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***File contains original tooth level summary DVs relating to tooth condition data.

*These summaries were used to create mouth level summary DVs for missing permanent teeth and
obvious decay experience (dentine decay).

*For tooth summary DVs used to create mouth level summaries for clinical decay experience,
sealants, crowns or traumatised surfaces see the "disaggregated" tooth summaries file.

missing values all() .

*2003 codes
0 'sound' 1 'unerrupted' 2 'extracted -caries' 3 'extracted - ortho'
4 'extracted - trauma' 5 'filled and decayed' 6 'tooth decayed-pulpal involvement' 7 ' tooth decayed'
8 'tooth filled - filling needs replacing' 9 'Tooth filled' 10 'sealed surface' 11'traumatised surface' 12 'crown advanced restoration'.

*2013 codes (revised so that restorations trump enamel caries).
*1 'sound' 2 'unerupted' 3 'extracted (ortho)'  4 'extracted (caries)' 5 'extracted (trauma)' 6 'enamel caries' 7 'filled and decayed'
  8 'decayed - pulpal involvement' 9 'visual/cavitated caries' 10 'filling needs replacement, no decay'
 11 'sound filling - no decay' 12 'obviously sealed surface' 13 'traumatised surface'  14 'crown or advanced restoration' .

***code individual teeth .

***tcur7 .
compute tcur7=999 .
if (ur7d=1 & ur7o=1 & ur7m=1 & ur7b=1 & ur7l=1) tcur7 = 1 .
if ur7d = 14 tcur7 = 2 .
if ur7d = 15 tcur7 = 3 .
if ur7d = 16 tcur7 = 4 .
if ur7d = 17 tcur7 = 5 .
if (any(2, ur7d, ur7o, ur7m, ur7b, ur7l) or any(3, ur7d, ur7o, ur7m, ur7b, ur7l)) tcur7 = 6 .
if any(13, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7 = 14 .
if any(12, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7 = 13 .
if any(11, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7 = 12 .
if any(9, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7 = 11 .
if any(10, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7 = 10 .
if (any(4, ur7d, ur7o, ur7m, ur7b, ur7l) or any(5, ur7d, ur7o, ur7m, ur7b, ur7l)) tcur7 = 9 .
if any(6, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7 = 8 .
if (any(7, ur7d, ur7o, ur7m, ur7b, ur7l) or any(8, ur7d, ur7o, ur7m, ur7b, ur7l)) tcur7 = 7 .
if tcur7 = 999 tcur7 = -9 .
var lab tcur7 'UR7 - summary (2013) ' .

***tcur6 .
compute tcur6=999 .
if (ur6d=1 & ur6o=1 & ur6m=1 & ur6b=1 & ur6l=1) tcur6 = 1 .
if ur6d = 14 tcur6 = 2 .
if ur6d = 15 tcur6 = 3 .
if ur6d = 16 tcur6 = 4 .
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if ur6d = 17 tcur6 = 5 .
if (any(2, ur6d, ur6o, ur6m, ur6b, ur6l) or any(3, ur6d, ur6o, ur6m, ur6b, ur6l)) tcur6 = 6 .
if any(13, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6 = 14 .
if any(12, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6 = 13 .
if any(11, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6 = 12 .
if any(9, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6 = 11 .
if any(10, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6 = 10 .
if (any(4, ur6d, ur6o, ur6m, ur6b, ur6l) or any(5, ur6d, ur6o, ur6m, ur6b, ur6l)) tcur6 = 9 .
if any(6, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6 = 8 .
if (any(7, ur6d, ur6o, ur6m, ur6b, ur6l) or any(8, ur6d, ur6o, ur6m, ur6b, ur6l)) tcur6 = 7 .
if tcur6 = 999 tcur6 = -9 .
var lab tcur6 'UR6 - summary (2013) ' .

***tcur5 permanent .
compute tcur5=999 .
if (ur5d=1 & ur5o=1 & ur5m=1 & ur5b=1 & ur5l=1) tcur5 = 1 .
if ur5d = 14 tcur5 = 2 .
if ur5d = 15 tcur5 = 3 .
if ur5d = 16 tcur5 = 4 .
if ur5d = 17 tcur5 = 5 .
if (any(2, ur5d, ur5o, ur5m, ur5b, ur5l) or any(3, ur5d, ur5o, ur5m, ur5b, ur5l)) tcur5 = 6 .
if any(13, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5 = 14 .
if any(12, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5 = 13 .
if any(11, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5 = 12 .
if any(9, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5 = 11 .
if any(10, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5 = 10 .
if (any(4, ur5d, ur5o, ur5m, ur5b, ur5l) or any(5, ur5d, ur5o, ur5m, ur5b, ur5l)) tcur5 = 9 .
if any(6, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5 = 8 .
if (any(7, ur5d, ur5o, ur5m, ur5b, ur5l) or any(8, ur5d, ur5o, ur5m, ur5b, ur5l)) tcur5 = 7 .
if ure5 = 2 tcur5 = -1 .
if ure5 = -9 tcur5 = -8 .
if tcur5 = 999 tcur5 = -9 .
var lab tcur5 'UR5 permanent - summary (2013) ' .

***tcur5 decid .
compute tcure=999 .
if (ur5d=1 & ur5o=1 & ur5m=1 & ur5b=1 & ur5l=1) tcure = 1 .
if (any(2, ur5d, ur5o, ur5m, ur5b, ur5l) or any(3, ur5d, ur5o, ur5m, ur5b, ur5l)) tcure = 6 .
if any(13, ur5d, ur5o, ur5m, ur5b, ur5l) tcure = 14 .
if any(12, ur5d, ur5o, ur5m, ur5b, ur5l) tcure = 13 .
if any(11, ur5d, ur5o, ur5m, ur5b, ur5l) tcure = 12 .
if any(9, ur5d, ur5o, ur5m, ur5b, ur5l) tcure = 11 .
if any(10, ur5d, ur5o, ur5m, ur5b, ur5l) tcure = 10 .
if (any(4, ur5d, ur5o, ur5m, ur5b, ur5l) or any(5, ur5d, ur5o, ur5m, ur5b, ur5l)) tcure = 9 .
if any(6, ur5d, ur5o, ur5m, ur5b, ur5l) tcure = 8 .
if (any(7, ur5d, ur5o, ur5m, ur5b, ur5l) or any(8, ur5d, ur5o, ur5m, ur5b, ur5l)) tcure = 7 .
if ure5 = 1 tcure = -1 .
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if ure5 = -9 tcure = -8 .
if tcure = 999 tcure = -9 .
var lab tcure 'UR5 deciduous - summary (2013) ' .

***tcur4 perm .
compute tcur4=999 .
if (ur4d=1 & ur4o=1 & ur4m=1 & ur4b=1 & ur4l=1) tcur4 = 1 .
if ur4d = 14 tcur4 = 2 .
if ur4d = 15 tcur4 = 3 .
if ur4d = 16 tcur4 = 4 .
if ur4d = 17 tcur4 = 5 .
if (any(2, ur4d, ur4o, ur4m, ur4b, ur4l) or any(3, ur4d, ur4o, ur4m, ur4b, ur4l)) tcur4 = 6 .
if any(13, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4 = 14 .
if any(12, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4 = 13 .
if any(11, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4 = 12 .
if any(9, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4 = 11 .
if any(10, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4 = 10 .
if (any(4, ur4d, ur4o, ur4m, ur4b, ur4l) or any(5, ur4d, ur4o, ur4m, ur4b, ur4l)) tcur4 = 9 .
if any(6, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4 = 8 .
if (any(7, ur4d, ur4o, ur4m, ur4b, ur4l) or any(8, ur4d, ur4o, ur4m, ur4b, ur4l)) tcur4 = 7 .
if urd4 = 2 tcur4 = -1 .
if urd4 = -9 tcur4 = -8 .
if tcur4 = 999 tcur4 = -9 .
var lab tcur4 'UR4 permanent - summary (2013) ' .

***tcur4 decid .
compute tcurd=999 .
if (ur4d=1 & ur4o=1 & ur4m=1 & ur4b=1 & ur4l=1) tcurd = 1 .
if (any(2, ur4d, ur4o, ur4m, ur4b, ur4l) or any(3, ur4d, ur4o, ur4m, ur4b, ur4l)) tcurd = 6 .
if any(13, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd = 14 .
if any(12, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd = 13 .
if any(11, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd = 12 .
if any(9, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd = 11 .
if any(10, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd = 10 .
if (any(4, ur4d, ur4o, ur4m, ur4b, ur4l) or any(5, ur4d, ur4o, ur4m, ur4b, ur4l)) tcurd = 9 .
if any(6, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd = 8 .
if (any(7, ur4d, ur4o, ur4m, ur4b, ur4l) or any(8, ur4d, ur4o, ur4m, ur4b, ur4l)) tcurd = 7 .
if urd4 = 1 tcurd = -1 .
if urd4 = -9 tcurd = -8 .
if tcurd = 999 tcurd = -9 .
var lab tcurd 'UR4 deciduous - summary (2013) ' .

***tcur3 perm .
compute tcur3=999 .
if (ur3d=1 & ur3m=1 & ur3b=1 & ur3l=1) tcur3 = 1 .
if ur3d = 14 tcur3 = 2 .
if ur3d = 15 tcur3 = 3 .
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if ur3d = 16 tcur3 = 4 .
if ur3d = 17 tcur3 = 5 .
if (any(2, ur3d, ur3m, ur3b, ur3l) or any(3, ur3d, ur3m, ur3b, ur3l)) tcur3 = 6 .
if any(13, ur3d, ur3m, ur3b, ur3l) tcur3 = 14 .
if any(12, ur3d, ur3m, ur3b, ur3l) tcur3 = 13 .
if any(11, ur3d, ur3m, ur3b, ur3l) tcur3 = 12 .
if any(9, ur3d, ur3m, ur3b, ur3l) tcur3 = 11 .
if any(10, ur3d, ur3m, ur3b, ur3l) tcur3 = 10 .
if (any(4, ur3d, ur3m, ur3b, ur3l) or any(5, ur3d, ur3m, ur3b, ur3l)) tcur3 = 9 .
if any(6, ur3d, ur3m, ur3b, ur3l) tcur3 = 8 .
if (any(7, ur3d, ur3m, ur3b, ur3l) or any(8, ur3d, ur3m, ur3b, ur3l)) tcur3 = 7 .
if urc3 = 2 tcur3 = -1 .
if urc3 = -9 tcur3 = -8 .
if tcur3 = 999 tcur3 = -9 .
var lab tcur3 'UR3 permanent - summary (2013) ' .

***tcur3 decid .
compute tcurc=999 .
if (ur3d=1 & ur3m=1 & ur3b=1 & ur3l=1) tcurc = 1 .
if (any(2, ur3d, ur3m, ur3b, ur3l) or any(3, ur3d, ur3m, ur3b, ur3l)) tcurc = 6 .
if any(13, ur3d, ur3m, ur3b, ur3l) tcurc = 14 .
if any(12, ur3d, ur3m, ur3b, ur3l) tcurc = 13 .
if any(11, ur3d, ur3m, ur3b, ur3l) tcurc = 12 .
if any(9, ur3d, ur3m, ur3b, ur3l) tcurc = 11 .
if any(10, ur3d, ur3m, ur3b, ur3l) tcurc = 10 .
if (any(4, ur3d, ur3m, ur3b, ur3l) or any(5, ur3d, ur3m, ur3b, ur3l)) tcurc = 9 .
if any(6, ur3d, ur3m, ur3b, ur3l) tcurc = 8 .
if (any(7, ur3d, ur3m, ur3b, ur3l) or any(8, ur3d, ur3m, ur3b, ur3l)) tcurc = 7 .
if urc3 = 1 tcurc = -1 .
if urc3 = -9 tcurc = -8 .
if tcurc = 999 tcurc = -9 .
var lab tcurc 'UR3 deciduous - summary (2013) ' .

***tcur2 perm .
compute tcur2=999 .
if (ur2d=1 & ur2m=1 & ur2b=1 & ur2l=1) tcur2 = 1 .
if ur2d = 14 tcur2 = 2 .
if ur2d = 15 tcur2 = 3 .
if ur2d = 16 tcur2 = 4 .
if ur2d = 17 tcur2 = 5 .
if (any(2, ur2d, ur2m, ur2b, ur2l) or any(3, ur2d, ur2m, ur2b, ur2l)) tcur2 = 6 .
if any(13, ur2d, ur2m, ur2b, ur2l) tcur2 = 14 .
if any(12, ur2d, ur2m, ur2b, ur2l) tcur2 = 13 .
if any(11, ur2d, ur2m, ur2b, ur2l) tcur2 = 12 .
if any(9, ur2d, ur2m, ur2b, ur2l) tcur2 = 11 .
if any(10, ur2d, ur2m, ur2b, ur2l) tcur2 = 10 .
if (any(4, ur2d, ur2m, ur2b, ur2l) or any(5, ur2d, ur2m, ur2b, ur2l)) tcur2 = 9 .
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if any(6, ur2d, ur2m, ur2b, ur2l) tcur2 = 8 .
if (any(7, ur2d, ur2m, ur2b, ur2l) or any(8, ur2d, ur2m, ur2b, ur2l)) tcur2 = 7 .
if urb2 = 2 tcur2 = -1 .
if urb2 = -9 tcur2 = -8 .
if tcur2 = 999 tcur2 = -9 .
var lab tcur2 'UR2 permanent - summary (2013) ' .

***tcur2 decid .
compute tcurb=999 .
if (ur2d=1 & ur2m=1 & ur2b=1 & ur2l=1) tcurb = 1 .
if (any(2, ur2d, ur2m, ur2b, ur2l) or any(3, ur2d, ur2m, ur2b, ur2l)) tcurb = 6 .
if any(13, ur2d, ur2m, ur2b, ur2l) tcurb = 14 .
if any(12, ur2d, ur2m, ur2b, ur2l) tcurb = 13 .
if any(11, ur2d, ur2m, ur2b, ur2l) tcurb = 12 .
if any(9, ur2d, ur2m, ur2b, ur2l) tcurb = 11 .
if any(10, ur2d, ur2m, ur2b, ur2l) tcurb = 10 .
if (any(4, ur2d, ur2m, ur2b, ur2l) or any(5, ur2d, ur2m, ur2b, ur2l)) tcurb = 9 .
if any(6, ur2d, ur2m, ur2b, ur2l) tcurb = 8 .
if (any(7, ur2d, ur2m, ur2b, ur2l) or any(8, ur2d, ur2m, ur2b, ur2l)) tcurb = 7 .
if urb2 = 1 tcurb = -1 .
if urb2 = -9 tcurb = -8 .
if tcurb = 999 tcurb = -9 .
var lab tcurb 'UR2 deciduous - summary (2013) ' .

***tcur1 perm .
compute tcur1=999 .
if (ur1d=1 & ur1m=1 & ur1b=1 & ur1l=1) tcur1 = 1 .
if ur1d = 14 tcur1 = 2 .
if ur1d = 15 tcur1 = 3 .
if ur1d = 16 tcur1 = 4 .
if ur1d = 17 tcur1 = 5 .
if (any(2, ur1d, ur1m, ur1b, ur1l) or any(3, ur1d, ur1m, ur1b, ur1l)) tcur1 = 6 .
if any(13, ur1d, ur1m, ur1b, ur1l) tcur1 = 14 .
if any(12, ur1d, ur1m, ur1b, ur1l) tcur1 = 13 .
if any(11, ur1d, ur1m, ur1b, ur1l) tcur1 = 12 .
if any(9, ur1d, ur1m, ur1b, ur1l) tcur1 = 11 .
if any(10, ur1d, ur1m, ur1b, ur1l) tcur1 = 10 .
if (any(4, ur1d, ur1m, ur1b, ur1l) or any(5, ur1d, ur1m, ur1b, ur1l)) tcur1 = 9 .
if any(6, ur1d, ur1m, ur1b, ur1l) tcur1 = 8 .
if (any(7, ur1d, ur1m, ur1b, ur1l) or any(8, ur1d, ur1m, ur1b, ur1l)) tcur1 = 7 .
if ura1 = 2 tcur1 = -1 .
if ura1 = -9 tcur1 = -8 .
if tcur1 = 999 tcur1 = -9 .
var lab tcur1 'UR1 permanent - summary (2013) ' .

***tcur1 decid .
compute tcura=999 .
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if (ur1d=1 & ur1m=1 & ur1b=1 & ur1l=1) tcura = 1 .
if (any(2, ur1d, ur1m, ur1b, ur1l) or any(3, ur1d, ur1m, ur1b, ur1l)) tcura = 6 .
if any(13, ur1d, ur1m, ur1b, ur1l) tcura = 14 .
if any(12, ur1d, ur1m, ur1b, ur1l) tcura = 13 .
if any(11, ur1d, ur1m, ur1b, ur1l) tcura = 12 .
if any(9, ur1d, ur1m, ur1b, ur1l) tcura = 11 .
if any(10, ur1d, ur1m, ur1b, ur1l) tcura = 10 .
if (any(4, ur1d, ur1m, ur1b, ur1l) or any(5, ur1d, ur1m, ur1b, ur1l)) tcura = 9 .
if any(6, ur1d, ur1m, ur1b, ur1l) tcura = 8 .
if (any(7, ur1d, ur1m, ur1b, ur1l) or any(8, ur1d, ur1m, ur1b, ur1l)) tcura = 7 .
if tcura = 999 tcura = -9 .
if ura1 = 1 tcura = -1 .
if ura1 = -9 tcura = -8 .
if tcura = 999 tcura = -9 .
var lab tcura 'UR1 deciduous - summary (2013) ' .

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***tcul1 perm .
compute tcul1=999 .
if (ul1d=1 & ul1m=1 & ul1b=1 & ul1l=1) tcul1 = 1 .
if ul1d = 14 tcul1 = 2 .
if ul1d = 15 tcul1 = 3 .
if ul1d = 16 tcul1 = 4 .
if ul1d = 17 tcul1 = 5 .
if (any(2, ul1d, ul1m, ul1b, ul1l) or any(3, ul1d, ul1m, ul1b, ul1l)) tcul1 = 6 .
if any(13, ul1d, ul1m, ul1b, ul1l) tcul1 = 14 .
if any(12, ul1d, ul1m, ul1b, ul1l) tcul1 = 13 .
if any(11, ul1d, ul1m, ul1b, ul1l) tcul1 = 12 .
if any(9, ul1d, ul1m, ul1b, ul1l) tcul1 = 11 .
if any(10, ul1d, ul1m, ul1b, ul1l) tcul1 = 10 .
if (any(4, ul1d, ul1m, ul1b, ul1l) or any(5, ul1d, ul1m, ul1b, ul1l)) tcul1 = 9 .
if any(6, ul1d, ul1m, ul1b, ul1l) tcul1 = 8 .
if (any(7, ul1d, ul1m, ul1b, ul1l) or any(8, ul1d, ul1m, ul1b, ul1l)) tcul1 = 7 .
if ula1 = 2 tcul1 = -1 .
if ula1 = -9 tcul1 = -8 .
if tcul1 = 999 tcul1 = -9 .
var lab tcul1 'UL1 permanent - summary (2013) ' .

***tcul1 decid .
compute tcula=999 .
if (ul1d=1 & ul1m=1 & ul1b=1 & ul1l=1) tcula = 1 .
if (any(2, ul1d, ul1m, ul1b, ul1l) or any(3, ul1d, ul1m, ul1b, ul1l)) tcula = 6 .
if any(13, ul1d, ul1m, ul1b, ul1l) tcula = 14 .
if any(12, ul1d, ul1m, ul1b, ul1l) tcula = 13 .
if any(11, ul1d, ul1m, ul1b, ul1l) tcula = 12 .
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if any(9, ul1d, ul1m, ul1b, ul1l) tcula = 11 .
if any(10, ul1d, ul1m, ul1b, ul1l) tcula = 10 .
if (any(4, ul1d, ul1m, ul1b, ul1l) or any(5, ul1d, ul1m, ul1b, ul1l)) tcula = 9 .
if any(6, ul1d, ul1m, ul1b, ul1l) tcula = 8 .
if (any(7, ul1d, ul1m, ul1b, ul1l) or any(8, ul1d, ul1m, ul1b, ul1l)) tcula = 7 .
if tcula = 999 tcula = -9 .
if ula1 = 1 tcula = -1 .
if ula1 = -9 tcula = -8 .
if tcula = 999 tcula = -9 .
var lab tcula 'UL1 deciduous - summary (2013) ' .

***tcul2 perm .
compute tcul2=999 .
if (ul2d=1 & ul2m=1 & ul2b=1 & ul2l=1) tcul2 = 1 .
if ul2d = 14 tcul2 = 2 .
if ul2d = 15 tcul2 = 3 .
if ul2d = 16 tcul2 = 4 .
if ul2d = 17 tcul2 = 5 .
if (any(2, ul2d, ul2m, ul2b, ul2l) or any(3, ul2d, ul2m, ul2b, ul2l)) tcul2 = 6 .
if any(13, ul2d, ul2m, ul2b, ul2l) tcul2 = 14 .
if any(12, ul2d, ul2m, ul2b, ul2l) tcul2 = 13 .
if any(11, ul2d, ul2m, ul2b, ul2l) tcul2 = 12 .
if any(9, ul2d, ul2m, ul2b, ul2l) tcul2 = 11 .
if any(10, ul2d, ul2m, ul2b, ul2l) tcul2 = 10 .
if (any(4, ul2d, ul2m, ul2b, ul2l) or any(5, ul2d, ul2m, ul2b, ul2l)) tcul2 = 9 .
if any(6, ul2d, ul2m, ul2b, ul2l) tcul2 = 8 .
if (any(7, ul2d, ul2m, ul2b, ul2l) or any(8, ul2d, ul2m, ul2b, ul2l)) tcul2 = 7 .
if ulb2 = 2 tcul2 = -1 .
if ulb2 = -9 tcul2 = -8 .
if tcul2 = 999 tcul2 = -9 .
var lab tcul2 'UL2 permanent - summary (2013) ' .

***tcul2 decid .
compute tculb=999 .
if (ul2d=1 & ul2m=1 & ul2b=1 & ul2l=1) tculb = 1 .
if (any(2, ul2d, ul2m, ul2b, ul2l) or any(3, ul2d, ul2m, ul2b, ul2l)) tculb = 6 .
if any(13, ul2d, ul2m, ul2b, ul2l) tculb = 14 .
if any(12, ul2d, ul2m, ul2b, ul2l) tculb = 13 .
if any(11, ul2d, ul2m, ul2b, ul2l) tculb = 12 .
if any(9, ul2d, ul2m, ul2b, ul2l) tculb = 11 .
if any(10, ul2d, ul2m, ul2b, ul2l) tculb = 10 .
if (any(4, ul2d, ul2m, ul2b, ul2l) or any(5, ul2d, ul2m, ul2b, ul2l)) tculb = 9 .
if any(6, ul2d, ul2m, ul2b, ul2l) tculb = 8 .
if (any(7, ul2d, ul2m, ul2b, ul2l) or any(8, ul2d, ul2m, ul2b, ul2l)) tculb = 7 .
if ulb2 = 1 tculb = -1 .
if ulb2 = -9 tculb = -8 .
if tculb = 999 tculb = -9 .
```

```
var lab tculb 'UL2 deciduous - summary (2013) ' .

***tcul3 perm .
compute tcul3=999 .
if (ul3d=1 & ul3m=1 & ul3b=1 & ul3l=1) tcul3 = 1 .
if ul3d = 14 tcul3 = 2 .
if ul3d = 15 tcul3 = 3 .
if ul3d = 16 tcul3 = 4 .
if ul3d = 17 tcul3 = 5 .
if (any(2, ul3d, ul3m, ul3b, ul3l) or any(3, ul3d, ul3m, ul3b, ul3l)) tcul3 = 6 .
if any(13, ul3d, ul3m, ul3b, ul3l) tcul3 = 14 .
if any(12, ul3d, ul3m, ul3b, ul3l) tcul3 = 13 .
if any(11, ul3d, ul3m, ul3b, ul3l) tcul3 = 12 .
if any(9, ul3d, ul3m, ul3b, ul3l) tcul3 = 11 .
if any(10, ul3d, ul3m, ul3b, ul3l) tcul3 = 10 .
if (any(4, ul3d, ul3m, ul3b, ul3l) or any(5, ul3d, ul3m, ul3b, ul3l)) tcul3 = 9 .
if any(6, ul3d, ul3m, ul3b, ul3l) tcul3 = 8 .
if (any(7, ul3d, ul3m, ul3b, ul3l) or any(8, ul3d, ul3m, ul3b, ul3l)) tcul3 = 7 .
if ulc3 = 2 tcul3 = -1 .
if ulc3 = -9 tcul3 = -8 .
if tcul3 = 999 tcul3 = -9 .
var lab tcul3 'UL3 permanent - summary (2013) ' .

***tcul3 decid .
compute tculc=999 .
if (ul3d=1 & ul3m=1 & ul3b=1 & ul3l=1) tculc = 1 .
if (any(2, ul3d, ul3m, ul3b, ul3l) or any(3, ul3d, ul3m, ul3b, ul3l)) tculc = 6 .
if any(13, ul3d, ul3m, ul3b, ul3l) tculc = 14 .
if any(12, ul3d, ul3m, ul3b, ul3l) tculc = 13 .
if any(11, ul3d, ul3m, ul3b, ul3l) tculc = 12 .
if any(9, ul3d, ul3m, ul3b, ul3l) tculc = 11 .
if any(10, ul3d, ul3m, ul3b, ul3l) tculc = 10 .
if (any(4, ul3d, ul3m, ul3b, ul3l) or any(5, ul3d, ul3m, ul3b, ul3l)) tculc = 9 .
if any(6, ul3d, ul3m, ul3b, ul3l) tculc = 8 .
if (any(7, ul3d, ul3m, ul3b, ul3l) or any(8, ul3d, ul3m, ul3b, ul3l)) tculc = 7 .
if ulc3 = 1 tculc = -1 .
if ulc3 = -9 tculc = -8 .
if tculc = 999 tculc = -9 .
var lab tculc 'UL3 deciduous - summary (2013) ' .

***tcul4 perm .
compute tcul4=999 .
if (ul4d=1 & ul4o=1 & ul4m=1 & ul4b=1 & ul4l=1) tcul4 = 1 .
if ul4d = 14 tcul4 = 2 .
if ul4d = 15 tcul4 = 3 .
if ul4d = 16 tcul4 = 4 .
if ul4d = 17 tcul4 = 5 .
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```
if (any(2, ul4d, ul4o, ul4m, ul4b, ul4l) or any(3, ul4d, ul4o, ul4m, ul4b, ul4l)) tcul4 = 6 .
if any(13, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4 = 14 .
if any(12, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4 = 13 .
if any(11, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4 = 12 .
if any(9, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4 = 11 .
if any(10, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4 = 10 .
if (any(4, ul4d, ul4o, ul4m, ul4b, ul4l) or any(5, ul4d, ul4o, ul4m, ul4b, ul4l)) tcul4 = 9 .
if any(6, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4 = 8 .
if (any(7, ul4d, ul4o, ul4m, ul4b, ul4l) or any(8, ul4d, ul4o, ul4m, ul4b, ul4l)) tcul4 = 7 .
if uld4 = 2 tcul4 = -1 .
if uld4 = -9 tcul4 = -8 .
if tcul4 = 999 tcul4 = -9 .
var lab tcul4 'UL4 permanent - summary (2013) ' .

***tcul4 decid .
compute tculd=999 .
if (ul4d=1 & ul4o=1 & ul4m=1 & ul4b=1 & ul4l=1) tculd = 1 .
if (any(2, ul4d, ul4o, ul4m, ul4b, ul4l) or any(3, ul4d, ul4o, ul4m, ul4b, ul4l)) tculd = 6 .
if any(13, ul4d, ul4o, ul4m, ul4b, ul4l) tculd = 14 .
if any(12, ul4d, ul4o, ul4m, ul4b, ul4l) tculd = 13 .
if any(11, ul4d, ul4o, ul4m, ul4b, ul4l) tculd = 12 .
if any(9, ul4d, ul4o, ul4m, ul4b, ul4l) tculd = 11 .
if any(10, ul4d, ul4o, ul4m, ul4b, ul4l) tculd = 10 .
if (any(4, ul4d, ul4o, ul4m, ul4b, ul4l) or any(5, ul4d, ul4o, ul4m, ul4b, ul4l)) tculd = 9 .
if any(6, ul4d, ul4o, ul4m, ul4b, ul4l) tculd = 8 .
if (any(7, ul4d, ul4o, ul4m, ul4b, ul4l) or any(8, ul4d, ul4o, ul4m, ul4b, ul4l)) tculd = 7 .
if uld4 = 1 tculd = -1 .
if uld4 = -9 tculd = -8 .
if tculd = 999 tculd = -9 .
var lab tculd 'UL4 deciduous - summary (2013) ' .

***tcul5 permanent .
compute tcul5=999 .
if (ul5d=1 & ul5o=1 & ul5m=1 & ul5b=1 & ul5l=1) tcul5 = 1 .
if ul5d = 14 tcul5 = 2 .
if ul5d = 15 tcul5 = 3 .
if ul5d = 16 tcul5 = 4 .
if ul5d = 17 tcul5 = 5 .
if (any(2, ul5d, ul5o, ul5m, ul5b, ul5l) or any(3, ul5d, ul5o, ul5m, ul5b, ul5l)) tcul5 = 6 .
if any(13, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5 = 14 .
if any(12, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5 = 13 .
if any(11, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5 = 12 .
if any(9, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5 = 11 .
if any(10, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5 = 10 .
if (any(4, ul5d, ul5o, ul5m, ul5b, ul5l) or any(5, ul5d, ul5o, ul5m, ul5b, ul5l)) tcul5 = 9 .
if any(6, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5 = 8 .
if (any(7, ul5d, ul5o, ul5m, ul5b, ul5l) or any(8, ul5d, ul5o, ul5m, ul5b, ul5l)) tcul5 = 7 .
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if ule5 = 2 tcul5 = -1 .
if ule5 = -9 tcul5 = -8 .
if tcul5 = 999 tcul5 = -9 .
var lab tcul5 'UL5 permanent - summary (2013) ' .

***tcul5 decid .
compute tcule=999 .
if (ul5d=1 & ul5o=1 & ul5m=1 & ul5b=1 & ul5l=1) tcule = 1 .
if any(13, ul5d, ul5o, ul5m, ul5b, ul5l) tcule = 14 .
if (any(2, ul5d, ul5o, ul5m, ul5b, ul5l) or any(3, ul5d, ul5o, ul5m, ul5b, ul5l)) tcule = 6 .
if any(12, ul5d, ul5o, ul5m, ul5b, ul5l) tcule = 13 .
if any(11, ul5d, ul5o, ul5m, ul5b, ul5l) tcule = 12 .
if any(9, ul5d, ul5o, ul5m, ul5b, ul5l) tcule = 11 .
if any(10, ul5d, ul5o, ul5m, ul5b, ul5l) tcule = 10 .
if (any(4, ul5d, ul5o, ul5m, ul5b, ul5l) or any(5, ul5d, ul5o, ul5m, ul5b, ul5l)) tcule = 9 .
if any(6, ul5d, ul5o, ul5m, ul5b, ul5l) tcule = 8 .
if (any(7, ul5d, ul5o, ul5m, ul5b, ul5l) or any(8, ul5d, ul5o, ul5m, ul5b, ul5l)) tcule = 7 .
if ule5 = 1 tcule = -1 .
if ule5 = -9 tcule = -8 .
if tcule = 999 tcule = -9 .
var lab tcule 'UL5 deciduous - summary (2013) ' .

***tcul6 .
compute tcul6=999 .
if (ul6d=1 & ul6o=1 & ul6m=1 & ul6b=1 & ul6l=1) tcul6 = 1 .
if ul6d = 14 tcul6 = 2 .
if ul6d = 15 tcul6 = 3 .
if ul6d = 16 tcul6 = 4 .
if ul6d = 17 tcul6 = 5 .
if (any(2, ul6d, ul6o, ul6m, ul6b, ul6l) or any(3, ul6d, ul6o, ul6m, ul6b, ul6l)) tcul6 = 6 .
if any(13, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6 = 14 .
if any(12, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6 = 13 .
if any(11, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6 = 12 .
if any(9, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6 = 11 .
if any(10, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6 = 10 .
if (any(4, ul6d, ul6o, ul6m, ul6b, ul6l) or any(5, ul6d, ul6o, ul6m, ul6b, ul6l)) tcul6 = 9 .
if any(6, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6 = 8 .
if (any(7, ul6d, ul6o, ul6m, ul6b, ul6l) or any(8, ul6d, ul6o, ul6m, ul6b, ul6l)) tcul6 = 7 .
if tcul6 = 999 tcul6 = -9 .
var lab tcul6 'UL6 - summary (2013) ' .

***tcul7 .
compute tcul7=999 .
if (ul7d=1 & ul7o=1 & ul7m=1 & ul7b=1 & ul7l=1) tcul7 = 1 .
if ul7d = 14 tcul7 = 2 .
if ul7d = 15 tcul7 = 3 .
if ul7d = 16 tcul7 = 4 .
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if ul7d = 17 tcul7 = 5 .
if (any(2, ul7d, ul7o, ul7m, ul7b, ul7l) or any(3, ul7d, ul7o, ul7m, ul7b, ul7l)) tcul7 = 6 .
if any(13, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7 = 14 .
if any(12, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7 = 13 .
if any(11, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7 = 12 .
if any(9, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7 = 11 .
if any(10, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7 = 10 .
if (any(4, ul7d, ul7o, ul7m, ul7b, ul7l) or any(5, ul7d, ul7o, ul7m, ul7b, ul7l)) tcul7 = 9 .
if any(6, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7 = 8 .
if (any(7, ul7d, ul7o, ul7m, ul7b, ul7l) or any(8, ul7d, ul7o, ul7m, ul7b, ul7l)) tcul7 = 7 .
if tcul7 = 999 tcul7 = -9 .
var lab tcul7 'UL7 - summary (2013) ' .


*temp.
*select if tcur6 = 999 .
*list serial ur6d to ur6l .

val lab tcur7 to tcul7 -9 'Not coded' -8 'Tooth type not coded' -1 'Not applicable'
1 'sound' 2 'unerupted' 3 'extracted (ortho)'  4 'extracted (caries)'
  5 'extracted (trauma)' 6 'enamel caries' 7 'filled and decayed' 8 'decayed - pulpal involvement'
  9 'visual/cavitated caries'   10 'filling needs replacement, no decay' 11 'sound filling - no decay'
 12 'obviously sealed surface' 13 'traumatised surface'  14 'crown or advanced restoration' .

fre tcur7 to tcul7 .
```

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*Liz Fuller/Dan Philo.
*----------.
*2013 disaggregated (revised so that restorations trump enamel caries).

*101 'sound' 102 'unerupted' 103 'extracted (ortho)'  104 'extracted (caries)' 105 'extracted (trauma)'
 106 'enamel caries (non cavitated)' 107 'enamel caries (cavitated)'
 108 'caries into dentine (visual)' 109 'caries into dentine (cavitated)' 110 'caries, pulpal involvement'
 111 'filled with recurrent decay (no visual cavitation)' 112 'filled with recurrent decay (visual cavitation)'
 113 'filling needs replacement, no decay'  114 'sound filling - no decay'
 115 'obviously sealed surface' 116 'traumatised surface'  117 'crown or advanced restoration' .


*----------.
***code individual teeth .

*----------.
*Upper right.
FRE ur7d ur7o ur7m ur7b ur7l.


***tcur7d .
compute tcur7d=999 .
*all surfaces sound .
if (ur7d=1 & ur7o=1 & ur7m=1 & ur7b=1 & ur7l=1) tcur7d = 101 .
*missing teeth .
if ur7d = 14 tcur7d = 102 .
if ur7d = 15 tcur7d = 103 .
if ur7d = 16 tcur7d = 104 .
if ur7d = 17 tcur7d = 105 .
*sealed surface, otherwise sound .
if any(11, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 116 .
if any(13, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 117 .
*enamel caries .
if any(2, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 106 .
if any(3, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 107 .
*sound fillings, then broken fillings .
if any(9, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 114 .
if any(10, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 113 .
*caries into dentine.
if any(4, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 108 .
if any(5, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 109 .
*pulpal involvement .
if any(6, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 110 .
*filled, recurrent .
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if any(7, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 111 .
if any(8, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7d = 112 .
*missing .
if tcur7d = 999 tcur7d = -9 .
var lab tcur7d 'UR7 - disaggregated summary (2013) ' .


***tcur6d .
compute tcur6d=999 .
*all surfaces sound .
if (ur6d=1 & ur6o=1 & ur6m=1 & ur6b=1 & ur6l=1) tcur6d = 101 .
*missing teeth .
if ur6d = 14 tcur6d = 102 .
if ur6d = 15 tcur6d = 103 .
if ur6d = 16 tcur6d = 104 .
if ur6d = 17 tcur6d = 105 .
*sealed surface, otherwise sound .
if any(11, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 116 .
if any(13, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 117 .
*enamel caries .
if any(2, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 106 .
if any(3, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 107 .
*sound fillings, then broken fillings .
if any(9, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 114 .
if any(10, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 113 .
*caries into dentine.
if any(4, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 108 .
if any(5, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 109 .
*pulpal involvement .
if any(6, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 110 .
*filled, recurrent .
if any(7, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 111 .
if any(8, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6d = 112 .
*missing .
if tcur6d = 999 tcur6d = -9 .
var lab tcur6d 'UR6 - disaggregated summary (2013) ' .


***tcur5d permanent ..
compute tcur5d=999 .
*all surfaces sound .
if (ur5d=1 & ur5o=1 & ur5m=1 & ur5b=1 & ur5l=1) tcur5d = 101 .
*missing teeth .
if ur5d = 14 tcur5d = 102 .
if ur5d = 15 tcur5d = 103 .
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if ur5d = 16 tcur5d = 104 .
if ur5d = 17 tcur5d = 105 .
*sealed surface, otherwise sound .
if any(11, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 116 .
if any(13, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 117 .
*enamel caries .
if any(2, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 106 .
if any(3, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 107 .
*sound fillings, then broken fillings .
if any(9, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 114 .
if any(10, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 113 .
*caries into dentine.
if any(4, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 108 .
if any(5, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 109 .
*pulpal involvement .
if any(6, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 110 .
*filled, recurrent .
if any(7, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 111 .
if any(8, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5d = 112 .
*missing .
if ure5 = 2 tcur5d = -1 .
if ure5 = -9 tcur5d = -8 .
if tcur5d = 999 tcur5d = -9 .
var lab tcur5d 'UR5 permanent - disaggregated summary (2013) ' .


***tcured ur5 - decid .
compute tcured=999 .
*all surfaces sound .
if (ur5d=1 & ur5o=1 & ur5m=1 & ur5b=1 & ur5l=1) tcured = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 116 .
if any(13, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 117 .
*enamel caries .
if any(2, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 106 .
if any(3, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 107 .
*sound fillings, then broken fillings .
if any(9, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 114 .
if any(10, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 113 .
*caries into dentine.
if any(4, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 108 .
if any(5, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 109 .
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*pulpal involvement .
if any(6, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 110 .
*filled, recurrent .
if any(7, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 111 .
if any(8, ur5d, ur5o, ur5m, ur5b, ur5l) tcured = 112 .
*missing .
if ure5 = 1 tcured = -1 .
if ure5 = -9 tcured = -8 .
if tcured = 999 tcured = -9 .
var lab tcured 'UR5 deciduous - disaggregated summary (2013) ' .


***tcur4d permanent .
compute tcur4d=999 .
*all surfaces sound .
if (ur4d=1 & ur4o=1 & ur4m=1 & ur4b=1 & ur4l=1) tcur4d = 101 .
*missing teeth .
if ur4d = 14 tcur4d = 102 .
if ur4d = 15 tcur4d = 103 .
if ur4d = 16 tcur4d = 104 .
if ur4d = 17 tcur4d = 105 .
*sealed surface, otherwise sound .
if any(11, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 116 .
if any(13, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 117 .
*enamel caries .
if any(2, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 106 .
if any(3, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 107 .
*sound fillings, then broken fillings .
if any(9, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 114 .
if any(10, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 113 .
*caries into dentine.
if any(4, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 108 .
if any(5, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 109 .
*pulpal involvement .
if any(6, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 110 .
*filled, recurrent .
if any(7, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 111 .
if any(8, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4d = 112 .
*missing .
if urd4 = 2 tcur4d = -1 .
if urd4 = -9 tcur4d = -8 .
if tcur4d = 999 tcur4d = -9 .
var lab tcur4d 'UR4 permanent - disaggregated summary (2013) ' .
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```
***tcurdd - ur4 decid.
compute tcurdd=999 .
*all surfaces sound .
if (ur4d=1 & ur4o=1 & ur4m=1 & ur4b=1 & ur4l=1) tcurdd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 116 .
if any(13, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 117 .
*enamel caries .
if any(2, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 106 .
if any(3, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 107 .
*sound fillings, then broken fillings .
if any(9, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 114 .
if any(10, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 113 .
*caries into dentine.
if any(4, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 108 .
if any(5, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 109 .
*pulpal involvement .
if any(6, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 110 .
*filled, recurrent .
if any(7, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 111 .
if any(8, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdd = 112 .
*missing .
if urd4 = 1 tcurdd = -1 .
if urd4 = -9 tcurdd = -8 .
if tcurdd = 999 tcurdd = -9 .
var lab tcurdd 'UR4 deciduous - disaggregated summary (2013) ' .


***tcur3d - permanent .
compute tcur3d=999 .
*all surfaces sound .
if (ur3d=1 & ur3m=1 & ur3b=1 & ur3l=1) tcur3d = 101 .
*missing teeth .
if ur3d = 14 tcur3d = 102 .
if ur3d = 15 tcur3d = 103 .
if ur3d = 16 tcur3d = 104 .
if ur3d = 17 tcur3d = 105 .
*sealed surface, otherwise sound .
if any(11, ur3d, ur3m, ur3b, ur3l) tcur3d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur3d, ur3m, ur3b, ur3l) tcur3d = 116 .
if any(13, ur3d, ur3m, ur3b, ur3l) tcur3d = 117 .
*enamel caries .
if any(2, ur3d, ur3m, ur3b, ur3l) tcur3d = 106 .
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if any(3, ur3d, ur3m, ur3b, ur3l) tcur3d = 107 .
*sound fillings, then broken fillings .
if any(9, ur3d, ur3m, ur3b, ur3l) tcur3d = 114 .
if any(10, ur3d, ur3m, ur3b, ur3l) tcur3d = 113 .
*caries into dentine.
if any(4, ur3d, ur3m, ur3b, ur3l) tcur3d = 108 .
if any(5, ur3d, ur3m, ur3b, ur3l) tcur3d = 109 .
*pulpal involvement .
if any(6, ur3d, ur3m, ur3b, ur3l) tcur3d = 110 .
*filled, recurrent .
if any(7, ur3d, ur3m, ur3b, ur3l) tcur3d = 111 .
if any(8, ur3d, ur3m, ur3b, ur3l) tcur3d = 112 .
*missing .
if urc3 = 2 tcur3d = -1 .
if urc3 = -9 tcur3d = -8 .
if tcur3d = 999 tcur3d = -9 .
var lab tcur3d 'UR3 permanent - disaggregated summary (2013) ' .


***tcurcd - ur3 deciduous .
compute tcurcd=999 .
*all surfaces sound .
if (ur3d=1 & ur3m=1 & ur3b=1 & ur3l=1) tcurcd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ur3d, ur3m, ur3b, ur3l) tcurcd = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur3d, ur3m, ur3b, ur3l) tcurcd = 116 .
if any(13, ur3d, ur3m, ur3b, ur3l) tcurcd = 117 .
*enamel caries .
if any(2, ur3d, ur3m, ur3b, ur3l) tcurcd = 106 .
if any(3, ur3d, ur3m, ur3b, ur3l) tcurcd = 107 .
*sound fillings, then broken fillings .
if any(9, ur3d, ur3m, ur3b, ur3l) tcurcd = 114 .
if any(10, ur3d, ur3m, ur3b, ur3l) tcurcd = 113 .
*caries into dentine.
if any(4, ur3d, ur3m, ur3b, ur3l) tcurcd = 108 .
if any(5, ur3d, ur3m, ur3b, ur3l) tcurcd = 109 .
*pulpal involvement .
if any(6, ur3d, ur3m, ur3b, ur3l) tcurcd = 110 .
*filled, recurrent .
if any(7, ur3d, ur3m, ur3b, ur3l) tcurcd = 111 .
if any(8, ur3d, ur3m, ur3b, ur3l) tcurcd = 112 .
*missing .
if urc3 = 1 tcurcd = -1 .
if urc3 = -9 tcurcd = -8 .
if tcurcd = 999 tcurcd = -9 .
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var lab tcurcd 'UR3 deciduous - disaggregated summary (2013) ' .


***tcur2d - permanent .
compute tcur2d=999 .
*all surfaces sound .
if (ur2d=1 & ur2m=1 & ur2b=1 & ur2l=1) tcur2d = 101 .
*missing teeth .
if ur2d = 14 tcur2d = 102 .
if ur2d = 15 tcur2d = 103 .
if ur2d = 16 tcur2d = 104 .
if ur2d = 17 tcur2d = 105 .
*sealed surface, otherwise sound .
if any(11, ur2d, ur2m, ur2b, ur2l) tcur2d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur2d, ur2m, ur2b, ur2l) tcur2d = 116 .
if any(13, ur2d, ur2m, ur2b, ur2l) tcur2d = 117 .
*enamel caries .
if any(2, ur2d, ur2m, ur2b, ur2l) tcur2d = 106 .
if any(3, ur2d, ur2m, ur2b, ur2l) tcur2d = 107 .
*sound fillings, then broken fillings .
if any(9, ur2d, ur2m, ur2b, ur2l) tcur2d = 114 .
if any(10, ur2d, ur2m, ur2b, ur2l) tcur2d = 113 .
*caries into dentine.
if any(4, ur2d, ur2m, ur2b, ur2l) tcur2d = 108 .
if any(5, ur2d, ur2m, ur2b, ur2l) tcur2d = 109 .
*pulpal involvement .
if any(6, ur2d, ur2m, ur2b, ur2l) tcur2d = 110 .
*filled, recurrent .
if any(7, ur2d, ur2m, ur2b, ur2l) tcur2d = 111 .
if any(8, ur2d, ur2m, ur2b, ur2l) tcur2d = 112 .
*missing .
if urb2 = 2 tcur2d = -1 .
if urb2 = -9 tcur2d = -8 .
if tcur2d = 999 tcur2d = -9 .
var lab tcur2d 'UR2 permanent - disaggregated summary (2013) ' .



***tcurbd -  ur2 deciduous .
compute tcurbd=999 .
*all surfaces sound .
if (ur2d=1 & ur2m=1 & ur2b=1 & ur2l=1) tcurbd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ur2d, ur2m, ur2b, ur2l) tcurbd = 115 .
*trauma, trumped by advanced restoration .
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if any(12, ur2d, ur2m, ur2b, ur2l) tcurbd = 116 .
if any(13, ur2d, ur2m, ur2b, ur2l) tcurbd = 117 .
*enamel caries .
if any(2, ur2d, ur2m, ur2b, ur2l) tcurbd = 106 .
if any(3, ur2d, ur2m, ur2b, ur2l) tcurbd = 107 .
*sound fillings, then broken fillings .
if any(9, ur2d, ur2m, ur2b, ur2l) tcurbd = 114 .
if any(10, ur2d, ur2m, ur2b, ur2l) tcurbd = 113 .
*caries into dentine.
if any(4, ur2d, ur2m, ur2b, ur2l) tcurbd = 108 .
if any(5, ur2d, ur2m, ur2b, ur2l) tcurbd = 109 .
*pulpal involvement .
if any(6, ur2d, ur2m, ur2b, ur2l) tcurbd = 110 .
*filled, recurrent .
if any(7, ur2d, ur2m, ur2b, ur2l) tcurbd = 111 .
if any(8, ur2d, ur2m, ur2b, ur2l) tcurbd = 112 .
*missing .
if urb2 = 1 tcurbd = -1 .
if urb2 = -9 tcurbd = -8 .
if tcurbd = 999 tcurbd = -9 .
var lab tcurbd 'UR2 deciduous - disaggregated summary (2013) ' .


***tcur1d - permanent .
compute tcur1d=999 .
*all surfaces sound .
if (ur1d=1 & ur1m=1 & ur1b=1 & ur1l=1) tcur1d = 101 .
*missing teeth .
if ur1d = 14 tcur1d = 102 .
if ur1d = 15 tcur1d = 103 .
if ur1d = 16 tcur1d = 104 .
if ur1d = 17 tcur1d = 105 .
*sealed surface, otherwise sound .
if any(11, ur1d, ur1m, ur1b, ur1l) tcur1d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur1d, ur1m, ur1b, ur1l) tcur1d = 116 .
if any(13, ur1d, ur1m, ur1b, ur1l) tcur1d = 117 .
*enamel caries .
if any(2, ur1d, ur1m, ur1b, ur1l) tcur1d = 106 .
if any(3, ur1d, ur1m, ur1b, ur1l) tcur1d = 107 .
*sound fillings, then broken fillings .
if any(9, ur1d, ur1m, ur1b, ur1l) tcur1d = 114 .
if any(10, ur1d, ur1m, ur1b, ur1l) tcur1d = 113 .
*caries into dentine.
if any(4, ur1d, ur1m, ur1b, ur1l) tcur1d = 108 .
if any(5, ur1d, ur1m, ur1b, ur1l) tcur1d = 109 .
*pulpal involvement .
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if any(6, ur1d, ur1m, ur1b, ur1l) tcur1d = 110 .
*filled, recurrent .
if any(7, ur1d, ur1m, ur1b, ur1l) tcur1d = 111 .
if any(8, ur1d, ur1m, ur1b, ur1l) tcur1d = 112 .
*missing .
if ura1 = 2 tcur1d = -1 .
if ura1 = -9 tcur1d = -8 .
if tcur1d = 999 tcur1d = -9 .
var lab tcur1d 'UR1 permanent - disaggregated summary (2013) ' .


***tcurad - ur1 deciduous .
compute tcurad=999 .
*all surfaces sound .
if (ur1d=1 & ur1m=1 & ur1b=1 & ur1l=1) tcurad = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ur1d, ur1m, ur1b, ur1l) tcurad = 115 .
*trauma, trumped by advanced restoration .
if any(12, ur1d, ur1m, ur1b, ur1l) tcurad = 116 .
if any(13, ur1d, ur1m, ur1b, ur1l) tcurad = 117 .
*enamel caries .
if any(2, ur1d, ur1m, ur1b, ur1l) tcurad = 106 .
if any(3, ur1d, ur1m, ur1b, ur1l) tcurad = 107 .
*sound fillings, then broken fillings .
if any(9, ur1d, ur1m, ur1b, ur1l) tcurad = 114 .
if any(10, ur1d, ur1m, ur1b, ur1l) tcurad = 113 .
*caries into dentine.
if any(4, ur1d, ur1m, ur1b, ur1l) tcurad = 108 .
if any(5, ur1d, ur1m, ur1b, ur1l) tcurad = 109 .
*pulpal involvement .
if any(6, ur1d, ur1m, ur1b, ur1l) tcurad = 110 .
*filled, recurrent .
if any(7, ur1d, ur1m, ur1b, ur1l) tcurad = 111 .
if any(8, ur1d, ur1m, ur1b, ur1l) tcurad = 112 .
*missing .
if ura1 = 1 tcurad = -1 .
if ura1 = -9 tcurad = -8 .
if tcurad = 999 tcurad = -9 .
var lab tcurad 'UR1 deciduous - disaggregated summary (2013) ' .


*----------.
*Upper left.

***tcul1d - permanent .
compute tcul1d=999 .
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*all surfaces sound .
if (ul1d=1 & ul1m=1 & ul1b=1 & ul1l=1) tcul1d = 101 .
*missing teeth .
if ul1d = 14 tcul1d = 102 .
if ul1d = 15 tcul1d = 103 .
if ul1d = 16 tcul1d = 104 .
if ul1d = 17 tcul1d = 105 .
*sealed surface, otherwise sound .
if any(11, ul1d, ul1m, ul1b, ul1l) tcul1d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul1d, ul1m, ul1b, ul1l) tcul1d = 116 .
if any(13, ul1d, ul1m, ul1b, ul1l) tcul1d = 117 .
*enamel caries .
if any(2, ul1d, ul1m, ul1b, ul1l) tcul1d = 106 .
if any(3, ul1d, ul1m, ul1b, ul1l) tcul1d = 107 .
*sound fillings, then broken fillings .
if any(9, ul1d, ul1m, ul1b, ul1l) tcul1d = 114 .
if any(10, ul1d, ul1m, ul1b, ul1l) tcul1d = 113 .
*caries into dentine.
if any(4, ul1d, ul1m, ul1b, ul1l) tcul1d = 108 .
if any(5, ul1d, ul1m, ul1b, ul1l) tcul1d = 109 .
*pulpal involvement .
if any(6, ul1d, ul1m, ul1b, ul1l) tcul1d = 110 .
*filled, recurrent .
if any(7, ul1d, ul1m, ul1b, ul1l) tcul1d = 111 .
if any(8, ul1d, ul1m, ul1b, ul1l) tcul1d = 112 .
*missing .
if ula1 = 2 tcul1d = -1 .
if ula1 = -9 tcul1d = -8 .
if tcul1d = 999 tcul1d = -9 .
var lab tcul1d 'UL1 permanent - disaggregated summary (2013) ' .


***tculad - ul1 deciduous .
compute tculad=999 .
*all surfaces sound .
if (ul1d=1 & ul1m=1 & ul1b=1 & ul1l=1) tculad = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ul1d, ul1m, ul1b, ul1l) tculad = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul1d, ul1m, ul1b, ul1l) tculad = 116 .
if any(13, ul1d, ul1m, ul1b, ul1l) tculad = 117 .
*enamel caries .
if any(2, ul1d, ul1m, ul1b, ul1l) tculad = 106 .
if any(3, ul1d, ul1m, ul1b, ul1l) tculad = 107 .
*sound fillings, then broken fillings .
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if any(9, ul1d, ul1m, ul1b, ul1l) tculad = 114 .
if any(10, ul1d, ul1m, ul1b, ul1l) tculad = 113 .
*caries into dentine.
if any(4, ul1d, ul1m, ul1b, ul1l) tculad = 108 .
if any(5, ul1d, ul1m, ul1b, ul1l) tculad = 109 .
*pulpal involvement .
if any(6, ul1d, ul1m, ul1b, ul1l) tculad = 110 .
*filled, recurrent .
if any(7, ul1d, ul1m, ul1b, ul1l) tculad = 111 .
if any(8, ul1d, ul1m, ul1b, ul1l) tculad = 112 .
*missing .
if ula1 = 1 tculad = -1 .
if ula1 = -9 tculad = -8 .
if tculad = 999 tculad = -9 .
var lab tculad 'UL1 deciduous - disaggregated summary (2013) ' .


***tcul2d - permanent .
compute tcul2d=999 .
*all surfaces sound .
if (ul2d=1 & ul2m=1 & ul2b=1 & ul2l=1) tcul2d = 101 .
*missing teeth .
if ul2d = 14 tcul2d = 102 .
if ul2d = 15 tcul2d = 103 .
if ul2d = 16 tcul2d = 104 .
if ul2d = 17 tcul2d = 105 .
*sealed surface, otherwise sound .
if any(11, ul2d, ul2m, ul2b, ul2l) tcul2d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul2d, ul2m, ul2b, ul2l) tcul2d = 116 .
if any(13, ul2d, ul2m, ul2b, ul2l) tcul2d = 117 .
*enamel caries .
if any(2, ul2d, ul2m, ul2b, ul2l) tcul2d = 106 .
if any(3, ul2d, ul2m, ul2b, ul2l) tcul2d = 107 .
*sound fillings, then broken fillings .
if any(9, ul2d, ul2m, ul2b, ul2l) tcul2d = 114 .
if any(10, ul2d, ul2m, ul2b, ul2l) tcul2d = 113 .
*caries into dentine.
if any(4, ul2d, ul2m, ul2b, ul2l) tcul2d = 108 .
if any(5, ul2d, ul2m, ul2b, ul2l) tcul2d = 109 .
*pulpal involvement .
if any(6, ul2d, ul2m, ul2b, ul2l) tcul2d = 110 .
*filled, recurrent .
if any(7, ul2d, ul2m, ul2b, ul2l) tcul2d = 111 .
if any(8, ul2d, ul2m, ul2b, ul2l) tcul2d = 112 .
*missing .
if ulb2 = 2 tcul2d = -1 .
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if ulb2 = -9 tcul2d = -8 .
if tcul2d = 999 tcul2d = -9 .
var lab tcul2d 'UL2 permanent - disaggregated summary (2013) ' .


***tculbd -  ul2 deciduous .
compute tculbd=999 .
*all surfaces sound .
if (ul2d=1 & ul2m=1 & ul2b=1 & ul2l=1) tculbd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ul2d, ul2m, ul2b, ul2l) tculbd = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul2d, ul2m, ul2b, ul2l) tculbd = 116 .
if any(13, ul2d, ul2m, ul2b, ul2l) tculbd = 117 .
*enamel caries .
if any(2, ul2d, ul2m, ul2b, ul2l) tculbd = 106 .
if any(3, ul2d, ul2m, ul2b, ul2l) tculbd = 107 .
*sound fillings, then broken fillings .
if any(9, ul2d, ul2m, ul2b, ul2l) tculbd = 114 .
if any(10, ul2d, ul2m, ul2b, ul2l) tculbd = 113 .
*caries into dentine.
if any(4, ul2d, ul2m, ul2b, ul2l) tculbd = 108 .
if any(5, ul2d, ul2m, ul2b, ul2l) tculbd = 109 .
*pulpal involvement .
if any(6, ul2d, ul2m, ul2b, ul2l) tculbd = 110 .
*filled, recurrent .
if any(7, ul2d, ul2m, ul2b, ul2l) tculbd = 111 .
if any(8, ul2d, ul2m, ul2b, ul2l) tculbd = 112 .
*missing .
if ulb2 = 1 tculbd = -1 .
if ulb2 = -9 tculbd = -8 .
if tculbd = 999 tculbd = -9 .
var lab tculbd 'UL2 deciduous - disaggregated summary (2013) ' .


***tcul3d - permanent .
compute tcul3d=999 .
*all surfaces sound .
if (ul3d=1 & ul3m=1 & ul3b=1 & ul3l=1) tcul3d = 101 .
*missing teeth .
if ul3d = 14 tcul3d = 102 .
if ul3d = 15 tcul3d = 103 .
if ul3d = 16 tcul3d = 104 .
if ul3d = 17 tcul3d = 105 .
*sealed surface, otherwise sound .
if any(11, ul3d, ul3m, ul3b, ul3l) tcul3d = 115 .
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*trauma, trumped by advanced restoration .
if any(12, ul3d, ul3m, ul3b, ul3l) tcul3d = 116 .
if any(13, ul3d, ul3m, ul3b, ul3l) tcul3d = 117 .
*enamel caries .
if any(2, ul3d, ul3m, ul3b, ul3l) tcul3d = 106 .
if any(3, ul3d, ul3m, ul3b, ul3l) tcul3d = 107 .
*sound fillings, then broken fillings .
if any(9, ul3d, ul3m, ul3b, ul3l) tcul3d = 114 .
if any(10, ul3d, ul3m, ul3b, ul3l) tcul3d = 113 .
*caries into dentine.
if any(4, ul3d, ul3m, ul3b, ul3l) tcul3d = 108 .
if any(5, ul3d, ul3m, ul3b, ul3l) tcul3d = 109 .
*pulpal involvement .
if any(6, ul3d, ul3m, ul3b, ul3l) tcul3d = 110 .
*filled, recurrent .
if any(7, ul3d, ul3m, ul3b, ul3l) tcul3d = 111 .
if any(8, ul3d, ul3m, ul3b, ul3l) tcul3d = 112 .
*missing .
if ulc3 = 2 tcul3d = -1 .
if ulc3 = -9 tcul3d = -8 .
if tcul3d = 999 tcul3d = -9 .
var lab tcul3d 'UL3 permanent - disaggregated summary (2013) ' .


***tculcd - ul3 deciduous .
compute tculcd=999 .
*all surfaces sound .
if (ul3d=1 & ul3m=1 & ul3b=1 & ul3l=1) tculcd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ul3d, ul3m, ul3b, ul3l) tculcd = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul3d, ul3m, ul3b, ul3l) tculcd = 116 .
if any(13, ul3d, ul3m, ul3b, ul3l) tculcd = 117 .
*enamel caries .
if any(2, ul3d, ul3m, ul3b, ul3l) tculcd = 106 .
if any(3, ul3d, ul3m, ul3b, ul3l) tculcd = 107 .
*sound fillings, then broken fillings .
if any(9, ul3d, ul3m, ul3b, ul3l) tculcd = 114 .
if any(10, ul3d, ul3m, ul3b, ul3l) tculcd = 113 .
*caries into dentine.
if any(4, ul3d, ul3m, ul3b, ul3l) tculcd = 108 .
if any(5, ul3d, ul3m, ul3b, ul3l) tculcd = 109 .
*pulpal involvement .
if any(6, ul3d, ul3m, ul3b, ul3l) tculcd = 110 .
*filled, recurrent .
if any(7, ul3d, ul3m, ul3b, ul3l) tculcd = 111 .
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if any(8, ul3d, ul3m, ul3b, ul3l) tculcd = 112 .
*missing .
if ulc3 = 1 tculcd = -1 .
if ulc3 = -9 tculcd = -8 .
if tculcd = 999 tculcd = -9 .
var lab tculcd 'UL3 deciduous - disaggregated summary (2013) ' .


***tcul4d permanent .
compute tcul4d=999 .
*all surfaces sound .
if (ul4d=1 & ul4o=1 & ul4m=1 & ul4b=1 & ul4l=1) tcul4d = 101 .
*missing teeth .
if ul4d = 14 tcul4d = 102 .
if ul4d = 15 tcul4d = 103 .
if ul4d = 16 tcul4d = 104 .
if ul4d = 17 tcul4d = 105 .
*sealed surface, otherwise sound .
if any(11, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 116 .
if any(13, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 117 .
*enamel caries .
if any(2, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 106 .
if any(3, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 107 .
*sound fillings, then broken fillings .
if any(9, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 114 .
if any(10, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 113 .
*caries into dentine.
if any(4, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 108 .
if any(5, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 109 .
*pulpal involvement .
if any(6, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 110 .
*filled, recurrent .
if any(7, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 111 .
if any(8, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4d = 112 .
*missing .
if uld4 = 2 tcul4d = -1 .
if uld4 = -9 tcul4d = -8 .
if tcul4d = 999 tcul4d = -9 .
var lab tcul4d 'UL4 permanent - disaggregated summary (2013) ' .


***tculdd - ul4 decid.
compute tculdd=999 .
*all surfaces sound .
if (ul4d=1 & ul4o=1 & ul4m=1 & ul4b=1 & ul4l=1) tculdd = 101 .
```

```
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 116 .
if any(13, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 117 .
*enamel caries .
if any(2, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 106 .
if any(3, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 107 .
*sound fillings, then broken fillings .
if any(9, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 114 .
if any(10, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 113 .
*caries into dentine.
if any(4, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 108 .
if any(5, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 109 .
*pulpal involvement .
if any(6, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 110 .
*filled, recurrent .
if any(7, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 111 .
if any(8, ul4d, ul4o, ul4m, ul4b, ul4l) tculdd = 112 .
*missing .
if uld4 = 1 tculdd = -1 .
if uld4 = -9 tculdd = -8 .
if tculdd = 999 tculdd = -9 .
var lab tculdd 'UL4 deciduous - disaggregated summary (2013) ' .


***tcul5d permanent ..
compute tcul5d=999 .
*all surfaces sound .
if (ul5d=1 & ul5o=1 & ul5m=1 & ul5b=1 & ul5l=1) tcul5d = 101 .
*missing teeth .
if ul5d = 14 tcul5d = 102 .
if ul5d = 15 tcul5d = 103 .
if ul5d = 16 tcul5d = 104 .
if ul5d = 17 tcul5d = 105 .
*sealed surface, otherwise sound .
if any(11, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 116 .
if any(13, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 117 .
*enamel caries .
if any(2, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 106 .
if any(3, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 107 .
*sound fillings, then broken fillings .
if any(9, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 114 .
if any(10, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 113 .
```

```
*caries into dentine.
if any(4, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 108 .
if any(5, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 109 .
*pulpal involvement .
if any(6, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 110 .
*filled, recurrent .
if any(7, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 111 .
if any(8, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5d = 112 .
*missing .
if ule5 = 2 tcul5d = -1 .
if ule5 = -9 tcul5d = -8 .
if tcul5d = 999 tcul5d = -9 .
var lab tcul5d 'UL5 permanent - disaggregated summary (2013) ' .


***tculed ul5 - decid .
compute tculed=999 .
*all surfaces sound .
if (ul5d=1 & ul5o=1 & ul5m=1 & ul5b=1 & ul5l=1) tculed = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 116 .
if any(13, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 117 .
*enamel caries .
if any(2, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 106 .
if any(3, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 107 .
*sound fillings, then broken fillings .
if any(9, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 114 .
if any(10, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 113 .
*caries into dentine.
if any(4, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 108 .
if any(5, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 109 .
*pulpal involvement .
if any(6, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 110 .
*filled, recurrent .
if any(7, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 111 .
if any(8, ul5d, ul5o, ul5m, ul5b, ul5l) tculed = 112 .
*missing .
if ule5 = 1 tculed = -1 .
if ule5 = -9 tculed = -8 .
if tculed = 999 tculed = -9 .
var lab tculed 'UL5 deciduous - disaggregated summary (2013) ' .


***tcul6d .
```

```
compute tcul6d=999 .
*all surfaces sound .
if (ul6d=1 & ul6o=1 & ul6m=1 & ul6b=1 & ul6l=1) tcul6d = 101 .
*missing teeth .
if ul6d = 14 tcul6d = 102 .
if ul6d = 15 tcul6d = 103 .
if ul6d = 16 tcul6d = 104 .
if ul6d = 17 tcul6d = 105 .
*sealed surface, otherwise sound .
if any(11, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 116 .
if any(13, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 117 .
*enamel caries .
if any(2, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 106 .
if any(3, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 107 .
*sound fillings, then broken fillings .
if any(9, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 114 .
if any(10, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 113 .
*caries into dentine.
if any(4, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 108 .
if any(5, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 109 .
*pulpal involvement .
if any(6, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 110 .
*filled, recurrent .
if any(7, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 111 .
if any(8, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6d = 112 .
*missing .
if tcul6d = 999 tcul6d = -9 .
var lab tcul6d 'UL6 - disaggregated summary (2013) ' .


***tcul7d .
compute tcul7d=999 .
*all surfaces sound .
if (ul7d=1 & ul7o=1 & ul7m=1 & ul7b=1 & ul7l=1) tcul7d = 101 .
*missing teeth .
if ul7d = 14 tcul7d = 102 .
if ul7d = 15 tcul7d = 103 .
if ul7d = 16 tcul7d = 104 .
if ul7d = 17 tcul7d = 105 .
*sealed surface, otherwise sound .
if any(11, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 116 .
if any(13, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 117 .
*enamel caries .
```

```
if any(2, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 106 .
if any(3, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 107 .
*sound fillings, then broken fillings .
if any(9, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 114 .
if any(10, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 113 .
*caries into dentine.
if any(4, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 108 .
if any(5, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 109 .
*pulpal involvement .
if any(6, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 110 .
*filled, recurrent .
if any(7, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 111 .
if any(8, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7d = 112 .
*missing .
if tcul7d = 999 tcul7d = -9 .
var lab tcul7d 'UL7 - disaggregated summary (2013) ' .


*-----.
VALUE LABELS tcur7d to tcul7d
      -9 'Not coded' -8 'Tooth type not coded' -1 'Not applicable'
      101 'sound' 102 'unerupted' 103 'extracted (ortho)'  104 'extracted (caries)' 105 'extracted (trauma)'
      106 'enamel caries (non cavitated)' 107 'enamel caries (cavitated)'
      108 'caries into dentine (visual)' 109 'caries into dentine (cavitated)' 110 'caries, pulpal involvement'
      111 'filled with recurrent decay (no visual cavitation)' 112 'filled with recurrent decay (visual cavitation)'
      113 'filling needs replacement, no decay'  114 'sound filling - no decay'
      115 'obviously sealed surface' 116 'traumatised surface'  117 'crown or advanced restoration'.


*-----.
FRE tcur7d to tcul7d.

OUTPUT NEW.
FRE tcur7 to tcul7.

TEMPORARY.
RECODE tcur7d to tcul7d (101 thru hi = 1).
CROSSTABS tcur5d BY tcured
      /tcur4d BY tcurdd
      /tcur3d BY tcurcd
      /tcur2d BY tcurbd
      /tcur1d BY tcurad.

TEMPORARY.
RECODE tcur7d to tcul7d  (101 thru hi = 1).
CROSSTABS tcul5d BY tculed
      /tcul4d BY tculdd
```

```
    /tcul3d BY tculcd
    /tcul2d BY tculbd
    /tcul1d BY tculad.

TEMPORARY.
SELECT IF (tcur5d GE 101 AND tcured NE -1) OR (tcur5d NE -1 AND tcured GE 101) OR
    (tcur4d GE 101 AND tcurdd NE -1) OR (tcur4d NE -1 AND tcurdd GE 101) OR
    (tcur3d GE 101 AND tcurcd NE -1) OR (tcur3d NE -1 AND tcurcd GE 101) OR
    (tcur2d GE 101 AND tcurbd NE -1) OR (tcur2d NE -1 AND tcurbd GE 101) OR
    (tcur1d GE 101 AND tcurad NE -1) OR (tcur1d NE -1 AND tcurad GE 101).
LIST serial tcur5d TO tcurad.
```

```
*File contains syntax for creating tooth level tooth condition summary variables consistent with the 1993 survey criteria.
*This allows the creation of summary variables associated with obvious decay experience excluding visual dentine caries.

*Note that these tooth summary DVs have not been retained on the archived data file but the syntax is provided because the
mouth level summary DVs are retained, and to allow analysts to recreate this tooth level data should they so wish.



*2003 tooth codes - create tooth vars with these to run the 1993 DVs on.
*0 'sound' 1 'unerrupted' 2 'extracted -caries' 3 'extracted - ortho'
4 'extracted - trauma' 5 'filled and decayed' 6 'tooth decayed-pulpal involvement' 7 ' tooth decayed'
8 'tooth filled - filling needs replacing' 9 'Tooth filled' 10 'sealed surface' 11'traumatised surface' 12 'crown advanced restoration'.

*2013 codes (revised so that restorations trump enamel caries).
*1 'sound' 2 'unerupted' 3 'extracted (ortho)'  4 'extracted (caries)' 5 'extracted (trauma)' 6 'enamel caries' 7 'filled and decayed'
  8 'decayed - pulpal involvement' 9 'visual/cavitated caries' 10 'filling needs replacement, no decay'
 11 'sound filling - no decay' 12 'obviously sealed surface' 13 'traumatised surface'  14 'crown or advanced restoration' .


*---------------.
MISSING VALUES ALL ().

*----------.
*Upper right.

*-----.
*tcur793.
FRE ur7d, ur7o, ur7m, ur7b, ur7l.
DISPLAY DICTIONARY /VARIABLES ur7d.

NUMERIC tcur793 (F2).
VARIABLE LABELS tcur793 "UR7 - summary (1993)".
VALUE LABELS tcur793
      0 "sound"
      1 "unerrupted"
      2 "extracted -caries"
      3 "extracted - ortho"
      4 "extracted - trauma"
      5 "filled and decayed"
      6 "tooth decayed-pulpal involvement"
      7 "tooth decayed"
      8 "tooth filled - filling needs replacing"
      9 "Tooth filled"
      10 "sealed surface"
      11 "traumatised surface"
      12 "crown advanced restoration".
```

```
COMPUTE tcur793 = 999.
IF (ur7d=1 & ur7o=1 & ur7m=1 & ur7b=1 & ur7l=1) OR (any(2, ur7d, ur7o, ur7m, ur7b, ur7l) OR any(3, ur7d, ur7o, ur7m, ur7b, ur7l) OR
      any(4, ur7d, ur7o, ur7m, ur7b, ur7l)) tcur793 = 0.
IF ur7d = 14 tcur793 = 1.
IF ur7d = 15 tcur793 = 3.
IF ur7d = 16 tcur793 = 2.
IF ur7d = 17 tcur793 = 4.
IF any(13, ur7d, ur7o, ur7m, ur7b, ur7l) tcur793 = 12.
IF any(12, ur7d, ur7o, ur7m, ur7b, ur7l) tcur793 = 11.
IF any(11, ur7d, ur7o, ur7m, ur7b, ur7l) tcur793 = 10.
IF (any(7, ur7d, ur7o, ur7m, ur7b, ur7l) OR any(9, ur7d, ur7o, ur7m, ur7b, ur7l)) tcur793 = 9.
IF any(10, ur7d, ur7o, ur7m, ur7b, ur7l) tcur793 = 8.
IF any(5, ur7d, ur7o, ur7m, ur7b, ur7l) tcur793 = 7.
IF any(6, ur7d, ur7o, ur7m, ur7b, ur7l) tcur793 = 6.
IF any(8, ur7d, ur7o, ur7m, ur7b, ur7l) tcur793 = 5.
IF tcur793 = 999 tcur793 = -9 .
FRE tcur793 tcur7.
*DIFferences as expected, including more coded as sound in 1993.

*-----.
*tcur693.
NUMERIC tcur693 (F2).
VARIABLE LABELS tcur693 "UR6 - summary (1993)".

COMPUTE tcur693 = 999.
IF (ur6d=1 & ur6o=1 & ur6m=1 & ur6b=1 & ur6l=1) OR (any(2, ur6d, ur6o, ur6m, ur6b, ur6l) OR any(3, ur6d, ur6o, ur6m, ur6b, ur6l) OR
      any(4, ur6d, ur6o, ur6m, ur6b, ur6l)) tcur693 = 0.
IF ur6d = 14 tcur693 = 1.
IF ur6d = 15 tcur693 = 3.
IF ur6d = 16 tcur693 = 2.
IF ur6d = 17 tcur693 = 4.
IF any(13, ur6d, ur6o, ur6m, ur6b, ur6l) tcur693 = 12.
IF any(12, ur6d, ur6o, ur6m, ur6b, ur6l) tcur693 = 11.
IF any(11, ur6d, ur6o, ur6m, ur6b, ur6l) tcur693 = 10.
IF (any(7, ur6d, ur6o, ur6m, ur6b, ur6l) OR any(9, ur6d, ur6o, ur6m, ur6b, ur6l)) tcur693 = 9.
IF any(10, ur6d, ur6o, ur6m, ur6b, ur6l) tcur693 = 8.
IF any(5, ur6d, ur6o, ur6m, ur6b, ur6l) tcur693 = 7.
IF any(6, ur6d, ur6o, ur6m, ur6b, ur6l) tcur693 = 6.
IF any(8, ur6d, ur6o, ur6m, ur6b, ur6l) tcur693 = 5.
IF tcur693 = 999 tcur693 = -9 .

*-----.
*tcur593 - permanent.
NUMERIC tcur593 (F2).
VARIABLE LABELS tcur593 "UR5 permanent - summary (1993)".
```

```
COMPUTE tcur593 = 999.
IF (ur5d=1 & ur5o=1 & ur5m=1 & ur5b=1 & ur5l=1) OR (any(2, ur5d, ur5o, ur5m, ur5b, ur5l) OR any(3, ur5d, ur5o, ur5m, ur5b, ur5l) OR
      any(4, ur5d, ur5o, ur5m, ur5b, ur5l)) tcur593 = 0.
IF ur5d = 14 tcur593 = 1.
IF ur5d = 15 tcur593 = 3.
IF ur5d = 16 tcur593 = 2.
IF ur5d = 17 tcur593 = 4.
IF any(13, ur5d, ur5o, ur5m, ur5b, ur5l) tcur593 = 12.
IF any(12, ur5d, ur5o, ur5m, ur5b, ur5l) tcur593 = 11.
IF any(11, ur5d, ur5o, ur5m, ur5b, ur5l) tcur593 = 10.
IF (any(7, ur5d, ur5o, ur5m, ur5b, ur5l) OR any(9, ur5d, ur5o, ur5m, ur5b, ur5l)) tcur593 = 9.
IF any(10, ur5d, ur5o, ur5m, ur5b, ur5l) tcur593 = 8.
IF any(5, ur5d, ur5o, ur5m, ur5b, ur5l) tcur593 = 7.
IF any(6, ur5d, ur5o, ur5m, ur5b, ur5l) tcur593 = 6.
IF any(8, ur5d, ur5o, ur5m, ur5b, ur5l) tcur593 = 5.
IF ure5 = 2 tcur593 = -1 .
IF ure5 = -9 tcur593 = -8 .
IF tcur593 = 999 tcur593 = -9 .

*-----.
*tcur593 decid.
NUMERIC tcure93 (F2).
VARIABLE LABELS tcure93 "UR5 deciduous - summary (1993)".

COMPUTE tcure93 = 999.
IF (ur5d=1 & ur5o=1 & ur5m=1 & ur5b=1 & ur5l=1) OR (any(2, ur5d, ur5o, ur5m, ur5b, ur5l) OR any(3, ur5d, ur5o, ur5m, ur5b, ur5l) OR
      any(4, ur5d, ur5o, ur5m, ur5b, ur5l)) tcure93 = 0.
IF any(13, ur5d, ur5o, ur5m, ur5b, ur5l) tcure93 = 12.
IF any(12, ur5d, ur5o, ur5m, ur5b, ur5l) tcure93 = 11.
IF any(11, ur5d, ur5o, ur5m, ur5b, ur5l) tcure93 = 10.
IF (any(7, ur5d, ur5o, ur5m, ur5b, ur5l) OR any(9, ur5d, ur5o, ur5m, ur5b, ur5l)) tcure93 = 9.
IF any(10, ur5d, ur5o, ur5m, ur5b, ur5l) tcure93 = 8.
IF any(5, ur5d, ur5o, ur5m, ur5b, ur5l) tcure93 = 7.
IF any(6, ur5d, ur5o, ur5m, ur5b, ur5l) tcure93 = 6.
IF any(8, ur5d, ur5o, ur5m, ur5b, ur5l) tcure93 = 5.
IF ure5 = 1 tcure93 = -1 .
IF ure5 = -9 tcure93 = -8 .
IF tcure93 = 999 tcure93 = -9 .

*-----.
*tcur493 - permanent.
NUMERIC tcur493 (F2).
VARIABLE LABELS tcur493 "UR4 permanent - summary (1993)".

COMPUTE tcur493 = 999.
IF (ur4d=1 & ur4o=1 & ur4m=1 & ur4b=1 & ur4l=1) OR (any(2, ur4d, ur4o, ur4m, ur4b, ur4l) OR any(3, ur4d, ur4o, ur4m, ur4b, ur4l) OR
      any(4, ur4d, ur4o, ur4m, ur4b, ur4l)) tcur493 = 0.
```

```
IF ur4d = 14 tcur493 = 1.
IF ur4d = 15 tcur493 = 3.
IF ur4d = 16 tcur493 = 2.
IF ur4d = 17 tcur493 = 4.
IF any(13, ur4d, ur4o, ur4m, ur4b, ur4l) tcur493 = 12.
IF any(12, ur4d, ur4o, ur4m, ur4b, ur4l) tcur493 = 11.
IF any(11, ur4d, ur4o, ur4m, ur4b, ur4l) tcur493 = 10.
IF (any(7, ur4d, ur4o, ur4m, ur4b, ur4l) OR any(9, ur4d, ur4o, ur4m, ur4b, ur4l)) tcur493 = 9.
IF any(10, ur4d, ur4o, ur4m, ur4b, ur4l) tcur493 = 8.
IF any(5, ur4d, ur4o, ur4m, ur4b, ur4l) tcur493 = 7.
IF any(6, ur4d, ur4o, ur4m, ur4b, ur4l) tcur493 = 6.
IF any(8, ur4d, ur4o, ur4m, ur4b, ur4l) tcur493 = 5.
IF urd4 = 2 tcur493 = -1 .
IF urd4 = -9 tcur493 = -8 .
IF tcur493 = 999 tcur493 = -9 .

*-----.
*tcur493 decid.
NUMERIC tcurd93 (F2).
VARIABLE LABELS tcurd93 "UR4 deciduous - summary (1993)".

COMPUTE tcurd93 = 999.
IF (ur4d=1 & ur4o=1 & ur4m=1 & ur4b=1 & ur4l=1) OR (any(2, ur4d, ur4o, ur4m, ur4b, ur4l) OR any(3, ur4d, ur4o, ur4m, ur4b, ur4l) OR
      any(4, ur4d, ur4o, ur4m, ur4b, ur4l)) tcurd93 = 0.
IF any(13, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd93 = 12.
IF any(12, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd93 = 11.
IF any(11, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd93 = 10.
IF (any(7, ur4d, ur4o, ur4m, ur4b, ur4l) OR any(9, ur4d, ur4o, ur4m, ur4b, ur4l)) tcurd93 = 9.
IF any(10, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd93 = 8.
IF any(5, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd93 = 7.
IF any(6, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd93 = 6.
IF any(8, ur4d, ur4o, ur4m, ur4b, ur4l) tcurd93 = 5.
IF urd4 = 1 tcurd93 = -1 .
IF urd4 = -9 tcurd93 = -8 .
IF tcurd93 = 999 tcurd93 = -9 .

*-----.
*tcur393 - permanent.
NUMERIC tcur393 (F2).
VARIABLE LABELS tcur393 "UR3 permanent - summary (1993)".

COMPUTE tcur393 = 999.
IF (ur3d=1 & ur3m=1 & ur3b=1 & ur3l=1) OR (any(2, ur3d, ur3m, ur3b, ur3l) OR any(3, ur3d, ur3m, ur3b, ur3l) OR
      any(4, ur3d, ur3m, ur3b, ur3l)) tcur393 = 0.
IF ur3d = 14 tcur393 = 1.
IF ur3d = 15 tcur393 = 3.
IF ur3d = 16 tcur393 = 2.
```

```
IF ur3d = 17 tcur393 = 4.
IF any(13, ur3d, ur3m, ur3b, ur3l) tcur393 = 12.
IF any(12, ur3d, ur3m, ur3b, ur3l) tcur393 = 11.
IF any(11, ur3d, ur3m, ur3b, ur3l) tcur393 = 10.
IF (any(7, ur3d, ur3m, ur3b, ur3l) OR any(9, ur3d, ur3m, ur3b, ur3l)) tcur393 = 9.
IF any(10, ur3d, ur3m, ur3b, ur3l) tcur393 = 8.
IF any(5, ur3d, ur3m, ur3b, ur3l) tcur393 = 7.
IF any(6, ur3d, ur3m, ur3b, ur3l) tcur393 = 6.
IF any(8, ur3d, ur3m, ur3b, ur3l) tcur393 = 5.
IF urc3 = 2 tcur393 = -1 .
IF urc3 = -9 tcur393 = -8 .
IF tcur393 = 999 tcur393 = -9 .

*-----.
*tcur393 decid.
NUMERIC tcurc93 (F2).
VARIABLE LABELS tcurc93 "UR3 deciduous - summary (1993)".

COMPUTE tcurc93 = 999.
IF (ur3d=1 & ur3m=1 & ur3b=1 & ur3l=1) OR (any(2, ur3d, ur3m, ur3b, ur3l) OR any(3, ur3d, ur3m, ur3b, ur3l) OR
      any(4, ur3d, ur3m, ur3b, ur3l)) tcurc93 = 0.
IF any(13, ur3d, ur3m, ur3b, ur3l) tcurc93 = 12.
IF any(12, ur3d, ur3m, ur3b, ur3l) tcurc93 = 11.
IF any(11, ur3d, ur3m, ur3b, ur3l) tcurc93 = 10.
IF (any(7, ur3d, ur3m, ur3b, ur3l) OR any(9, ur3d, ur3m, ur3b, ur3l)) tcurc93 = 9.
IF any(10, ur3d, ur3m, ur3b, ur3l) tcurc93 = 8.
IF any(5, ur3d, ur3m, ur3b, ur3l) tcurc93 = 7.
IF any(6, ur3d, ur3m, ur3b, ur3l) tcurc93 = 6.
IF any(8, ur3d, ur3m, ur3b, ur3l) tcurc93 = 5.
IF urc3 = 1 tcurc93 = -1 .
IF urc3 = -9 tcurc93 = -8 .
IF tcurc93 = 999 tcurc93 = -9 .

*-----.
*tcur293 - permanent.
NUMERIC tcur293 (F2).
VARIABLE LABELS tcur293 "UR2 permanent - summary (1993)".

COMPUTE tcur293 = 999.
IF (ur2d=1 & ur2m=1 & ur2b=1 & ur2l=1) OR (any(2, ur2d, ur2m, ur2b, ur2l) OR any(3, ur2d, ur2m, ur2b, ur2l) OR
      any(4, ur2d, ur2m, ur2b, ur2l)) tcur293 = 0.
IF ur2d = 14 tcur293 = 1.
IF ur2d = 15 tcur293 = 3.
IF ur2d = 16 tcur293 = 2.
IF ur2d = 17 tcur293 = 4.
IF any(13, ur2d, ur2m, ur2b, ur2l) tcur293 = 12.
IF any(12, ur2d, ur2m, ur2b, ur2l) tcur293 = 11.
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IF any(11, ur2d, ur2m, ur2b, ur2l) tcur293 = 10.
IF (any(7, ur2d, ur2m, ur2b, ur2l) OR any(9, ur2d, ur2m, ur2b, ur2l)) tcur293 = 9.
IF any(10, ur2d, ur2m, ur2b, ur2l) tcur293 = 8.
IF any(5, ur2d, ur2m, ur2b, ur2l) tcur293 = 7.
IF any(6, ur2d, ur2m, ur2b, ur2l) tcur293 = 6.
IF any(8, ur2d, ur2m, ur2b, ur2l) tcur293 = 5.
IF urb2 = 2 tcur293 = -1 .
IF urb2 = -9 tcur293 = -8 .
IF tcur293 = 999 tcur293 = -9 .

*-----.
*tcur293 decid.
NUMERIC  tcurb93 (F2).
VARIABLE LABELS  tcurb93 "UR2 deciduous - summary (1993)".

COMPUTE  tcurb93 = 999.
IF (ur2d=1 & ur2m=1 & ur2b=1 & ur2l=1) OR (any(2, ur2d, ur2m, ur2b, ur2l) OR any(3, ur2d, ur2m, ur2b, ur2l) OR
      any(4, ur2d, ur2m, ur2b, ur2l))  tcurb93 = 0.
IF any(13, ur2d, ur2m, ur2b, ur2l)  tcurb93 = 12.
IF any(12, ur2d, ur2m, ur2b, ur2l)  tcurb93 = 11.
IF any(11, ur2d, ur2m, ur2b, ur2l)  tcurb93 = 10.
IF (any(7, ur2d, ur2m, ur2b, ur2l) OR any(9, ur2d, ur2m, ur2b, ur2l))  tcurb93 = 9.
IF any(10, ur2d, ur2m, ur2b, ur2l)  tcurb93 = 8.
IF any(5, ur2d, ur2m, ur2b, ur2l)  tcurb93 = 7.
IF any(6, ur2d, ur2m, ur2b, ur2l)  tcurb93 = 6.
IF any(8, ur2d, ur2m, ur2b, ur2l)  tcurb93 = 5.
IF urb2 = 1 tcurb93 = -1 .
IF urb2 = -9 tcurb93 = -8 .
IF  tcurb93 = 999  tcurb93 = -9 .

*-----.
*tcur193 - permanent.
NUMERIC tcur193 (F2).
VARIABLE LABELS tcur193 "UR1 permanent - summary (1993)".

COMPUTE tcur193 = 999.
IF (ur1d=1 & ur1m=1 & ur1b=1 & ur1l=1) OR (any(2, ur1d, ur1m, ur1b, ur1l) OR any(3, ur1d, ur1m, ur1b, ur1l) OR
      any(4, ur1d, ur1m, ur1b, ur1l)) tcur193 = 0.
IF ur1d = 14 tcur193 = 1.
IF ur1d = 15 tcur193 = 3.
IF ur1d = 16 tcur193 = 2.
IF ur1d = 17 tcur193 = 4.
IF any(13, ur1d, ur1m, ur1b, ur1l) tcur193 = 12.
IF any(12, ur1d, ur1m, ur1b, ur1l) tcur193 = 11.
IF any(11, ur1d, ur1m, ur1b, ur1l) tcur193 = 10.
IF (any(7, ur1d, ur1m, ur1b, ur1l) OR any(9, ur1d, ur1m, ur1b, ur1l)) tcur193 = 9.
IF any(10, ur1d, ur1m, ur1b, ur1l) tcur193 = 8.
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IF any(5, ur1d, ur1m, ur1b, ur1l) tcur193 = 7.
IF any(6, ur1d, ur1m, ur1b, ur1l) tcur193 = 6.
IF any(8, ur1d, ur1m, ur1b, ur1l) tcur193 = 5.
IF ura1 = 2 tcur193 = -1 .
IF ura1 = -9 tcur193 = -8 .
IF tcur193 = 999 tcur193 = -9 .

*-----.
*tcur193 decid.
NUMERIC  tcura93 (F2).
VARIABLE LABELS  tcura93 "UR1 deciduous - summary (1993)".

COMPUTE  tcura93 = 999.
IF (ur1d=1 & ur1m=1 & ur1b=1 & ur1l=1) OR (any(2, ur1d, ur1m, ur1b, ur1l) OR any(3, ur1d, ur1m, ur1b, ur1l) OR
      any(4, ur1d, ur1m, ur1b, ur1l))  tcura93 = 0.
IF any(13, ur1d, ur1m, ur1b, ur1l)  tcura93 = 12.
IF any(12, ur1d, ur1m, ur1b, ur1l)  tcura93 = 11.
IF any(11, ur1d, ur1m, ur1b, ur1l)  tcura93 = 10.
IF (any(7, ur1d, ur1m, ur1b, ur1l) OR any(9, ur1d, ur1m, ur1b, ur1l))  tcura93 = 9.
IF any(10, ur1d, ur1m, ur1b, ur1l)  tcura93 = 8.
IF any(5, ur1d, ur1m, ur1b, ur1l)  tcura93 = 7.
IF any(6, ur1d, ur1m, ur1b, ur1l)  tcura93 = 6.
IF any(8, ur1d, ur1m, ur1b, ur1l)  tcura93 = 5.
IF ura1 = 1 tcura93 = -1 .
IF ura1 = -9 tcura93 = -8 .
IF  tcura93 = 999  tcura93 = -9 .


*----------.
*Upper left.

*-----.
*tcul793.
NUMERIC tcul793 (F2).
VARIABLE LABELS tcul793 "UL7 - summary (1993)".

COMPUTE tcul793 = 999.
IF (ul7d=1 & ul7o=1 & ul7m=1 & ul7b=1 & ul7l=1) OR (any(2, ul7d, ul7o, ul7m, ul7b, ul7l) OR any(3, ul7d, ul7o, ul7m, ul7b, ul7l) OR
      any(4, ul7d, ul7o, ul7m, ul7b, ul7l)) tcul793 = 0.
IF ul7d = 14 tcul793 = 1.
IF ul7d = 15 tcul793 = 3.
IF ul7d = 16 tcul793 = 2.
IF ul7d = 17 tcul793 = 4.
IF any(13, ul7d, ul7o, ul7m, ul7b, ul7l) tcul793 = 12.
IF any(12, ul7d, ul7o, ul7m, ul7b, ul7l) tcul793 = 11.
IF any(11, ul7d, ul7o, ul7m, ul7b, ul7l) tcul793 = 10.
IF (any(7, ul7d, ul7o, ul7m, ul7b, ul7l) OR any(9, ul7d, ul7o, ul7m, ul7b, ul7l)) tcul793 = 9.
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IF any(10, ul7d, ul7o, ul7m, ul7b, ul7l) tcul793 = 8.
IF any(5, ul7d, ul7o, ul7m, ul7b, ul7l) tcul793 = 7.
IF any(6, ul7d, ul7o, ul7m, ul7b, ul7l) tcul793 = 6.
IF any(8, ul7d, ul7o, ul7m, ul7b, ul7l) tcul793 = 5.
IF tcul793 = 999 tcul793 = -9 .

*-----.
*tcul693.
NUMERIC tcul693 (F2).
VARIABLE LABELS tcul693 "UL6 - summary (1993)".

COMPUTE tcul693 = 999.
IF (ul6d=1 & ul6o=1 & ul6m=1 & ul6b=1 & ul6l=1) OR (any(2, ul6d, ul6o, ul6m, ul6b, ul6l) OR any(3, ul6d, ul6o, ul6m, ul6b, ul6l) OR
      any(4, ul6d, ul6o, ul6m, ul6b, ul6l)) tcul693 = 0.
IF ul6d = 14 tcul693 = 1.
IF ul6d = 15 tcul693 = 3.
IF ul6d = 16 tcul693 = 2.
IF ul6d = 17 tcul693 = 4.
IF any(13, ul6d, ul6o, ul6m, ul6b, ul6l) tcul693 = 12.
IF any(12, ul6d, ul6o, ul6m, ul6b, ul6l) tcul693 = 11.
IF any(11, ul6d, ul6o, ul6m, ul6b, ul6l) tcul693 = 10.
IF (any(7, ul6d, ul6o, ul6m, ul6b, ul6l) OR any(9, ul6d, ul6o, ul6m, ul6b, ul6l)) tcul693 = 9.
IF any(10, ul6d, ul6o, ul6m, ul6b, ul6l) tcul693 = 8.
IF any(5, ul6d, ul6o, ul6m, ul6b, ul6l) tcul693 = 7.
IF any(6, ul6d, ul6o, ul6m, ul6b, ul6l) tcul693 = 6.
IF any(8, ul6d, ul6o, ul6m, ul6b, ul6l) tcul693 = 5.
IF tcul693 = 999 tcul693 = -9 .

*-----.
*tcul593 - permanent.
NUMERIC tcul593 (F2).
VARIABLE LABELS tcul593 "UL5 permanent - summary (1993)".

COMPUTE tcul593 = 999.
IF (ul5d=1 & ul5o=1 & ul5m=1 & ul5b=1 & ul5l=1) OR (any(2, ul5d, ul5o, ul5m, ul5b, ul5l) OR any(3, ul5d, ul5o, ul5m, ul5b, ul5l) OR
      any(4, ul5d, ul5o, ul5m, ul5b, ul5l)) tcul593 = 0.
IF ul5d = 14 tcul593 = 1.
IF ul5d = 15 tcul593 = 3.
IF ul5d = 16 tcul593 = 2.
IF ul5d = 17 tcul593 = 4.
IF any(13, ul5d, ul5o, ul5m, ul5b, ul5l) tcul593 = 12.
IF any(12, ul5d, ul5o, ul5m, ul5b, ul5l) tcul593 = 11.
IF any(11, ul5d, ul5o, ul5m, ul5b, ul5l) tcul593 = 10.
IF (any(7, ul5d, ul5o, ul5m, ul5b, ul5l) OR any(9, ul5d, ul5o, ul5m, ul5b, ul5l)) tcul593 = 9.
IF any(10, ul5d, ul5o, ul5m, ul5b, ul5l) tcul593 = 8.
IF any(5, ul5d, ul5o, ul5m, ul5b, ul5l) tcul593 = 7.
IF any(6, ul5d, ul5o, ul5m, ul5b, ul5l) tcul593 = 6.
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IF any(8, ul5d, ul5o, ul5m, ul5b, ul5l) tcul593 = 5.
IF ule5 = 2 tcul593 = -1 .
IF ule5 = -9 tcul593 = -8 .
IF tcul593 = 999 tcul593 = -9 .

*-----.
*tcul593 decid.
NUMERIC tcule93 (F2).
VARIABLE LABELS tcule93 "UL5 deciduous - summary (1993)".

COMPUTE tcule93 = 999.
IF (ul5d=1 & ul5o=1 & ul5m=1 & ul5b=1 & ul5l=1) OR (any(2, ul5d, ul5o, ul5m, ul5b, ul5l) OR any(3, ul5d, ul5o, ul5m, ul5b, ul5l) OR
      any(4, ul5d, ul5o, ul5m, ul5b, ul5l)) tcule93 = 0.
IF any(13, ul5d, ul5o, ul5m, ul5b, ul5l) tcule93 = 12.
IF any(12, ul5d, ul5o, ul5m, ul5b, ul5l) tcule93 = 11.
IF any(11, ul5d, ul5o, ul5m, ul5b, ul5l) tcule93 = 10.
IF (any(7, ul5d, ul5o, ul5m, ul5b, ul5l) OR any(9, ul5d, ul5o, ul5m, ul5b, ul5l)) tcule93 = 9.
IF any(10, ul5d, ul5o, ul5m, ul5b, ul5l) tcule93 = 8.
IF any(5, ul5d, ul5o, ul5m, ul5b, ul5l) tcule93 = 7.
IF any(6, ul5d, ul5o, ul5m, ul5b, ul5l) tcule93 = 6.
IF any(8, ul5d, ul5o, ul5m, ul5b, ul5l) tcule93 = 5.
IF ule5 = 1 tcule93 = -1 .
IF ule5 = -9 tcule93 = -8 .
IF tcule93 = 999 tcule93 = -9 .

*-----.
*tcul493 - permanent.
NUMERIC tcul493 (F2).
VARIABLE LABELS tcul493 "UL4 permanent - summary (1993)".

COMPUTE tcul493 = 999.
IF (ul4d=1 & ul4o=1 & ul4m=1 & ul4b=1 & ul4l=1) OR (any(2, ul4d, ul4o, ul4m, ul4b, ul4l) OR any(3, ul4d, ul4o, ul4m, ul4b, ul4l) OR
      any(4, ul4d, ul4o, ul4m, ul4b, ul4l)) tcul493 = 0.
IF ul4d = 14 tcul493 = 1.
IF ul4d = 15 tcul493 = 3.
IF ul4d = 16 tcul493 = 2.
IF ul4d = 17 tcul493 = 4.
IF any(13, ul4d, ul4o, ul4m, ul4b, ul4l) tcul493 = 12.
IF any(12, ul4d, ul4o, ul4m, ul4b, ul4l) tcul493 = 11.
IF any(11, ul4d, ul4o, ul4m, ul4b, ul4l) tcul493 = 10.
IF (any(7, ul4d, ul4o, ul4m, ul4b, ul4l) OR any(9, ul4d, ul4o, ul4m, ul4b, ul4l)) tcul493 = 9.
IF any(10, ul4d, ul4o, ul4m, ul4b, ul4l) tcul493 = 8.
IF any(5, ul4d, ul4o, ul4m, ul4b, ul4l) tcul493 = 7.
IF any(6, ul4d, ul4o, ul4m, ul4b, ul4l) tcul493 = 6.
IF any(8, ul4d, ul4o, ul4m, ul4b, ul4l) tcul493 = 5.
IF uld4 = 2 tcul493 = -1 .
IF uld4 = -9 tcul493 = -8 .
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IF tcul493 = 999 tcul493 = -9 .

*-----.
*tcul493 decid.
NUMERIC tculd93 (F2).
VARIABLE LABELS tculd93 "UL4 deciduous - summary (1993)".

COMPUTE tculd93 = 999.
IF (ul4d=1 & ul4o=1 & ul4m=1 & ul4b=1 & ul4l=1) OR (any(2, ul4d, ul4o, ul4m, ul4b, ul4l) OR any(3, ul4d, ul4o, ul4m, ul4b, ul4l) OR
      any(4, ul4d, ul4o, ul4m, ul4b, ul4l)) tculd93 = 0.
IF any(13, ul4d, ul4o, ul4m, ul4b, ul4l) tculd93 = 12.
IF any(12, ul4d, ul4o, ul4m, ul4b, ul4l) tculd93 = 11.
IF any(11, ul4d, ul4o, ul4m, ul4b, ul4l) tculd93 = 10.
IF (any(7, ul4d, ul4o, ul4m, ul4b, ul4l) OR any(9, ul4d, ul4o, ul4m, ul4b, ul4l)) tculd93 = 9.
IF any(10, ul4d, ul4o, ul4m, ul4b, ul4l) tculd93 = 8.
IF any(5, ul4d, ul4o, ul4m, ul4b, ul4l) tculd93 = 7.
IF any(6, ul4d, ul4o, ul4m, ul4b, ul4l) tculd93 = 6.
IF any(8, ul4d, ul4o, ul4m, ul4b, ul4l) tculd93 = 5.
IF uld4 = 1 tculd93 = -1 .
IF uld4 = -9 tculd93 = -8 .
IF tculd93 = 999 tculd93 = -9 .

*-----.
*tcul393 - permanent.
NUMERIC tcul393 (F2).
VARIABLE LABELS tcul393 "UL3 permanent - summary (1993)".

COMPUTE tcul393 = 999.
IF (ul3d=1 & ul3m=1 & ul3b=1 & ul3l=1) OR (any(2, ul3d, ul3m, ul3b, ul3l) OR any(3, ul3d, ul3m, ul3b, ul3l) OR
      any(4, ul3d, ul3m, ul3b, ul3l)) tcul393 = 0.
IF ul3d = 14 tcul393 = 1.
IF ul3d = 15 tcul393 = 3.
IF ul3d = 16 tcul393 = 2.
IF ul3d = 17 tcul393 = 4.
IF any(13, ul3d, ul3m, ul3b, ul3l) tcul393 = 12.
IF any(12, ul3d, ul3m, ul3b, ul3l) tcul393 = 11.
IF any(11, ul3d, ul3m, ul3b, ul3l) tcul393 = 10.
IF (any(7, ul3d, ul3m, ul3b, ul3l) OR any(9, ul3d, ul3m, ul3b, ul3l)) tcul393 = 9.
IF any(10, ul3d, ul3m, ul3b, ul3l) tcul393 = 8.
IF any(5, ul3d, ul3m, ul3b, ul3l) tcul393 = 7.
IF any(6, ul3d, ul3m, ul3b, ul3l) tcul393 = 6.
IF any(8, ul3d, ul3m, ul3b, ul3l) tcul393 = 5.
IF ulc3 = 2 tcul393 = -1 .
IF ulc3 = -9 tcul393 = -8 .
IF tcul393 = 999 tcul393 = -9 .

*-----.
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```
*tcul393 decid.
NUMERIC tculc93 (F2).
VARIABLE LABELS tculc93 "UL3 deciduous - summary (1993)".

COMPUTE tculc93 = 999.
IF (ul3d=1 & ul3m=1 & ul3b=1 & ul3l=1) OR (any(2, ul3d, ul3m, ul3b, ul3l) OR any(3, ul3d, ul3m, ul3b, ul3l) OR
      any(4, ul3d, ul3m, ul3b, ul3l)) tculc93 = 0.
IF any(13, ul3d, ul3m, ul3b, ul3l) tculc93 = 12.
IF any(12, ul3d, ul3m, ul3b, ul3l) tculc93 = 11.
IF any(11, ul3d, ul3m, ul3b, ul3l) tculc93 = 10.
IF (any(7, ul3d, ul3m, ul3b, ul3l) OR any(9, ul3d, ul3m, ul3b, ul3l)) tculc93 = 9.
IF any(10, ul3d, ul3m, ul3b, ul3l) tculc93 = 8.
IF any(5, ul3d, ul3m, ul3b, ul3l) tculc93 = 7.
IF any(6, ul3d, ul3m, ul3b, ul3l) tculc93 = 6.
IF any(8, ul3d, ul3m, ul3b, ul3l) tculc93 = 5.
IF ulc3 = 1 tculc93 = -1 .
IF ulc3 = -9 tculc93 = -8 .
IF tculc93 = 999 tculc93 = -9 .

*-----.
*tcul293 - permanent.
NUMERIC tcul293 (F2).
VARIABLE LABELS tcul293 "UL2 permanent - summary (1993)".

COMPUTE tcul293 = 999.
IF (ul2d=1 & ul2m=1 & ul2b=1 & ul2l=1) OR (any(2, ul2d, ul2m, ul2b, ul2l) OR any(3, ul2d, ul2m, ul2b, ul2l) OR
      any(4, ul2d, ul2m, ul2b, ul2l)) tcul293 = 0.
IF ul2d = 14 tcul293 = 1.
IF ul2d = 15 tcul293 = 3.
IF ul2d = 16 tcul293 = 2.
IF ul2d = 17 tcul293 = 4.
IF any(13, ul2d, ul2m, ul2b, ul2l) tcul293 = 12.
IF any(12, ul2d, ul2m, ul2b, ul2l) tcul293 = 11.
IF any(11, ul2d, ul2m, ul2b, ul2l) tcul293 = 10.
IF (any(7, ul2d, ul2m, ul2b, ul2l) OR any(9, ul2d, ul2m, ul2b, ul2l)) tcul293 = 9.
IF any(10, ul2d, ul2m, ul2b, ul2l) tcul293 = 8.
IF any(5, ul2d, ul2m, ul2b, ul2l) tcul293 = 7.
IF any(6, ul2d, ul2m, ul2b, ul2l) tcul293 = 6.
IF any(8, ul2d, ul2m, ul2b, ul2l) tcul293 = 5.
IF ulb2 = 2 tcul293 = -1 .
IF ulb2 = -9 tcul293 = -8 .
IF tcul293 = 999 tcul293 = -9 .

*-----.
*tcul293 decid.
NUMERIC  tculb93 (F2).
VARIABLE LABELS  tculb93 "UL2 deciduous - summary (1993)".
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COMPUTE  tculb93 = 999.
IF (ul2d=1 & ul2m=1 & ul2b=1 & ul2l=1) OR (any(2, ul2d, ul2m, ul2b, ul2l) OR any(3, ul2d, ul2m, ul2b, ul2l) OR
      any(4, ul2d, ul2m, ul2b, ul2l))  tculb93 = 0.
IF any(13, ul2d, ul2m, ul2b, ul2l)  tculb93 = 12.
IF any(12, ul2d, ul2m, ul2b, ul2l)  tculb93 = 11.
IF any(11, ul2d, ul2m, ul2b, ul2l)  tculb93 = 10.
IF (any(7, ul2d, ul2m, ul2b, ul2l) OR any(9, ul2d, ul2m, ul2b, ul2l))  tculb93 = 9.
IF any(10, ul2d, ul2m, ul2b, ul2l)  tculb93 = 8.
IF any(5, ul2d, ul2m, ul2b, ul2l)  tculb93 = 7.
IF any(6, ul2d, ul2m, ul2b, ul2l)  tculb93 = 6.
IF any(8, ul2d, ul2m, ul2b, ul2l)  tculb93 = 5.
IF ulb2 = 1 tculb93 = -1 .
IF ulb2 = -9 tculb93 = -8 .
IF  tculb93 = 999  tculb93 = -9 .

*-----.
*tcul193 - permanent.
NUMERIC tcul193 (F2).
VARIABLE LABELS tcul193 "UL1 permanent - summary (1993)".

COMPUTE tcul193 = 999.
IF (ul1d=1 & ul1m=1 & ul1b=1 & ul1l=1) OR (any(2, ul1d, ul1m, ul1b, ul1l) OR any(3, ul1d, ul1m, ul1b, ul1l) OR
      any(4, ul1d, ul1m, ul1b, ul1l)) tcul193 = 0.
IF ul1d = 14 tcul193 = 1.
IF ul1d = 15 tcul193 = 3.
IF ul1d = 16 tcul193 = 2.
IF ul1d = 17 tcul193 = 4.
IF any(13, ul1d, ul1m, ul1b, ul1l) tcul193 = 12.
IF any(12, ul1d, ul1m, ul1b, ul1l) tcul193 = 11.
IF any(11, ul1d, ul1m, ul1b, ul1l) tcul193 = 10.
IF (any(7, ul1d, ul1m, ul1b, ul1l) OR any(9, ul1d, ul1m, ul1b, ul1l)) tcul193 = 9.
IF any(10, ul1d, ul1m, ul1b, ul1l) tcul193 = 8.
IF any(5, ul1d, ul1m, ul1b, ul1l) tcul193 = 7.
IF any(6, ul1d, ul1m, ul1b, ul1l) tcul193 = 6.
IF any(8, ul1d, ul1m, ul1b, ul1l) tcul193 = 5.
IF ula1 = 2 tcul193 = -1 .
IF ula1 = -9 tcul193 = -8 .
IF tcul193 = 999 tcul193 = -9 .

*-----.
*tcul193 decid.
NUMERIC  tcula93 (F2).
VARIABLE LABELS  tcula93 "UL1 deciduous - summary (1993)".

COMPUTE  tcula93 = 999.
IF (ul1d=1 & ul1m=1 & ul1b=1 & ul1l=1) OR (any(2, ul1d, ul1m, ul1b, ul1l) OR any(3, ul1d, ul1m, ul1b, ul1l) OR
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      any(4, ul1d, ul1m, ul1b, ul1l))  tcula93 = 0.
IF any(13, ul1d, ul1m, ul1b, ul1l)  tcula93 = 12.
IF any(12, ul1d, ul1m, ul1b, ul1l)  tcula93 = 11.
IF any(11, ul1d, ul1m, ul1b, ul1l)  tcula93 = 10.
IF (any(7, ul1d, ul1m, ul1b, ul1l) OR any(9, ul1d, ul1m, ul1b, ul1l))  tcula93 = 9.
IF any(10, ul1d, ul1m, ul1b, ul1l)  tcula93 = 8.
IF any(5, ul1d, ul1m, ul1b, ul1l)  tcula93 = 7.
IF any(6, ul1d, ul1m, ul1b, ul1l)  tcula93 = 6.
IF any(8, ul1d, ul1m, ul1b, ul1l)  tcula93 = 5.
IF ula1 = 1 tcula93 = -1 .
IF ula1 = -9 tcula93 = -8 .
IF  tcula93 = 999  tcula93 = -9 .

*-----.
VALUE LABELS tcur793 TO tcula93
      -9 "Not coded"
      -8 "Tooth type not coded"
      -1 "Not applicable"
      0 "sound"
      1 "unerrupted"
      2 "extracted -caries"
      3 "extracted - ortho"
      4 "extracted - trauma"
      5 "filled and decayed"
      6 "tooth decayed-pulpal involvement"
      7 "tooth decayed"
      8 "tooth filled - filling needs replacing"
      9 "Tooth filled"
      10 "sealed surface"
      11 "traumatised surface"
      12 "crown advanced restoration".

FRE tcur793 TO tcula93.
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missing values all() .

*2003 codes
0 'sound' 1 'unerrupted' 2 'extracted -caries' 3 'extracted - ortho'
4 'extracted - trauma' 5 'filled and decayed' 6 'tooth decayed-pulpal involvement' 7 ' tooth decayed'
8 'tooth filled - filling needs replacing' 9 'Tooth filled' 10 'sealed surface' 11'traumatised surface' 12 'crown advanced restoration'.

*2013 codes (revised so that restorations trump enamel caries).
*1 'sound' 2 'unerupted' 3 'extracted (ortho)'  4 'extracted (caries)' 5 'extracted (trauma)' 6 'enamel caries' 7 'filled and decayed'
  8 'decayed - pulpal involvement' 9 'visual/cavitated caries' 10 'filling needs replacement, no decay'
 11 'sound filling - no decay' 12 'obviously sealed surface' 13 'traumatised surface'  14 'crown or advanced restoration
***code individual teeth .

***tclr7 .
compute tclr7=999 .
if (lr7d=1 & lr7o=1 & lr7m=1 & lr7b=1 & lr7l=1) tclr7 = 1 .
if lr7d = 14 tclr7 = 2 .
if lr7d = 15 tclr7 = 3 .
if lr7d = 16 tclr7 = 4 .
if lr7d = 17 tclr7 = 5 .
if (any(2, lr7d, lr7o, lr7m, lr7b, lr7l) or any(3, lr7d, lr7o, lr7m, lr7b, lr7l)) tclr7 = 6 .
if any(13, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7 = 14 .
if any(12, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7 = 13 .
if any(11, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7 = 12 .
if any(9, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7 = 11 .
if any(10, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7 = 10 .
if (any(4, lr7d, lr7o, lr7m, lr7b, lr7l) or any(5, lr7d, lr7o, lr7m, lr7b, lr7l)) tclr7 = 9 .
if any(6, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7 = 8 .
if (any(7, lr7d, lr7o, lr7m, lr7b, lr7l) or any(8, lr7d, lr7o, lr7m, lr7b, lr7l)) tclr7 = 7 .
if tclr7 = 999 tclr7 = -9 .
var lab tclr7 'LR7 - summary (2013) ' .

***tclr6 .
compute tclr6=999 .
if (lr6d=1 & lr6o=1 & lr6m=1 & lr6b=1 & lr6l=1) tclr6 = 1 .
if lr6d = 14 tclr6 = 2 .
if lr6d = 15 tclr6 = 3 .
if lr6d = 16 tclr6 = 4 .
if lr6d = 17 tclr6 = 5 .
if (any(2, lr6d, lr6o, lr6m, lr6b, lr6l) or any(3, lr6d, lr6o, lr6m, lr6b, lr6l)) tclr6 = 6 .
if any(13, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6 = 14 .
if any(12, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6 = 13 .
if any(11, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6 = 12 .
if any(9, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6 = 11 .
if any(10, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6 = 10 .
if (any(4, lr6d, lr6o, lr6m, lr6b, lr6l) or any(5, lr6d, lr6o, lr6m, lr6b, lr6l)) tclr6 = 9 .
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if any(6, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6 = 8 .
if (any(7, lr6d, lr6o, lr6m, lr6b, lr6l) or any(8, lr6d, lr6o, lr6m, lr6b, lr6l)) tclr6 = 7 .
if tclr6 = 999 tclr6 = -9 .
var lab tclr6 'LR6 - summary (2013) ' .

***tclr5 permanent .
compute tclr5=999 .
if (lr5d=1 & lr5o=1 & lr5m=1 & lr5b=1 & lr5l=1) tclr5 = 1 .
if lr5d = 14 tclr5 = 2 .
if lr5d = 15 tclr5 = 3 .
if lr5d = 16 tclr5 = 4 .
if lr5d = 17 tclr5 = 5 .
if (any(2, lr5d, lr5o, lr5m, lr5b, lr5l) or any(3, lr5d, lr5o, lr5m, lr5b, lr5l)) tclr5 = 6 .
if any(13, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5 = 14 .
if any(12, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5 = 13 .
if any(11, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5 = 12 .
if any(9, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5 = 11 .
if any(10, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5 = 10 .
if (any(4, lr5d, lr5o, lr5m, lr5b, lr5l) or any(5, lr5d, lr5o, lr5m, lr5b, lr5l)) tclr5 = 9 .
if any(6, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5 = 8 .
if (any(7, lr5d, lr5o, lr5m, lr5b, lr5l) or any(8, lr5d, lr5o, lr5m, lr5b, lr5l)) tclr5 = 7 .
if lre5 = 2 tclr5 = -1 .
if lre5 = -9 tclr5 = -8 .
if tclr5 = 999 tclr5 = -9 .
var lab tclr5 'LR5 permanent - summary (2013) ' .

***tclr5 decid .
compute tclre=999 .
if (lr5d=1 & lr5o=1 & lr5m=1 & lr5b=1 & lr5l=1) tclre = 1 .
if (any(2, lr5d, lr5o, lr5m, lr5b, lr5l) or any(3, lr5d, lr5o, lr5m, lr5b, lr5l)) tclre = 6 .
if any(13, lr5d, lr5o, lr5m, lr5b, lr5l) tclre = 14 .
if any(12, lr5d, lr5o, lr5m, lr5b, lr5l) tclre = 13 .
if any(11, lr5d, lr5o, lr5m, lr5b, lr5l) tclre = 12 .
if any(9, lr5d, lr5o, lr5m, lr5b, lr5l) tclre = 11 .
if any(10, lr5d, lr5o, lr5m, lr5b, lr5l) tclre = 10 .
if (any(4, lr5d, lr5o, lr5m, lr5b, lr5l) or any(5, lr5d, lr5o, lr5m, lr5b, lr5l)) tclre = 9 .
if any(6, lr5d, lr5o, lr5m, lr5b, lr5l) tclre = 8 .
if (any(7, lr5d, lr5o, lr5m, lr5b, lr5l) or any(8, lr5d, lr5o, lr5m, lr5b, lr5l)) tclre = 7 .
if lre5 = 1 tclre = -1 .
if lre5 = -9 tclre = -8 .
if tclre = 999 tclre = -9 .
var lab tclre 'LR5 deciduous - summary (2013) ' .

***tclr4 perm .
compute tclr4=999 .
if (lr4d=1 & lr4o=1 & lr4m=1 & lr4b=1 & lr4l=1) tclr4 = 1 .
if lr4d = 14 tclr4 = 2 .
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if lr4d = 15 tclr4 = 3 .
if lr4d = 16 tclr4 = 4 .
if lr4d = 17 tclr4 = 5 .
if (any(2, lr4d, lr4o, lr4m, lr4b, lr4l) or any(3, lr4d, lr4o, lr4m, lr4b, lr4l)) tclr4 = 6 .
if any(13, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4 = 14 .
if any(12, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4 = 13 .
if any(11, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4 = 12 .
if any(9, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4 = 11 .
if any(10, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4 = 10 .
if (any(4, lr4d, lr4o, lr4m, lr4b, lr4l) or any(5, lr4d, lr4o, lr4m, lr4b, lr4l)) tclr4 = 9 .
if any(6, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4 = 8 .
if (any(7, lr4d, lr4o, lr4m, lr4b, lr4l) or any(8, lr4d, lr4o, lr4m, lr4b, lr4l)) tclr4 = 7 .
if lrd4 = 2 tclr4 = -1 .
if lrd4 = -9 tclr4 = -8 .
if tclr4 = 999 tclr4 = -9 .
var lab tclr4 'LR4 permanent - summary (2013) ' .

***tclr4 decid .
compute tclrd=999 .
if (lr4d=1 & lr4o=1 & lr4m=1 & lr4b=1 & lr4l=1) tclrd = 1 .
if (any(2, lr4d, lr4o, lr4m, lr4b, lr4l) or any(3, lr4d, lr4o, lr4m, lr4b, lr4l)) tclrd = 6 .
if any(13, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd = 14 .
if any(12, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd = 13 .
if any(11, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd = 12 .
if any(9, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd = 11 .
if any(10, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd = 10 .
if (any(4, lr4d, lr4o, lr4m, lr4b, lr4l) or any(5, lr4d, lr4o, lr4m, lr4b, lr4l)) tclrd = 9 .
if any(6, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd = 8 .
if (any(7, lr4d, lr4o, lr4m, lr4b, lr4l) or any(8, lr4d, lr4o, lr4m, lr4b, lr4l)) tclrd = 7 .
if lrd4 = 1 tclrd = -1 .
if lrd4 = -9 tclrd = -8 .
if tclrd = 999 tclrd = -9 .
var lab tclrd 'LR4 deciduous - summary (2013) ' .

***tclr3 perm .
compute tclr3=999 .
if (lr3d=1 & lr3m=1 & lr3b=1 & lr3l=1) tclr3 = 1 .
if lr3d = 14 tclr3 = 2 .
if lr3d = 15 tclr3 = 3 .
if lr3d = 16 tclr3 = 4 .
if lr3d = 17 tclr3 = 5 .
if (any(2, lr3d, lr3m, lr3b, lr3l) or any(3, lr3d, lr3m, lr3b, lr3l)) tclr3 = 6 .
if any(13, lr3d, lr3m, lr3b, lr3l) tclr3 = 14 .
if any(12, lr3d, lr3m, lr3b, lr3l) tclr3 = 13 .
if any(11, lr3d, lr3m, lr3b, lr3l) tclr3 = 12 .
if any(9, lr3d, lr3m, lr3b, lr3l) tclr3 = 11 .
if any(10, lr3d, lr3m, lr3b, lr3l) tclr3 = 10 .
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if (any(4, lr3d, lr3m, lr3b, lr3l) or any(5, lr3d, lr3m, lr3b, lr3l)) tclr3 = 9 .
if any(6, lr3d, lr3m, lr3b, lr3l) tclr3 = 8 .
if (any(7, lr3d, lr3m, lr3b, lr3l) or any(8, lr3d, lr3m, lr3b, lr3l)) tclr3 = 7 .
if lrc3 = 2 tclr3 = -1 .
if lrc3 = -9 tclr3 = -8 .
if tclr3 = 999 tclr3 = -9 .
var lab tclr3 'LR3 permanent - summary (2013) ' .

***tclr3 decid .
compute tclrc=999 .
if (lr3d=1 & lr3m=1 & lr3b=1 & lr3l=1) tclrc = 1 .
if (any(2, lr3d, lr3m, lr3b, lr3l) or any(3, lr3d, lr3m, lr3b, lr3l)) tclrc = 6 .
if any(13, lr3d, lr3m, lr3b, lr3l) tclrc = 14 .
if any(12, lr3d, lr3m, lr3b, lr3l) tclrc = 13 .
if any(11, lr3d, lr3m, lr3b, lr3l) tclrc = 12 .
if any(9, lr3d, lr3m, lr3b, lr3l) tclrc = 11 .
if any(10, lr3d, lr3m, lr3b, lr3l) tclrc = 10 .
if (any(4, lr3d, lr3m, lr3b, lr3l) or any(5, lr3d, lr3m, lr3b, lr3l)) tclrc = 9 .
if any(6, lr3d, lr3m, lr3b, lr3l) tclrc = 8 .
if (any(7, lr3d, lr3m, lr3b, lr3l) or any(8, lr3d, lr3m, lr3b, lr3l)) tclrc = 7 .
if lrc3 = 1 tclrc = -1 .
if lrc3 = -9 tclrc = -8 .
if tclrc = 999 tclrc = -9 .
var lab tclrc 'LR3 deciduous - summary (2013) ' .

***tclr2 perm .
compute tclr2=999 .
if (lr2d=1 & lr2m=1 & lr2b=1 & lr2l=1) tclr2 = 1 .
if lr2d = 14 tclr2 = 2 .
if lr2d = 15 tclr2 = 3 .
if lr2d = 16 tclr2 = 4 .
if lr2d = 17 tclr2 = 5 .
if (any(2, lr2d, lr2m, lr2b, lr2l) or any(3, lr2d, lr2m, lr2b, lr2l)) tclr2 = 6 .
if any(13, lr2d, lr2m, lr2b, lr2l) tclr2 = 14 .
if any(12, lr2d, lr2m, lr2b, lr2l) tclr2 = 13 .
if any(11, lr2d, lr2m, lr2b, lr2l) tclr2 = 12 .
if any(9, lr2d, lr2m, lr2b, lr2l) tclr2 = 11 .
if any(10, lr2d, lr2m, lr2b, lr2l) tclr2 = 10 .
if (any(4, lr2d, lr2m, lr2b, lr2l) or any(5, lr2d, lr2m, lr2b, lr2l)) tclr2 = 9 .
if any(6, lr2d, lr2m, lr2b, lr2l) tclr2 = 8 .
if (any(7, lr2d, lr2m, lr2b, lr2l) or any(8, lr2d, lr2m, lr2b, lr2l)) tclr2 = 7 .
if lrb2 = 2 tclr2 = -1 .
if lrb2 = -9 tclr2 = -8 .
if tclr2 = 999 tclr2 = -9 .
var lab tclr2 'LR2 permanent - summary (2013) ' .

***tclr2 decid .
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compute tclrb=999 .
if (lr2d=1 & lr2m=1 & lr2b=1 & lr2l=1) tclrb = 1 .
if (any(2, lr2d, lr2m, lr2b, lr2l) or any(3, lr2d, lr2m, lr2b, lr2l)) tclrb = 6 .
if any(13, lr2d, lr2m, lr2b, lr2l) tclrb = 14 .
if any(12, lr2d, lr2m, lr2b, lr2l) tclrb = 13 .
if any(11, lr2d, lr2m, lr2b, lr2l) tclrb = 12 .
if any(9, lr2d, lr2m, lr2b, lr2l) tclrb = 11 .
if any(10, lr2d, lr2m, lr2b, lr2l) tclrb = 10 .
if (any(4, lr2d, lr2m, lr2b, lr2l) or any(5, lr2d, lr2m, lr2b, lr2l)) tclrb = 9 .
if any(6, lr2d, lr2m, lr2b, lr2l) tclrb = 8 .
if (any(7, lr2d, lr2m, lr2b, lr2l) or any(8, lr2d, lr2m, lr2b, lr2l)) tclrb = 7 .
if lrb2 = 1 tclrb = -1 .
if lrb2 = -9 tclrb = -8 .
if tclrb = 999 tclrb = -9 .
var lab tclrb 'LR2 deciduous - summary (2013) ' .

***tclr1 perm .
compute tclr1=999 .
if (lr1d=1 & lr1m=1 & lr1b=1 & lr1l=1) tclr1 = 1 .
if lr1d = 14 tclr1 = 2 .
if lr1d = 15 tclr1 = 3 .
if lr1d = 16 tclr1 = 4 .
if lr1d = 17 tclr1 = 5 .
if (any(2, lr1d, lr1m, lr1b, lr1l) or any(3, lr1d, lr1m, lr1b, lr1l)) tclr1 = 6 .
if any(13, lr1d, lr1m, lr1b, lr1l) tclr1 = 14 .
if any(12, lr1d, lr1m, lr1b, lr1l) tclr1 = 13 .
if any(11, lr1d, lr1m, lr1b, lr1l) tclr1 = 12 .
if any(9, lr1d, lr1m, lr1b, lr1l) tclr1 = 11 .
if any(10, lr1d, lr1m, lr1b, lr1l) tclr1 = 10 .
if (any(4, lr1d, lr1m, lr1b, lr1l) or any(5, lr1d, lr1m, lr1b, lr1l)) tclr1 = 9 .
if any(6, lr1d, lr1m, lr1b, lr1l) tclr1 = 8 .
if (any(7, lr1d, lr1m, lr1b, lr1l) or any(8, lr1d, lr1m, lr1b, lr1l)) tclr1 = 7 .
if lra1 = 2 tclr1 = -1 .
if lra1 = -9 tclr1 = -8 .
if tclr1 = 999 tclr1 = -9 .
var lab tclr1 'LR1 permanent - summary (2013) ' .

***tclr1 decid .
compute tclra=999 .
if (lr1d=1 & lr1m=1 & lr1b=1 & lr1l=1) tclra = 1 .
if (any(2, lr1d, lr1m, lr1b, lr1l) or any(3, lr1d, lr1m, lr1b, lr1l)) tclra = 6 .
if any(13, lr1d, lr1m, lr1b, lr1l) tclra = 14 .
if any(12, lr1d, lr1m, lr1b, lr1l) tclra = 13 .
if any(11, lr1d, lr1m, lr1b, lr1l) tclra = 12 .
if any(9, lr1d, lr1m, lr1b, lr1l) tclra = 11 .
if any(10, lr1d, lr1m, lr1b, lr1l) tclra = 10 .
if (any(4, lr1d, lr1m, lr1b, lr1l) or any(5, lr1d, lr1m, lr1b, lr1l)) tclra = 9 .
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```
if any(6, lr1d, lr1m, lr1b, lr1l) tclra = 8 .
if (any(7, lr1d, lr1m, lr1b, lr1l) or any(8, lr1d, lr1m, lr1b, lr1l)) tclra = 7 .
if tclra = 999 tclra = -9 .
if lra1 = 1 tclra = -1 .
if lra1 = -9 tclra = -8 .
if tclra = 999 tclra = -9 .
var lab tclra 'LR1 deciduous - summary (2013) ' .

*****************************************************************************************************************.
*****************************************************************************************************************.

***tcll1 perm .
compute tcll1=999 .
if (ll1d=1 & ll1m=1 & ll1b=1 & ll1l=1) tcll1 = 1 .
if ll1d = 14 tcll1 = 2 .
if ll1d = 15 tcll1 = 3 .
if ll1d = 16 tcll1 = 4 .
if ll1d = 17 tcll1 = 5 .
if (any(2, ll1d, ll1m, ll1b, ll1l) or any(3, ll1d, ll1m, ll1b, ll1l)) tcll1 = 6 .
if any(13, ll1d, ll1m, ll1b, ll1l) tcll1 = 14 .
if any(12, ll1d, ll1m, ll1b, ll1l) tcll1 = 13 .
if any(11, ll1d, ll1m, ll1b, ll1l) tcll1 = 12 .
if any(9, ll1d, ll1m, ll1b, ll1l) tcll1 = 11 .
if any(10, ll1d, ll1m, ll1b, ll1l) tcll1 = 10 .
if (any(4, ll1d, ll1m, ll1b, ll1l) or any(5, ll1d, ll1m, ll1b, ll1l)) tcll1 = 9 .
if any(6, ll1d, ll1m, ll1b, ll1l) tcll1 = 8 .
if (any(7, ll1d, ll1m, ll1b, ll1l) or any(8, ll1d, ll1m, ll1b, ll1l)) tcll1 = 7 .
if lla1 = 2 tcll1 = -1 .
if lla1 = -9 tcll1 = -8 .
if tcll1 = 999 tcll1 = -9 .
var lab tcll1 'LL1 permanent - summary (2013) ' .

***tcll1 decid .
compute tclla=999 .
if (ll1d=1 & ll1m=1 & ll1b=1 & ll1l=1) tclla = 1 .
if (any(2, ll1d, ll1m, ll1b, ll1l) or any(3, ll1d, ll1m, ll1b, ll1l)) tclla = 6 .
if any(13, ll1d, ll1m, ll1b, ll1l) tclla = 14 .
if any(12, ll1d, ll1m, ll1b, ll1l) tclla = 13 .
if any(11, ll1d, ll1m, ll1b, ll1l) tclla = 12 .
if any(9, ll1d, ll1m, ll1b, ll1l) tclla = 11 .
if any(10, ll1d, ll1m, ll1b, ll1l) tclla = 10 .
if (any(4, ll1d, ll1m, ll1b, ll1l) or any(5, ll1d, ll1m, ll1b, ll1l)) tclla = 9 .
if any(6, ll1d, ll1m, ll1b, ll1l) tclla = 8 .
if (any(7, ll1d, ll1m, ll1b, ll1l) or any(8, ll1d, ll1m, ll1b, ll1l)) tclla = 7 .
if tclla = 999 tclla = -9 .
if lla1 = 1 tclla = -1 .
if lla1 = -9 tclla = -8 .
```

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if tclla = 999 tclla = -9 .
var lab tclla 'LL1 deciduous - summary (2013) ' .

***tcll2 perm .
compute tcll2=999 .
if (ll2d=1 & ll2m=1 & ll2b=1 & ll2l=1) tcll2 = 1 .
if ll2d = 14 tcll2 = 2 .
if ll2d = 15 tcll2 = 3 .
if ll2d = 16 tcll2 = 4 .
if ll2d = 17 tcll2 = 5 .
if (any(2, ll2d, ll2m, ll2b, ll2l) or any(3, ll2d, ll2m, ll2b, ll2l)) tcll2 = 6 .
if any(13, ll2d, ll2m, ll2b, ll2l) tcll2 = 14 .
if any(12, ll2d, ll2m, ll2b, ll2l) tcll2 = 13 .
if any(11, ll2d, ll2m, ll2b, ll2l) tcll2 = 12 .
if any(9, ll2d, ll2m, ll2b, ll2l) tcll2 = 11 .
if any(10, ll2d, ll2m, ll2b, ll2l) tcll2 = 10 .
if (any(4, ll2d, ll2m, ll2b, ll2l) or any(5, ll2d, ll2m, ll2b, ll2l)) tcll2 = 9 .
if any(6, ll2d, ll2m, ll2b, ll2l) tcll2 = 8 .
if (any(7, ll2d, ll2m, ll2b, ll2l) or any(8, ll2d, ll2m, ll2b, ll2l)) tcll2 = 7 .
if llb2 = 2 tcll2 = -1 .
if llb2 = -9 tcll2 = -8 .
if tcll2 = 999 tcll2 = -9 .
var lab tcll2 'LL2 permanent - summary (2013) ' .

***tcll2 decid .
compute tcllb=999 .
if (ll2d=1 & ll2m=1 & ll2b=1 & ll2l=1) tcllb = 1 .
if (any(2, ll2d, ll2m, ll2b, ll2l) or any(3, ll2d, ll2m, ll2b, ll2l)) tcllb = 6 .
if any(13, ll2d, ll2m, ll2b, ll2l) tcllb = 14 .
if any(12, ll2d, ll2m, ll2b, ll2l) tcllb = 13 .
if any(11, ll2d, ll2m, ll2b, ll2l) tcllb = 12 .
if any(9, ll2d, ll2m, ll2b, ll2l) tcllb = 11 .
if any(10, ll2d, ll2m, ll2b, ll2l) tcllb = 10 .
if (any(4, ll2d, ll2m, ll2b, ll2l) or any(5, ll2d, ll2m, ll2b, ll2l)) tcllb = 9 .
if any(6, ll2d, ll2m, ll2b, ll2l) tcllb = 8 .
if (any(7, ll2d, ll2m, ll2b, ll2l) or any(8, ll2d, ll2m, ll2b, ll2l)) tcllb = 7 .
if llb2 = 1 tcllb = -1 .
if llb2 = -9 tcllb = -8 .
if tcllb = 999 tcllb = -9 .
var lab tcllb 'LL2 deciduous - summary (2013) ' .

***tcll3 perm .
compute tcll3=999 .
if (ll3d=1 & ll3m=1 & ll3b=1 & ll3l=1) tcll3 = 1 .
if ll3d = 14 tcll3 = 2 .
if ll3d = 15 tcll3 = 3 .
if ll3d = 16 tcll3 = 4 .
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if ll3d = 17 tcll3 = 5 .
if (any(2, ll3d, ll3m, ll3b, ll3l) or any(3, ll3d, ll3m, ll3b, ll3l)) tcll3 = 6 .
if any(13, ll3d, ll3m, ll3b, ll3l) tcll3 = 14 .
if any(12, ll3d, ll3m, ll3b, ll3l) tcll3 = 13 .
if any(11, ll3d, ll3m, ll3b, ll3l) tcll3 = 12 .
if any(9, ll3d, ll3m, ll3b, ll3l) tcll3 = 11 .
if any(10, ll3d, ll3m, ll3b, ll3l) tcll3 = 10 .
if (any(4, ll3d, ll3m, ll3b, ll3l) or any(5, ll3d, ll3m, ll3b, ll3l)) tcll3 = 9 .
if any(6, ll3d, ll3m, ll3b, ll3l) tcll3 = 8 .
if (any(7, ll3d, ll3m, ll3b, ll3l) or any(8, ll3d, ll3m, ll3b, ll3l)) tcll3 = 7 .
if llc3 = 2 tcll3 = -1 .
if llc3 = -9 tcll3 = -8 .
if tcll3 = 999 tcll3 = -9 .
var lab tcll3 'LL3 permanent - summary (2013) ' .

***tcll3 decid .
compute tcllc=999 .
if (ll3d=1 & ll3m=1 & ll3b=1 & ll3l=1) tcllc = 1 .
if (any(2, ll3d, ll3m, ll3b, ll3l) or any(3, ll3d, ll3m, ll3b, ll3l)) tcllc = 6 .
if any(13, ll3d, ll3m, ll3b, ll3l) tcllc = 14 .
if any(12, ll3d, ll3m, ll3b, ll3l) tcllc = 13 .
if any(11, ll3d, ll3m, ll3b, ll3l) tcllc = 12 .
if any(9, ll3d, ll3m, ll3b, ll3l) tcllc = 11 .
if any(10, ll3d, ll3m, ll3b, ll3l) tcllc = 10 .
if (any(4, ll3d, ll3m, ll3b, ll3l) or any(5, ll3d, ll3m, ll3b, ll3l)) tcllc = 9 .
if any(6, ll3d, ll3m, ll3b, ll3l) tcllc = 8 .
if (any(7, ll3d, ll3m, ll3b, ll3l) or any(8, ll3d, ll3m, ll3b, ll3l)) tcllc = 7 .
if llc3 = 1 tcllc = -1 .
if llc3 = -9 tcllc = -8 .
if tcllc = 999 tcllc = -9 .
var lab tcllc 'LL3 deciduous - summary (2013) ' .

***tcll4 perm .
compute tcll4=999 .
if (ll4d=1 & ll4o=1 & ll4m=1 & ll4b=1 & ll4l=1) tcll4 = 1 .
if ll4d = 14 tcll4 = 2 .
if ll4d = 15 tcll4 = 3 .
if ll4d = 16 tcll4 = 4 .
if ll4d = 17 tcll4 = 5 .
if (any(2, ll4d, ll4o, ll4m, ll4b, ll4l) or any(3, ll4d, ll4o, ll4m, ll4b, ll4l)) tcll4 = 6 .
if any(13, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4 = 14 .
if any(12, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4 = 13 .
if any(11, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4 = 12 .
if any(9, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4 = 11 .
if any(10, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4 = 10 .
if (any(4, ll4d, ll4o, ll4m, ll4b, ll4l) or any(5, ll4d, ll4o, ll4m, ll4b, ll4l)) tcll4 = 9 .
if any(6, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4 = 8 .
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if (any(7, ll4d, ll4o, ll4m, ll4b, ll4l) or any(8, ll4d, ll4o, ll4m, ll4b, ll4l)) tcll4 = 7 .
if lld4 = 2 tcll4 = -1 .
if lld4 = -9 tcll4 = -8 .
if tcll4 = 999 tcll4 = -9 .
var lab tcll4 'LL4 permanent - summary (2013) ' .

***tcll4 decid .
compute tclld=999 .
if (ll4d=1 & ll4o=1 & ll4m=1 & ll4b=1 & ll4l=1) tclld = 1 .
if (any(2, ll4d, ll4o, ll4m, ll4b, ll4l) or any(3, ll4d, ll4o, ll4m, ll4b, ll4l)) tclld = 6 .
if any(13, ll4d, ll4o, ll4m, ll4b, ll4l) tclld = 14 .
if any(12, ll4d, ll4o, ll4m, ll4b, ll4l) tclld = 13 .
if any(11, ll4d, ll4o, ll4m, ll4b, ll4l) tclld = 12 .
if any(9, ll4d, ll4o, ll4m, ll4b, ll4l) tclld = 11 .
if any(10, ll4d, ll4o, ll4m, ll4b, ll4l) tclld = 10 .
if (any(4, ll4d, ll4o, ll4m, ll4b, ll4l) or any(5, ll4d, ll4o, ll4m, ll4b, ll4l)) tclld = 9 .
if any(6, ll4d, ll4o, ll4m, ll4b, ll4l) tclld = 8 .
if (any(7, ll4d, ll4o, ll4m, ll4b, ll4l) or any(8, ll4d, ll4o, ll4m, ll4b, ll4l)) tclld = 7 .
if lld4 = 1 tclld = -1 .
if lld4 = -9 tclld = -8 .
if tclld = 999 tclld = -9 .
var lab tclld 'LL4 deciduous - summary (2013) ' .

***tcll5 permanent .
compute tcll5=999 .
if (ll5d=1 & ll5o=1 & ll5m=1 & ll5b=1 & ll5l=1) tcll5 = 1 .
if ll5d = 14 tcll5 = 2 .
if ll5d = 15 tcll5 = 3 .
if ll5d = 16 tcll5 = 4 .
if ll5d = 17 tcll5 = 5 .
if (any(2, ll5d, ll5o, ll5m, ll5b, ll5l) or any(3, ll5d, ll5o, ll5m, ll5b, ll5l)) tcll5 = 6 .
if any(13, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5 = 14 .
if any(12, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5 = 13 .
if any(11, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5 = 12 .
if any(9, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5 = 11 .
if any(10, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5 = 10 .
if (any(4, ll5d, ll5o, ll5m, ll5b, ll5l) or any(5, ll5d, ll5o, ll5m, ll5b, ll5l)) tcll5 = 9 .
if any(6, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5 = 8 .
if (any(7, ll5d, ll5o, ll5m, ll5b, ll5l) or any(8, ll5d, ll5o, ll5m, ll5b, ll5l)) tcll5 = 7 .
if lle5 = 2 tcll5 = -1 .
if lle5 = -9 tcll5 = -8 .
if tcll5 = 999 tcll5 = -9 .
var lab tcll5 'LL5 permanent - summary (2013) ' .

***tcll5 decid .
compute tclle=999 .
if (ll5d=1 & ll5o=1 & ll5m=1 & ll5b=1 & ll5l=1) tclle = 1 .
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if (any(2, ll5d, ll5o, ll5m, ll5b, ll5l) or any(3, ll5d, ll5o, ll5m, ll5b, ll5l)) tclle = 6 .
if any(13, ll5d, ll5o, ll5m, ll5b, ll5l) tclle = 14 .
if any(12, ll5d, ll5o, ll5m, ll5b, ll5l) tclle = 13 .
if any(11, ll5d, ll5o, ll5m, ll5b, ll5l) tclle = 12 .
if any(9, ll5d, ll5o, ll5m, ll5b, ll5l) tclle = 11 .
if any(10, ll5d, ll5o, ll5m, ll5b, ll5l) tclle = 10 .
if (any(4, ll5d, ll5o, ll5m, ll5b, ll5l) or any(5, ll5d, ll5o, ll5m, ll5b, ll5l)) tclle = 9 .
if any(6, ll5d, ll5o, ll5m, ll5b, ll5l) tclle = 8 .
if (any(7, ll5d, ll5o, ll5m, ll5b, ll5l) or any(8, ll5d, ll5o, ll5m, ll5b, ll5l)) tclle = 7 .
if lle5 = 1 tclle = -1 .
if lle5 = -9 tclle = -8 .
if tclle = 999 tclle = -9 .
var lab tclle 'LL5 deciduous - summary (2013) ' .

***tcll6 .
compute tcll6=999 .
if (ll6d=1 & ll6o=1 & ll6m=1 & ll6b=1 & ll6l=1) tcll6 = 1 .
if ll6d = 14 tcll6 = 2 .
if ll6d = 15 tcll6 = 3 .
if ll6d = 16 tcll6 = 4 .
if ll6d = 17 tcll6 = 5 .
if (any(2, ll6d, ll6o, ll6m, ll6b, ll6l) or any(3, ll6d, ll6o, ll6m, ll6b, ll6l)) tcll6 = 6 .
if any(13, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6 = 14 .
if any(12, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6 = 13 .
if any(11, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6 = 12 .
if any(9, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6 = 11 .
if any(10, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6 = 10 .
if (any(4, ll6d, ll6o, ll6m, ll6b, ll6l) or any(5, ll6d, ll6o, ll6m, ll6b, ll6l)) tcll6 = 9 .
if any(6, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6 = 8 .
if (any(7, ll6d, ll6o, ll6m, ll6b, ll6l) or any(8, ll6d, ll6o, ll6m, ll6b, ll6l)) tcll6 = 7 .
if tcll6 = 999 tcll6 = -9 .
var lab tcll6 'LL6 - summary (2013) ' .

***tcll7 .
compute tcll7=999 .
if (ll7d=1 & ll7o=1 & ll7m=1 & ll7b=1 & ll7l=1) tcll7 = 1 .
if ll7d = 14 tcll7 = 2 .
if ll7d = 15 tcll7 = 3 .
if ll7d = 16 tcll7 = 4 .
if ll7d = 17 tcll7 = 5 .
if (any(2, ll7d, ll7o, ll7m, ll7b, ll7l) or any(3, ll7d, ll7o, ll7m, ll7b, ll7l)) tcll7 = 6 .
if any(13, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7 = 14 .
if any(12, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7 = 13 .
if any(11, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7 = 12 .
if any(9, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7 = 11 .
if any(10, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7 = 10 .
if (any(4, ll7d, ll7o, ll7m, ll7b, ll7l) or any(5, ll7d, ll7o, ll7m, ll7b, ll7l)) tcll7 = 9 .
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if any(6, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7 = 8 .
if (any(7, ll7d, ll7o, ll7m, ll7b, ll7l) or any(8, ll7d, ll7o, ll7m, ll7b, ll7l)) tcll7 = 7 .
if tcll7 = 999 tcll7 = -9 .
var lab tcll7 'LL7 - summary (2013) ' .


*temp.
*select if tcur6 = 999 .
*list serial ur6d to ur6l .

val lab tclr7 to tcll7 -9 'Not coded' -8 'Tooth type not coded' -1 'Not applicable'
1 'sound' 2 'unerupted' 3 'extracted (ortho)'  4 'extracted (caries)'
  5 'extracted (trauma)' 6 'enamel caries' 7 'filled and decayed' 8 'decayed - pulpal involvement'
  9 'visual/cavitated caries'   10 'filling needs replacement, no decay' 11 'sound filling - no decay'
 12 'obviously sealed surface' 13 'traumatised surface'  14 'crown or advanced restoration' .

fre tcur7 to tcll7 .
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*----------.
*2013 disaggregated (restorations trump enamel caries).

*101 'sound' 102 'unerupted' 103 'extracted (ortho)'  104 'extracted (caries)' 105 'extracted (trauma)'
 106 'enamel caries (non cavitated)' 107 'enamel caries (cavitated)'
 108 'caries into dentine (visual)' 109 'caries into dentine (cavitated)' 110 'caries, pulpal involvement'
 111 'filled with recurrent decay (no visual cavitation)' 112 'filled with recurrent decay (visual cavitation)'
 113 'filling needs replacement, no decay'  114 'sound filling - no decay'
 115 'obviously sealed surface' 116 'traumatised surface'  117 'crown or advanced restoration' .


*----------.
***code individual teeth .

*----------.
*Lower right.
FRE lr7d lr7o lr7m lr7b lr7l.


***tclr7d .
compute tclr7d=999 .
*all surfaces sound .
if (lr7d=1 & lr7o=1 & lr7m=1 & lr7b=1 & lr7l=1) tclr7d = 101 .
*missing teeth .
if lr7d = 14 tclr7d = 102 .
if lr7d = 15 tclr7d = 103 .
if lr7d = 16 tclr7d = 104 .
if lr7d = 17 tclr7d = 105 .
*sealed surface, otherwise sound .
if any(11, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 116 .
if any(13, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 117 .
*enamel caries .
if any(2, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 106 .
if any(3, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 107 .
*sound fillings, then broken fillings .
if any(9, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 114 .
if any(10, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 113 .
*caries into dentine.
if any(4, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 108 .
if any(5, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 109 .
*pulpal involvement .
if any(6, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 110 .
*filled, recurrent .
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if any(7, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 111 .
if any(8, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7d = 112 .
*missing .
if tclr7d = 999 tclr7d = -9 .
var lab tclr7d 'LR7 - disaggregated summary (2013) ' .


***tclr6d .
compute tclr6d=999 .
*all surfaces sound .
if (lr6d=1 & lr6o=1 & lr6m=1 & lr6b=1 & lr6l=1) tclr6d = 101 .
*missing teeth .
if lr6d = 14 tclr6d = 102 .
if lr6d = 15 tclr6d = 103 .
if lr6d = 16 tclr6d = 104 .
if lr6d = 17 tclr6d = 105 .
*sealed surface, otherwise sound .
if any(11, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 116 .
if any(13, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 117 .
*enamel caries .
if any(2, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 106 .
if any(3, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 107 .
*sound fillings, then broken fillings .
if any(9, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 114 .
if any(10, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 113 .
*caries into dentine.
if any(4, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 108 .
if any(5, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 109 .
*pulpal involvement .
if any(6, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 110 .
*filled, recurrent .
if any(7, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 111 .
if any(8, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6d = 112 .
*missing .
if tclr6d = 999 tclr6d = -9 .
var lab tclr6d 'LR6 - disaggregated summary (2013) ' .


***tclr5d permanent ..
compute tclr5d=999 .
*all surfaces sound .
if (lr5d=1 & lr5o=1 & lr5m=1 & lr5b=1 & lr5l=1) tclr5d = 101 .
*missing teeth .
if lr5d = 14 tclr5d = 102 .
if lr5d = 15 tclr5d = 103 .
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if lr5d = 16 tclr5d = 104 .
if lr5d = 17 tclr5d = 105 .
*sealed surface, otherwise sound .
if any(11, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 116 .
if any(13, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 117 .
*enamel caries .
if any(2, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 106 .
if any(3, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 107 .
*sound fillings, then broken fillings .
if any(9, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 114 .
if any(10, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 113 .
*caries into dentine.
if any(4, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 108 .
if any(5, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 109 .
*pulpal involvement .
if any(6, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 110 .
*filled, recurrent .
if any(7, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 111 .
if any(8, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5d = 112 .
*missing .
if lre5 = 2 tclr5d = -1 .
if lre5 = -9 tclr5d = -8 .
if tclr5d = 999 tclr5d = -9 .
var lab tclr5d 'LR5 permanent - disaggregated summary (2013) ' .


***tclred lr5 - decid .
compute tclred=999 .
*all surfaces sound .
if (lr5d=1 & lr5o=1 & lr5m=1 & lr5b=1 & lr5l=1) tclred = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 116 .
if any(13, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 117 .
*enamel caries .
if any(2, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 106 .
if any(3, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 107 .
*sound fillings, then broken fillings .
if any(9, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 114 .
if any(10, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 113 .
*caries into dentine.
if any(4, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 108 .
if any(5, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 109 .
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*pulpal involvement .
if any(6, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 110 .
*filled, recurrent .
if any(7, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 111 .
if any(8, lr5d, lr5o, lr5m, lr5b, lr5l) tclred = 112 .
*missing .
if lre5 = 1 tclred = -1 .
if lre5 = -9 tclred = -8 .
if tclred = 999 tclred = -9 .
var lab tclred 'LR5 deciduous - disaggregated summary (2013) ' .


***tclr4d permanent .
compute tclr4d=999 .
*all surfaces sound .
if (lr4d=1 & lr4o=1 & lr4m=1 & lr4b=1 & lr4l=1) tclr4d = 101 .
*missing teeth .
if lr4d = 14 tclr4d = 102 .
if lr4d = 15 tclr4d = 103 .
if lr4d = 16 tclr4d = 104 .
if lr4d = 17 tclr4d = 105 .
*sealed surface, otherwise sound .
if any(11, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 116 .
if any(13, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 117 .
*enamel caries .
if any(2, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 106 .
if any(3, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 107 .
*sound fillings, then broken fillings .
if any(9, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 114 .
if any(10, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 113 .
*caries into dentine.
if any(4, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 108 .
if any(5, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 109 .
*pulpal involvement .
if any(6, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 110 .
*filled, recurrent .
if any(7, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 111 .
if any(8, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4d = 112 .
*missing .
if lrd4 = 2 tclr4d = -1 .
if lrd4 = -9 tclr4d = -8 .
if tclr4d = 999 tclr4d = -9 .
var lab tclr4d 'LR4 permanent - disaggregated summary (2013) ' .
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***tclrdd - lr4 decid.
compute tclrdd=999 .
*all surfaces sound .
if (lr4d=1 & lr4o=1 & lr4m=1 & lr4b=1 & lr4l=1) tclrdd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 116 .
if any(13, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 117 .
*enamel caries .
if any(2, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 106 .
if any(3, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 107 .
*sound fillings, then broken fillings .
if any(9, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 114 .
if any(10, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 113 .
*caries into dentine.
if any(4, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 108 .
if any(5, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 109 .
*pulpal involvement .
if any(6, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 110 .
*filled, recurrent .
if any(7, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 111 .
if any(8, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdd = 112 .
*missing .
if lrd4 = 1 tclrdd = -1 .
if lrd4 = -9 tclrdd = -8 .
if tclrdd = 999 tclrdd = -9 .
var lab tclrdd 'LR4 deciduous - disaggregated summary (2013) ' .


***tclr3d - permanent .
compute tclr3d=999 .
*all surfaces sound .
if (lr3d=1 & lr3m=1 & lr3b=1 & lr3l=1) tclr3d = 101 .
*missing teeth .
if lr3d = 14 tclr3d = 102 .
if lr3d = 15 tclr3d = 103 .
if lr3d = 16 tclr3d = 104 .
if lr3d = 17 tclr3d = 105 .
*sealed surface, otherwise sound .
if any(11, lr3d, lr3m, lr3b, lr3l) tclr3d = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr3d, lr3m, lr3b, lr3l) tclr3d = 116 .
if any(13, lr3d, lr3m, lr3b, lr3l) tclr3d = 117 .
*enamel caries .
if any(2, lr3d, lr3m, lr3b, lr3l) tclr3d = 106 .
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if any(3, lr3d, lr3m, lr3b, lr3l) tclr3d = 107 .
*sound fillings, then broken fillings .
if any(9, lr3d, lr3m, lr3b, lr3l) tclr3d = 114 .
if any(10, lr3d, lr3m, lr3b, lr3l) tclr3d = 113 .
*caries into dentine.
if any(4, lr3d, lr3m, lr3b, lr3l) tclr3d = 108 .
if any(5, lr3d, lr3m, lr3b, lr3l) tclr3d = 109 .
*pulpal involvement .
if any(6, lr3d, lr3m, lr3b, lr3l) tclr3d = 110 .
*filled, recurrent .
if any(7, lr3d, lr3m, lr3b, lr3l) tclr3d = 111 .
if any(8, lr3d, lr3m, lr3b, lr3l) tclr3d = 112 .
*missing .
if lrc3 = 2 tclr3d = -1 .
if lrc3 = -9 tclr3d = -8 .
if tclr3d = 999 tclr3d = -9 .
var lab tclr3d 'LR3 permanent - disaggregated summary (2013) ' .


***tclrcd - lr3 deciduous .
compute tclrcd=999 .
*all surfaces sound .
if (lr3d=1 & lr3m=1 & lr3b=1 & lr3l=1) tclrcd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, lr3d, lr3m, lr3b, lr3l) tclrcd = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr3d, lr3m, lr3b, lr3l) tclrcd = 116 .
if any(13, lr3d, lr3m, lr3b, lr3l) tclrcd = 117 .
*enamel caries .
if any(2, lr3d, lr3m, lr3b, lr3l) tclrcd = 106 .
if any(3, lr3d, lr3m, lr3b, lr3l) tclrcd = 107 .
*sound fillings, then broken fillings .
if any(9, lr3d, lr3m, lr3b, lr3l) tclrcd = 114 .
if any(10, lr3d, lr3m, lr3b, lr3l) tclrcd = 113 .
*caries into dentine.
if any(4, lr3d, lr3m, lr3b, lr3l) tclrcd = 108 .
if any(5, lr3d, lr3m, lr3b, lr3l) tclrcd = 109 .
*pulpal involvement .
if any(6, lr3d, lr3m, lr3b, lr3l) tclrcd = 110 .
*filled, recurrent .
if any(7, lr3d, lr3m, lr3b, lr3l) tclrcd = 111 .
if any(8, lr3d, lr3m, lr3b, lr3l) tclrcd = 112 .
*missing .
if lrc3 = 1 tclrcd = -1 .
if lrc3 = -9 tclrcd = -8 .
if tclrcd = 999 tclrcd = -9 .
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var lab tclrcd 'LR3 deciduous - disaggregated summary (2013) ' .


***tclr2d - permanent .
compute tclr2d=999 .
*all surfaces sound .
if (lr2d=1 & lr2m=1 & lr2b=1 & lr2l=1) tclr2d = 101 .
*missing teeth .
if lr2d = 14 tclr2d = 102 .
if lr2d = 15 tclr2d = 103 .
if lr2d = 16 tclr2d = 104 .
if lr2d = 17 tclr2d = 105 .
*sealed surface, otherwise sound .
if any(11, lr2d, lr2m, lr2b, lr2l) tclr2d = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr2d, lr2m, lr2b, lr2l) tclr2d = 116 .
if any(13, lr2d, lr2m, lr2b, lr2l) tclr2d = 117 .
*enamel caries .
if any(2, lr2d, lr2m, lr2b, lr2l) tclr2d = 106 .
if any(3, lr2d, lr2m, lr2b, lr2l) tclr2d = 107 .
*sound fillings, then broken fillings .
if any(9, lr2d, lr2m, lr2b, lr2l) tclr2d = 114 .
if any(10, lr2d, lr2m, lr2b, lr2l) tclr2d = 113 .
*caries into dentine.
if any(4, lr2d, lr2m, lr2b, lr2l) tclr2d = 108 .
if any(5, lr2d, lr2m, lr2b, lr2l) tclr2d = 109 .
*pulpal involvement .
if any(6, lr2d, lr2m, lr2b, lr2l) tclr2d = 110 .
*filled, recurrent .
if any(7, lr2d, lr2m, lr2b, lr2l) tclr2d = 111 .
if any(8, lr2d, lr2m, lr2b, lr2l) tclr2d = 112 .
*missing .
if lrb2 = 2 tclr2d = -1 .
if lrb2 = -9 tclr2d = -8 .
if tclr2d = 999 tclr2d = -9 .
var lab tclr2d 'LR2 permanent - disaggregated summary (2013) ' .



***tclrbd -  lr2 deciduous .
compute tclrbd=999 .
*all surfaces sound .
if (lr2d=1 & lr2m=1 & lr2b=1 & lr2l=1) tclrbd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, lr2d, lr2m, lr2b, lr2l) tclrbd = 115 .
*trauma, trumped by advanced restoration .
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if any(12, lr2d, lr2m, lr2b, lr2l) tclrbd = 116 .
if any(13, lr2d, lr2m, lr2b, lr2l) tclrbd = 117 .
*enamel caries .
if any(2, lr2d, lr2m, lr2b, lr2l) tclrbd = 106 .
if any(3, lr2d, lr2m, lr2b, lr2l) tclrbd = 107 .
*sound fillings, then broken fillings .
if any(9, lr2d, lr2m, lr2b, lr2l) tclrbd = 114 .
if any(10, lr2d, lr2m, lr2b, lr2l) tclrbd = 113 .
*caries into dentine.
if any(4, lr2d, lr2m, lr2b, lr2l) tclrbd = 108 .
if any(5, lr2d, lr2m, lr2b, lr2l) tclrbd = 109 .
*pulpal involvement .
if any(6, lr2d, lr2m, lr2b, lr2l) tclrbd = 110 .
*filled, recurrent .
if any(7, lr2d, lr2m, lr2b, lr2l) tclrbd = 111 .
if any(8, lr2d, lr2m, lr2b, lr2l) tclrbd = 112 .
*missing .
if lrb2 = 1 tclrbd = -1 .
if lrb2 = -9 tclrbd = -8 .
if tclrbd = 999 tclrbd = -9 .
var lab tclrbd 'LR2 deciduous - disaggregated summary (2013) ' .


***tclr1d - permanent .
compute tclr1d=999 .
*all surfaces sound .
if (lr1d=1 & lr1m=1 & lr1b=1 & lr1l=1) tclr1d = 101 .
*missing teeth .
if lr1d = 14 tclr1d = 102 .
if lr1d = 15 tclr1d = 103 .
if lr1d = 16 tclr1d = 104 .
if lr1d = 17 tclr1d = 105 .
*sealed surface, otherwise sound .
if any(11, lr1d, lr1m, lr1b, lr1l) tclr1d = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr1d, lr1m, lr1b, lr1l) tclr1d = 116 .
if any(13, lr1d, lr1m, lr1b, lr1l) tclr1d = 117 .
*enamel caries .
if any(2, lr1d, lr1m, lr1b, lr1l) tclr1d = 106 .
if any(3, lr1d, lr1m, lr1b, lr1l) tclr1d = 107 .
*sound fillings, then broken fillings .
if any(9, lr1d, lr1m, lr1b, lr1l) tclr1d = 114 .
if any(10, lr1d, lr1m, lr1b, lr1l) tclr1d = 113 .
*caries into dentine.
if any(4, lr1d, lr1m, lr1b, lr1l) tclr1d = 108 .
if any(5, lr1d, lr1m, lr1b, lr1l) tclr1d = 109 .
*pulpal involvement .
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```
if any(6, lr1d, lr1m, lr1b, lr1l) tclr1d = 110 .
*filled, recurrent .
if any(7, lr1d, lr1m, lr1b, lr1l) tclr1d = 111 .
if any(8, lr1d, lr1m, lr1b, lr1l) tclr1d = 112 .
*missing .
if lra1 = 2 tclr1d = -1 .
if lra1 = -9 tclr1d = -8 .
if tclr1d = 999 tclr1d = -9 .
var lab tclr1d 'LR1 permanent - disaggregated summary (2013) ' .


***tclrad - lr1 deciduous .
compute tclrad=999 .
*all surfaces sound .
if (lr1d=1 & lr1m=1 & lr1b=1 & lr1l=1) tclrad = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, lr1d, lr1m, lr1b, lr1l) tclrad = 115 .
*trauma, trumped by advanced restoration .
if any(12, lr1d, lr1m, lr1b, lr1l) tclrad = 116 .
if any(13, lr1d, lr1m, lr1b, lr1l) tclrad = 117 .
*enamel caries .
if any(2, lr1d, lr1m, lr1b, lr1l) tclrad = 106 .
if any(3, lr1d, lr1m, lr1b, lr1l) tclrad = 107 .
*sound fillings, then broken fillings .
if any(9, lr1d, lr1m, lr1b, lr1l) tclrad = 114 .
if any(10, lr1d, lr1m, lr1b, lr1l) tclrad = 113 .
*caries into dentine.
if any(4, lr1d, lr1m, lr1b, lr1l) tclrad = 108 .
if any(5, lr1d, lr1m, lr1b, lr1l) tclrad = 109 .
*pulpal involvement .
if any(6, lr1d, lr1m, lr1b, lr1l) tclrad = 110 .
*filled, recurrent .
if any(7, lr1d, lr1m, lr1b, lr1l) tclrad = 111 .
if any(8, lr1d, lr1m, lr1b, lr1l) tclrad = 112 .
*missing .
if lra1 = 1 tclrad = -1 .
if lra1 = -9 tclrad = -8 .
if tclrad = 999 tclrad = -9 .
var lab tclrad 'LR1 deciduous - disaggregated summary (2013) ' .


*----------.
*Lower left.

***tcll1d - permanent .
compute tcll1d=999 .
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*all surfaces sound .
if (ll1d=1 & ll1m=1 & ll1b=1 & ll1l=1) tcll1d = 101 .
*missing teeth .
if ll1d = 14 tcll1d = 102 .
if ll1d = 15 tcll1d = 103 .
if ll1d = 16 tcll1d = 104 .
if ll1d = 17 tcll1d = 105 .
*sealed surface, otherwise sound .
if any(11, ll1d, ll1m, ll1b, ll1l) tcll1d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll1d, ll1m, ll1b, ll1l) tcll1d = 116 .
if any(13, ll1d, ll1m, ll1b, ll1l) tcll1d = 117 .
*enamel caries .
if any(2, ll1d, ll1m, ll1b, ll1l) tcll1d = 106 .
if any(3, ll1d, ll1m, ll1b, ll1l) tcll1d = 107 .
*sound fillings, then broken fillings .
if any(9, ll1d, ll1m, ll1b, ll1l) tcll1d = 114 .
if any(10, ll1d, ll1m, ll1b, ll1l) tcll1d = 113 .
*caries into dentine.
if any(4, ll1d, ll1m, ll1b, ll1l) tcll1d = 108 .
if any(5, ll1d, ll1m, ll1b, ll1l) tcll1d = 109 .
*pulpal involvement .
if any(6, ll1d, ll1m, ll1b, ll1l) tcll1d = 110 .
*filled, recurrent .
if any(7, ll1d, ll1m, ll1b, ll1l) tcll1d = 111 .
if any(8, ll1d, ll1m, ll1b, ll1l) tcll1d = 112 .
*missing .
if lla1 = 2 tcll1d = -1 .
if lla1 = -9 tcll1d = -8 .
if tcll1d = 999 tcll1d = -9 .
var lab tcll1d 'LL1 permanent - disaggregated summary (2013) ' .


***tcllad - ll1 deciduous .
compute tcllad=999 .
*all surfaces sound .
if (ll1d=1 & ll1m=1 & ll1b=1 & ll1l=1) tcllad = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ll1d, ll1m, ll1b, ll1l) tcllad = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll1d, ll1m, ll1b, ll1l) tcllad = 116 .
if any(13, ll1d, ll1m, ll1b, ll1l) tcllad = 117 .
*enamel caries .
if any(2, ll1d, ll1m, ll1b, ll1l) tcllad = 106 .
if any(3, ll1d, ll1m, ll1b, ll1l) tcllad = 107 .
*sound fillings, then broken fillings .
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```
if any(9, ll1d, ll1m, ll1b, ll1l) tcllad = 114 .
if any(10, ll1d, ll1m, ll1b, ll1l) tcllad = 113 .
*caries into dentine.
if any(4, ll1d, ll1m, ll1b, ll1l) tcllad = 108 .
if any(5, ll1d, ll1m, ll1b, ll1l) tcllad = 109 .
*pulpal involvement .
if any(6, ll1d, ll1m, ll1b, ll1l) tcllad = 110 .
*filled, recurrent .
if any(7, ll1d, ll1m, ll1b, ll1l) tcllad = 111 .
if any(8, ll1d, ll1m, ll1b, ll1l) tcllad = 112 .
*missing .
if lla1 = 1 tcllad = -1 .
if lla1 = -9 tcllad = -8 .
if tcllad = 999 tcllad = -9 .
var lab tcllad 'LL1 deciduous - disaggregated summary (2013) ' .


***tcll2d - permanent .
compute tcll2d=999 .
*all surfaces sound .
if (ll2d=1 & ll2m=1 & ll2b=1 & ll2l=1) tcll2d = 101 .
*missing teeth .
if ll2d = 14 tcll2d = 102 .
if ll2d = 15 tcll2d = 103 .
if ll2d = 16 tcll2d = 104 .
if ll2d = 17 tcll2d = 105 .
*sealed surface, otherwise sound .
if any(11, ll2d, ll2m, ll2b, ll2l) tcll2d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll2d, ll2m, ll2b, ll2l) tcll2d = 116 .
if any(13, ll2d, ll2m, ll2b, ll2l) tcll2d = 117 .
*enamel caries .
if any(2, ll2d, ll2m, ll2b, ll2l) tcll2d = 106 .
if any(3, ll2d, ll2m, ll2b, ll2l) tcll2d = 107 .
*sound fillings, then broken fillings .
if any(9, ll2d, ll2m, ll2b, ll2l) tcll2d = 114 .
if any(10, ll2d, ll2m, ll2b, ll2l) tcll2d = 113 .
*caries into dentine.
if any(4, ll2d, ll2m, ll2b, ll2l) tcll2d = 108 .
if any(5, ll2d, ll2m, ll2b, ll2l) tcll2d = 109 .
*pulpal involvement .
if any(6, ll2d, ll2m, ll2b, ll2l) tcll2d = 110 .
*filled, recurrent .
if any(7, ll2d, ll2m, ll2b, ll2l) tcll2d = 111 .
if any(8, ll2d, ll2m, ll2b, ll2l) tcll2d = 112 .
*missing .
if llb2 = 2 tcll2d = -1 .
```

```
if llb2 = -9 tcll2d = -8 .
if tcll2d = 999 tcll2d = -9 .
var lab tcll2d 'LL2 permanent - disaggregated summary (2013) ' .


***tcllbd -  ll2 deciduous .
compute tcllbd=999 .
*all surfaces sound .
if (ll2d=1 & ll2m=1 & ll2b=1 & ll2l=1) tcllbd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ll2d, ll2m, ll2b, ll2l) tcllbd = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll2d, ll2m, ll2b, ll2l) tcllbd = 116 .
if any(13, ll2d, ll2m, ll2b, ll2l) tcllbd = 117 .
*enamel caries .
if any(2, ll2d, ll2m, ll2b, ll2l) tcllbd = 106 .
if any(3, ll2d, ll2m, ll2b, ll2l) tcllbd = 107 .
*sound fillings, then broken fillings .
if any(9, ll2d, ll2m, ll2b, ll2l) tcllbd = 114 .
if any(10, ll2d, ll2m, ll2b, ll2l) tcllbd = 113 .
*caries into dentine.
if any(4, ll2d, ll2m, ll2b, ll2l) tcllbd = 108 .
if any(5, ll2d, ll2m, ll2b, ll2l) tcllbd = 109 .
*pulpal involvement .
if any(6, ll2d, ll2m, ll2b, ll2l) tcllbd = 110 .
*filled, recurrent .
if any(7, ll2d, ll2m, ll2b, ll2l) tcllbd = 111 .
if any(8, ll2d, ll2m, ll2b, ll2l) tcllbd = 112 .
*missing .
if llb2 = 1 tcllbd = -1 .
if llb2 = -9 tcllbd = -8 .
if tcllbd = 999 tcllbd = -9 .
var lab tcllbd 'LL2 deciduous - disaggregated summary (2013) ' .


***tcll3d - permanent .
compute tcll3d=999 .
*all surfaces sound .
if (ll3d=1 & ll3m=1 & ll3b=1 & ll3l=1) tcll3d = 101 .
*missing teeth .
if ll3d = 14 tcll3d = 102 .
if ll3d = 15 tcll3d = 103 .
if ll3d = 16 tcll3d = 104 .
if ll3d = 17 tcll3d = 105 .
*sealed surface, otherwise sound .
if any(11, ll3d, ll3m, ll3b, ll3l) tcll3d = 115 .
```

```
*trauma, trumped by advanced restoration .
if any(12, ll3d, ll3m, ll3b, ll3l) tcll3d = 116 .
if any(13, ll3d, ll3m, ll3b, ll3l) tcll3d = 117 .
*enamel caries .
if any(2, ll3d, ll3m, ll3b, ll3l) tcll3d = 106 .
if any(3, ll3d, ll3m, ll3b, ll3l) tcll3d = 107 .
*sound fillings, then broken fillings .
if any(9, ll3d, ll3m, ll3b, ll3l) tcll3d = 114 .
if any(10, ll3d, ll3m, ll3b, ll3l) tcll3d = 113 .
*caries into dentine.
if any(4, ll3d, ll3m, ll3b, ll3l) tcll3d = 108 .
if any(5, ll3d, ll3m, ll3b, ll3l) tcll3d = 109 .
*pulpal involvement .
if any(6, ll3d, ll3m, ll3b, ll3l) tcll3d = 110 .
*filled, recurrent .
if any(7, ll3d, ll3m, ll3b, ll3l) tcll3d = 111 .
if any(8, ll3d, ll3m, ll3b, ll3l) tcll3d = 112 .
*missing .
if llc3 = 2 tcll3d = -1 .
if llc3 = -9 tcll3d = -8 .
if tcll3d = 999 tcll3d = -9 .
var lab tcll3d 'LL3 permanent - disaggregated summary (2013) ' .


***tcllcd - ll3 deciduous .
compute tcllcd=999 .
*all surfaces sound .
if (ll3d=1 & ll3m=1 & ll3b=1 & ll3l=1) tcllcd = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ll3d, ll3m, ll3b, ll3l) tcllcd = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll3d, ll3m, ll3b, ll3l) tcllcd = 116 .
if any(13, ll3d, ll3m, ll3b, ll3l) tcllcd = 117 .
*enamel caries .
if any(2, ll3d, ll3m, ll3b, ll3l) tcllcd = 106 .
if any(3, ll3d, ll3m, ll3b, ll3l) tcllcd = 107 .
*sound fillings, then broken fillings .
if any(9, ll3d, ll3m, ll3b, ll3l) tcllcd = 114 .
if any(10, ll3d, ll3m, ll3b, ll3l) tcllcd = 113 .
*caries into dentine.
if any(4, ll3d, ll3m, ll3b, ll3l) tcllcd = 108 .
if any(5, ll3d, ll3m, ll3b, ll3l) tcllcd = 109 .
*pulpal involvement .
if any(6, ll3d, ll3m, ll3b, ll3l) tcllcd = 110 .
*filled, recurrent .
if any(7, ll3d, ll3m, ll3b, ll3l) tcllcd = 111 .
```

```
if any(8, ll3d, ll3m, ll3b, ll3l) tcllcd = 112 .
*missing .
if llc3 = 1 tcllcd = -1 .
if llc3 = -9 tcllcd = -8 .
if tcllcd = 999 tcllcd = -9 .
var lab tcllcd 'LL3 deciduous - disaggregated summary (2013) ' .


***tcll4d permanent .
compute tcll4d=999 .
*all surfaces sound .
if (ll4d=1 & ll4o=1 & ll4m=1 & ll4b=1 & ll4l=1) tcll4d = 101 .
*missing teeth .
if ll4d = 14 tcll4d = 102 .
if ll4d = 15 tcll4d = 103 .
if ll4d = 16 tcll4d = 104 .
if ll4d = 17 tcll4d = 105 .
*sealed surface, otherwise sound .
if any(11, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 116 .
if any(13, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 117 .
*enamel caries .
if any(2, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 106 .
if any(3, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 107 .
*sound fillings, then broken fillings .
if any(9, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 114 .
if any(10, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 113 .
*caries into dentine.
if any(4, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 108 .
if any(5, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 109 .
*pulpal involvement .
if any(6, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 110 .
*filled, recurrent .
if any(7, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 111 .
if any(8, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4d = 112 .
*missing .
if lld4 = 2 tcll4d = -1 .
if lld4 = -9 tcll4d = -8 .
if tcll4d = 999 tcll4d = -9 .
var lab tcll4d 'LL4 permanent - disaggregated summary (2013) ' .


***tcllda - ll4 decid.
compute tcllda=999 .
*all surfaces sound .
if (ll4d=1 & ll4o=1 & ll4m=1 & ll4b=1 & ll4l=1) tcllda = 101 .
```

```
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 116 .
if any(13, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 117 .
*enamel caries .
if any(2, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 106 .
if any(3, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 107 .
*sound fillings, then broken fillings .
if any(9, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 114 .
if any(10, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 113 .
*caries into dentine.
if any(4, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 108 .
if any(5, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 109 .
*pulpal involvement .
if any(6, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 110 .
*filled, recurrent .
if any(7, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 111 .
if any(8, ll4d, ll4o, ll4m, ll4b, ll4l) tclldd = 112 .
*missing .
if lld4 = 1 tclldd = -1 .
if lld4 = -9 tclldd = -8 .
if tclldd = 999 tclldd = -9 .
var lab tclldd 'LL4 deciduous - disaggregated summary (2013) ' .


***tcll5d permanent ..
compute tcll5d=999 .
*all surfaces sound .
if (ll5d=1 & ll5o=1 & ll5m=1 & ll5b=1 & ll5l=1) tcll5d = 101 .
*missing teeth .
if ll5d = 14 tcll5d = 102 .
if ll5d = 15 tcll5d = 103 .
if ll5d = 16 tcll5d = 104 .
if ll5d = 17 tcll5d = 105 .
*sealed surface, otherwise sound .
if any(11, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 116 .
if any(13, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 117 .
*enamel caries .
if any(2, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 106 .
if any(3, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 107 .
*sound fillings, then broken fillings .
if any(9, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 114 .
if any(10, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 113 .
```

```
*caries into dentine.
if any(4, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 108 .
if any(5, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 109 .
*pulpal involvement .
if any(6, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 110 .
*filled, recurrent .
if any(7, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 111 .
if any(8, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5d = 112 .
*missing .
if lle5 = 2 tcll5d = -1 .
if lle5 = -9 tcll5d = -8 .
if tcll5d = 999 tcll5d = -9 .
var lab tcll5d 'LL5 permanent - disaggregated summary (2013) ' .


***tclled ll5 - decid .
compute tclled=999 .
*all surfaces sound .
if (ll5d=1 & ll5o=1 & ll5m=1 & ll5b=1 & ll5l=1) tclled = 101 .
*missing teeth not coded for deciduous.
*sealed surface, otherwise sound .
if any(11, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 116 .
if any(13, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 117 .
*enamel caries .
if any(2, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 106 .
if any(3, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 107 .
*sound fillings, then broken fillings .
if any(9, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 114 .
if any(10, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 113 .
*caries into dentine.
if any(4, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 108 .
if any(5, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 109 .
*pulpal involvement .
if any(6, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 110 .
*filled, recurrent .
if any(7, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 111 .
if any(8, ll5d, ll5o, ll5m, ll5b, ll5l) tclled = 112 .
*missing .
if lle5 = 1 tclled = -1 .
if lle5 = -9 tclled = -8 .
if tclled = 999 tclled = -9 .
var lab tclled 'LL5 deciduous - disaggregated summary (2013) ' .


***tcll6d .
```

```
compute tcll6d=999 .
*all surfaces sound .
if (ll6d=1 & ll6o=1 & ll6m=1 & ll6b=1 & ll6l=1) tcll6d = 101 .
*missing teeth .
if ll6d = 14 tcll6d = 102 .
if ll6d = 15 tcll6d = 103 .
if ll6d = 16 tcll6d = 104 .
if ll6d = 17 tcll6d = 105 .
*sealed surface, otherwise sound .
if any(11, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 116 .
if any(13, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 117 .
*enamel caries .
if any(2, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 106 .
if any(3, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 107 .
*sound fillings, then broken fillings .
if any(9, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 114 .
if any(10, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 113 .
*caries into dentine.
if any(4, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 108 .
if any(5, ll6d, l16o, ll6m, ll6b, ll6l) tcll6d = 109 .
*pulpal involvement .
if any(6, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 110 .
*filled, recurrent .
if any(7, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 111 .
if any(8, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6d = 112 .
*missing .
if tcll6d = 999 tcll6d = -9 .
var lab tcll6d 'LL6 - disaggregated summary (2013) ' .


***tcll7d .
compute tcll7d=999 .
*all surfaces sound .
if (ll7d=1 & ll7o=1 & ll7m=1 & ll7b=1 & ll7l=1) tcll7d = 101 .
*missing teeth .
if ll7d = 14 tcll7d = 102 .
if ll7d = 15 tcll7d = 103 .
if ll7d = 16 tcll7d = 104 .
if ll7d = 17 tcll7d = 105 .
*sealed surface, otherwise sound .
if any(11, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 115 .
*trauma, trumped by advanced restoration .
if any(12, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 116 .
if any(13, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 117 .
*enamel caries .
```

```
if any(2, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 106 .
if any(3, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 107 .
*sound fillings, then broken fillings .
if any(9, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 114 .
if any(10, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 113 .
*caries into dentine.
if any(4, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 108 .
if any(5, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 109 .
*pulpal involvement .
if any(6, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 110 .
*filled, recurrent .
if any(7, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 111 .
if any(8, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7d = 112 .
*missing .
if tcll7d = 999 tcll7d = -9 .
var lab tcll7d 'LL7 - disaggregated summary (2013) ' .


*-----.
VALUE LABELS tclr7d to tcll7d
      -9 'Not coded' -8 'Tooth type not coded' -1 'Not applicable'
      101 'sound' 102 'unerupted' 103 'extracted (ortho)'  104 'extracted (caries)' 105 'extracted (trauma)'
      106 'enamel caries (non cavitated)' 107 'enamel caries (cavitated)'
      108 'caries into dentine (visual)' 109 'caries into dentine (cavitated)' 110 'caries, pulpal involvement'
      111 'filled with recurrent decay (no visual cavitation)' 112 'filled with recurrent decay (visual cavitation)'
      113 'filling needs replacement, no decay'  114 'sound filling - no decay'
      115 'obviously sealed surface' 116 'traumatised surface'  117 'crown or advanced restoration'.


*-----.
FRE tclr7d to tcll7d.

OUTPUT NEW.
FRE tclr7 to tcll7.

TEMPORARY.
RECODE tclr7d to tcll7d (101 thru hi = 1).
CROSSTABS tclr5d BY tclred
      /tclr4d BY tclrdd
      /tclr3d BY tclrcd
      /tclr2d BY tclrbd
      /tclr1d BY tclrad.

TEMPORARY.
RECODE tclr7d to tcll7d  (101 thru hi = 1).
CROSSTABS tcll5d BY tclled
      /tcll4d BY tclldd
```

```
    /tcll3d BY tcllcd
    /tcll2d BY tcllbd
    /tcll1d BY tcllad.

TEMPORARY.
SELECT IF (tclr5d GE 101 AND tclred NE -1) OR (tclr5d NE -1 AND tclred GE 101) OR
    (tclr4d GE 101 AND tclrdd NE -1) OR (tclr4d NE -1 AND tclrdd GE 101) OR
    (tclr3d GE 101 AND tclrcd NE -1) OR (tclr3d NE -1 AND tclrcd GE 101) OR
    (tclr2d GE 101 AND tclrbd NE -1) OR (tclr2d NE -1 AND tclrbd GE 101) OR
    (tclr1d GE 101 AND tclrad NE -1) OR (tclr1d NE -1 AND tclrad GE 101).
LIST serial tclr5d TO tclrad.
```

```
*File contains syntax for creating tooth level tooth condition summary variables consistent with the 1993 survey criteria.
*This allows the creation of summary variables associated with obvious decay experience excluding visual dentine caries.

*Note that these tooth summary DVs have not been retained on the archived data file but the syntax is provided because the
mouth level summary DVs are retained, and to allow analysts to recreate this tooth level data should they so wish.



*2003 tooth codes - create tooth vars with these to run the 1993 DVs on.
*0 'sound' 1 'unerrupted' 2 'extracted -caries' 3 'extracted - ortho'
4 'extracted - trauma' 5 'filled and decayed' 6 'tooth decayed-pulpal involvement' 7 ' tooth decayed'
8 'tooth filled - filling needs replacing' 9 'Tooth filled' 10 'sealed surface' 11'traumatised surface' 12 'crown advanced restoration'.

*2013 codes (revised so that restorations trump enamel caries).
*1 'sound' 2 'unerupted' 3 'extracted (ortho)'  4 'extracted (caries)' 5 'extracted (trauma)' 6 'enamel caries' 7 'filled and decayed'
  8 'decayed - pulpal involvement' 9 'visual/cavitated caries' 10 'filling needs replacement, no decay'
 11 'sound filling - no decay' 12 'obviously sealed surface' 13 'traumatised surface'  14 'crown or advanced restoration' .

MISSING VALUES ALL ().

*----------.
*Lower right.

*-----.
*tclr793.
FRE lr7d, lr7o, lr7m, lr7b, lr7l.
DISPLAY DICTIONARY /VARIABLES lr7d.

NUMERIC tclr793 (F2).
VARIABLE LABELS tclr793 "LR7 - summary (1993)".
VALUE LABELS tclr793
      0 "sound"
      1 "unerrupted"
      2 "extracted -caries"
      3 "extracted - ortho"
      4 "extracted - trauma"
      5 "filled and decayed"
      6 "tooth decayed-pulpal involvement"
      7 "tooth decayed"
      8 "tooth filled - filling needs replacing"
      9 "Tooth filled"
      10 "sealed surface"
      11 "traumatised surface"
      12 "crown advanced restoration".

COMPUTE tclr793 = 999.
IF (lr7d=1 & lr7o=1 & lr7m=1 & lr7b=1 & lr7l=1) OR (any(2, lr7d, lr7o, lr7m, lr7b, lr7l) OR any(3, lr7d, lr7o, lr7m, lr7b, lr7l) OR
```

```
      any(4, lr7d, lr7o, lr7m, lr7b, lr7l)) tclr793 = 0.
IF lr7d = 14 tclr793 = 1.
IF lr7d = 15 tclr793 = 3.
IF lr7d = 16 tclr793 = 2.
IF lr7d = 17 tclr793 = 4.
IF any(13, lr7d, lr7o, lr7m, lr7b, lr7l) tclr793 = 12.
IF any(12, lr7d, lr7o, lr7m, lr7b, lr7l) tclr793 = 11.
IF any(11, lr7d, lr7o, lr7m, lr7b, lr7l) tclr793 = 10.
IF (any(7, lr7d, lr7o, lr7m, lr7b, lr7l) OR any(9, lr7d, lr7o, lr7m, lr7b, lr7l)) tclr793 = 9.
IF any(10, lr7d, lr7o, lr7m, lr7b, lr7l) tclr793 = 8.
IF any(5, lr7d, lr7o, lr7m, lr7b, lr7l) tclr793 = 7.
IF any(6, lr7d, lr7o, lr7m, lr7b, lr7l) tclr793 = 6.
IF any(8, lr7d, lr7o, lr7m, lr7b, lr7l) tclr793 = 5.
IF tclr793 = 999 tclr793 = -9 .
FRE tclr793 tclr7.
*Differences as expected, including more coded as sound in 1993.

*-----.
*tclr693.
NUMERIC tclr693 (F2).
VARIABLE LABELS tclr693 "LR6 - summary (1993)".

COMPUTE tclr693 = 999.
IF (lr6d=1 & lr6o=1 & lr6m=1 & lr6b=1 & lr6l=1) OR (any(2, lr6d, lr6o, lr6m, lr6b, lr6l) OR any(3, lr6d, lr6o, lr6m, lr6b, lr6l) OR
      any(4, lr6d, lr6o, lr6m, lr6b, lr6l)) tclr693 = 0.
IF lr6d = 14 tclr693 = 1.
IF lr6d = 15 tclr693 = 3.
IF lr6d = 16 tclr693 = 2.
IF lr6d = 17 tclr693 = 4.
IF any(13, lr6d, lr6o, lr6m, lr6b, lr6l) tclr693 = 12.
IF any(12, lr6d, lr6o, lr6m, lr6b, lr6l) tclr693 = 11.
IF any(11, lr6d, lr6o, lr6m, lr6b, lr6l) tclr693 = 10.
IF (any(7, lr6d, lr6o, lr6m, lr6b, lr6l) OR any(9, lr6d, lr6o, lr6m, lr6b, lr6l)) tclr693 = 9.
IF any(10, lr6d, lr6o, lr6m, lr6b, lr6l) tclr693 = 8.
IF any(5, lr6d, lr6o, lr6m, lr6b, lr6l) tclr693 = 7.
IF any(6, lr6d, lr6o, lr6m, lr6b, lr6l) tclr693 = 6.
IF any(8, lr6d, lr6o, lr6m, lr6b, lr6l) tclr693 = 5.
IF tclr693 = 999 tclr693 = -9 .

*-----.
*tclr593 - permanent.
NUMERIC tclr593 (F2).
VARIABLE LABELS tclr593 "LR5 permanent - summary (1993)".

COMPUTE tclr593 = 999.
IF (lr5d=1 & lr5o=1 & lr5m=1 & lr5b=1 & lr5l=1) OR (any(2, lr5d, lr5o, lr5m, lr5b, lr5l) OR any(3, lr5d, lr5o, lr5m, lr5b, lr5l) OR
      any(4, lr5d, lr5o, lr5m, lr5b, lr5l)) tclr593 = 0.
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IF lr5d = 14 tclr593 = 1.
IF lr5d = 15 tclr593 = 3.
IF lr5d = 16 tclr593 = 2.
IF lr5d = 17 tclr593 = 4.
IF any(13, lr5d, lr5o, lr5m, lr5b, lr5l) tclr593 = 12.
IF any(12, lr5d, lr5o, lr5m, lr5b, lr5l) tclr593 = 11.
IF any(11, lr5d, lr5o, lr5m, lr5b, lr5l) tclr593 = 10.
IF (any(7, lr5d, lr5o, lr5m, lr5b, lr5l) OR any(9, lr5d, lr5o, lr5m, lr5b, lr5l)) tclr593 = 9.
IF any(10, lr5d, lr5o, lr5m, lr5b, lr5l) tclr593 = 8.
IF any(5, lr5d, lr5o, lr5m, lr5b, lr5l) tclr593 = 7.
IF any(6, lr5d, lr5o, lr5m, lr5b, lr5l) tclr593 = 6.
IF any(8, lr5d, lr5o, lr5m, lr5b, lr5l) tclr593 = 5.
IF lre5 = 2 tclr593 = -1 .
IF lre5 = -9 tclr593 = -8 .
IF tclr593 = 999 tclr593 = -9 .

*-----.
*tclr593 decid.
NUMERIC tclre93 (F2).
VARIABLE LABELS tclre93 "LR5 deciduous - summary (1993)".

COMPUTE tclre93 = 999.
IF (lr5d=1 & lr5o=1 & lr5m=1 & lr5b=1 & lr5l=1) OR (any(2, lr5d, lr5o, lr5m, lr5b, lr5l) OR any(3, lr5d, lr5o, lr5m, lr5b, lr5l) OR
      any(4, lr5d, lr5o, lr5m, lr5b, lr5l)) tclre93 = 0.
IF any(13, lr5d, lr5o, lr5m, lr5b, lr5l) tclre93 = 12.
IF any(12, lr5d, lr5o, lr5m, lr5b, lr5l) tclre93 = 11.
IF any(11, lr5d, lr5o, lr5m, lr5b, lr5l) tclre93 = 10.
IF (any(7, lr5d, lr5o, lr5m, lr5b, lr5l) OR any(9, lr5d, lr5o, lr5m, lr5b, lr5l)) tclre93 = 9.
IF any(10, lr5d, lr5o, lr5m, lr5b, lr5l) tclre93 = 8.
IF any(5, lr5d, lr5o, lr5m, lr5b, lr5l) tclre93 = 7.
IF any(6, lr5d, lr5o, lr5m, lr5b, lr5l) tclre93 = 6.
IF any(8, lr5d, lr5o, lr5m, lr5b, lr5l) tclre93 = 5.
IF lre5 = 1 tclre93 = -1 .
IF lre5 = -9 tclre93 = -8 .
IF tclre93 = 999 tclre93 = -9 .

*-----.
*tclr493 - permanent.
NUMERIC tclr493 (F2).
VARIABLE LABELS tclr493 "LR4 permanent - summary (1993)".

COMPUTE tclr493 = 999.
IF (lr4d=1 & lr4o=1 & lr4m=1 & lr4b=1 & lr4l=1) OR (any(2, lr4d, lr4o, lr4m, lr4b, lr4l) OR any(3, lr4d, lr4o, lr4m, lr4b, lr4l) OR
      any(4, lr4d, lr4o, lr4m, lr4b, lr4l)) tclr493 = 0.
IF lr4d = 14 tclr493 = 1.
IF lr4d = 15 tclr493 = 3.
IF lr4d = 16 tclr493 = 2.
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IF lr4d = 17 tclr493 = 4.
IF any(13, lr4d, lr4o, lr4m, lr4b, lr4l) tclr493 = 12.
IF any(12, lr4d, lr4o, lr4m, lr4b, lr4l) tclr493 = 11.
IF any(11, lr4d, lr4o, lr4m, lr4b, lr4l) tclr493 = 10.
IF (any(7, lr4d, lr4o, lr4m, lr4b, lr4l) OR any(9, lr4d, lr4o, lr4m, lr4b, lr4l)) tclr493 = 9.
IF any(10, lr4d, lr4o, lr4m, lr4b, lr4l) tclr493 = 8.
IF any(5, lr4d, lr4o, lr4m, lr4b, lr4l) tclr493 = 7.
IF any(6, lr4d, lr4o, lr4m, lr4b, lr4l) tclr493 = 6.
IF any(8, lr4d, lr4o, lr4m, lr4b, lr4l) tclr493 = 5.
IF lrd4 = 2 tclr493 = -1 .
IF lrd4 = -9 tclr493 = -8 .
IF tclr493 = 999 tclr493 = -9 .

*-----.
*tclr493 decid.
NUMERIC tclrd93 (F2).
VARIABLE LABELS tclrd93 "LR4 deciduous - summary (1993)".

COMPUTE tclrd93 = 999.
IF (lr4d=1 & lr4o=1 & lr4m=1 & lr4b=1 & lr4l=1) OR (any(2, lr4d, lr4o, lr4m, lr4b, lr4l) OR any(3, lr4d, lr4o, lr4m, lr4b, lr4l) OR
      any(4, lr4d, lr4o, lr4m, lr4b, lr4l)) tclrd93 = 0.
IF any(13, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd93 = 12.
IF any(12, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd93 = 11.
IF any(11, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd93 = 10.
IF (any(7, lr4d, lr4o, lr4m, lr4b, lr4l) OR any(9, lr4d, lr4o, lr4m, lr4b, lr4l)) tclrd93 = 9.
IF any(10, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd93 = 8.
IF any(5, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd93 = 7.
IF any(6, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd93 = 6.
IF any(8, lr4d, lr4o, lr4m, lr4b, lr4l) tclrd93 = 5.
IF lrd4 = 1 tclrd93 = -1 .
IF lrd4 = -9 tclrd93 = -8 .
IF tclrd93 = 999 tclrd93 = -9 .

*-----.
*tclr393 - permanent.
NUMERIC tclr393 (F2).
VARIABLE LABELS tclr393 "LR3 permanent - summary (1993)".

COMPUTE tclr393 = 999.
IF (lr3d=1 & lr3m=1 & lr3b=1 & lr3l=1) OR (any(2, lr3d, lr3m, lr3b, lr3l) OR any(3, lr3d, lr3m, lr3b, lr3l) OR
      any(4, lr3d, lr3m, lr3b, lr3l)) tclr393 = 0.
IF lr3d = 14 tclr393 = 1.
IF lr3d = 15 tclr393 = 3.
IF lr3d = 16 tclr393 = 2.
IF lr3d = 17 tclr393 = 4.
IF any(13, lr3d, lr3m, lr3b, lr3l) tclr393 = 12.
IF any(12, lr3d, lr3m, lr3b, lr3l) tclr393 = 11.
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IF any(11, lr3d, lr3m, lr3b, lr3l) tclr393 = 10.
IF (any(7, lr3d, lr3m, lr3b, lr3l) OR any(9, lr3d, lr3m, lr3b, lr3l)) tclr393 = 9.
IF any(10, lr3d, lr3m, lr3b, lr3l) tclr393 = 8.
IF any(5, lr3d, lr3m, lr3b, lr3l) tclr393 = 7.
IF any(6, lr3d, lr3m, lr3b, lr3l) tclr393 = 6.
IF any(8, lr3d, lr3m, lr3b, lr3l) tclr393 = 5.
IF lrc3 = 2 tclr393 = -1 .
IF lrc3 = -9 tclr393 = -8 .
IF tclr393 = 999 tclr393 = -9 .

*-----.
*tclr393 decid.
NUMERIC tclrc93 (F2).
VARIABLE LABELS tclrc93 "LR3 deciduous - summary (1993)".

COMPUTE tclrc93 = 999.
IF (lr3d=1 & lr3m=1 & lr3b=1 & lr3l=1) OR (any(2, lr3d, lr3m, lr3b, lr3l) OR any(3, lr3d, lr3m, lr3b, lr3l) OR
      any(4, lr3d, lr3m, lr3b, lr3l)) tclrc93 = 0.
IF any(13, lr3d, lr3m, lr3b, lr3l) tclrc93 = 12.
IF any(12, lr3d, lr3m, lr3b, lr3l) tclrc93 = 11.
IF any(11, lr3d, lr3m, lr3b, lr3l) tclrc93 = 10.
IF (any(7, lr3d, lr3m, lr3b, lr3l) OR any(9, lr3d, lr3m, lr3b, lr3l)) tclrc93 = 9.
IF any(10, lr3d, lr3m, lr3b, lr3l) tclrc93 = 8.
IF any(5, lr3d, lr3m, lr3b, lr3l) tclrc93 = 7.
IF any(6, lr3d, lr3m, lr3b, lr3l) tclrc93 = 6.
IF any(8, lr3d, lr3m, lr3b, lr3l) tclrc93 = 5.
IF lrc3 = 1 tclrc93 = -1 .
IF lrc3 = -9 tclrc93 = -8 .
IF tclrc93 = 999 tclrc93 = -9 .

*-----.
*tclr293 - permanent.
NUMERIC tclr293 (F2).
VARIABLE LABELS tclr293 "LR2 permanent - summary (1993)".

COMPUTE tclr293 = 999.
IF (lr2d=1 & lr2m=1 & lr2b=1 & lr2l=1) OR (any(2, lr2d, lr2m, lr2b, lr2l) OR any(3, lr2d, lr2m, lr2b, lr2l) OR
      any(4, lr2d, lr2m, lr2b, lr2l)) tclr293 = 0.
IF lr2d = 14 tclr293 = 1.
IF lr2d = 15 tclr293 = 3.
IF lr2d = 16 tclr293 = 2.
IF lr2d = 17 tclr293 = 4.
IF any(13, lr2d, lr2m, lr2b, lr2l) tclr293 = 12.
IF any(12, lr2d, lr2m, lr2b, lr2l) tclr293 = 11.
IF any(11, lr2d, lr2m, lr2b, lr2l) tclr293 = 10.
IF (any(7, lr2d, lr2m, lr2b, lr2l) OR any(9, lr2d, lr2m, lr2b, lr2l)) tclr293 = 9.
IF any(10, lr2d, lr2m, lr2b, lr2l) tclr293 = 8.
```

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IF any(5, lr2d, lr2m, lr2b, lr2l) tclr293 = 7.
IF any(6, lr2d, lr2m, lr2b, lr2l) tclr293 = 6.
IF any(8, lr2d, lr2m, lr2b, lr2l) tclr293 = 5.
IF lrb2 = 2 tclr293 = -1 .
IF lrb2 = -9 tclr293 = -8 .
IF tclr293 = 999 tclr293 = -9 .

*-----.
*tclr293 decid.
NUMERIC  tclrb93 (F2).
VARIABLE LABELS  tclrb93 "LR2 deciduous - summary (1993)".

COMPUTE  tclrb93 = 999.
IF (lr2d=1 & lr2m=1 & lr2b=1 & lr2l=1) OR (any(2, lr2d, lr2m, lr2b, lr2l) OR any(3, lr2d, lr2m, lr2b, lr2l) OR
      any(4, lr2d, lr2m, lr2b, lr2l))  tclrb93 = 0.
IF any(13, lr2d, lr2m, lr2b, lr2l)  tclrb93 = 12.
IF any(12, lr2d, lr2m, lr2b, lr2l)  tclrb93 = 11.
IF any(11, lr2d, lr2m, lr2b, lr2l)  tclrb93 = 10.
IF (any(7, lr2d, lr2m, lr2b, lr2l) OR any(9, lr2d, lr2m, lr2b, lr2l))  tclrb93 = 9.
IF any(10, lr2d, lr2m, lr2b, lr2l)  tclrb93 = 8.
IF any(5, lr2d, lr2m, lr2b, lr2l)  tclrb93 = 7.
IF any(6, lr2d, lr2m, lr2b, lr2l)  tclrb93 = 6.
IF any(8, lr2d, lr2m, lr2b, lr2l)  tclrb93 = 5.
IF lrb2 = 1 tclrb93 = -1 .
IF lrb2 = -9 tclrb93 = -8 .
IF  tclrb93 = 999  tclrb93 = -9 .

*-----.
*tclr193 - permanent.
NUMERIC tclr193 (F2).
VARIABLE LABELS tclr193 "LR1 permanent - summary (1993)".

COMPUTE tclr193 = 999.
IF (lr1d=1 & lr1m=1 & lr1b=1 & lr1l=1) OR (any(2, lr1d, lr1m, lr1b, lr1l) OR any(3, lr1d, lr1m, lr1b, lr1l) OR
      any(4, lr1d, lr1m, lr1b, lr1l)) tclr193 = 0.
IF lr1d = 14 tclr193 = 1.
IF lr1d = 15 tclr193 = 3.
IF lr1d = 16 tclr193 = 2.
IF lr1d = 17 tclr193 = 4.
IF any(13, lr1d, lr1m, lr1b, lr1l) tclr193 = 12.
IF any(12, lr1d, lr1m, lr1b, lr1l) tclr193 = 11.
IF any(11, lr1d, lr1m, lr1b, lr1l) tclr193 = 10.
IF (any(7, lr1d, lr1m, lr1b, lr1l) OR any(9, lr1d, lr1m, lr1b, lr1l)) tclr193 = 9.
IF any(10, lr1d, lr1m, lr1b, lr1l) tclr193 = 8.
IF any(5, lr1d, lr1m, lr1b, lr1l) tclr193 = 7.
IF any(6, lr1d, lr1m, lr1b, lr1l) tclr193 = 6.
IF any(8, lr1d, lr1m, lr1b, lr1l) tclr193 = 5.
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```
IF lra1 = 2 tclr193 = -1 .
IF lra1 = -9 tclr193 = -8 .
IF tclr193 = 999 tclr193 = -9 .

*-----.
*tclr193 decid.
NUMERIC  tclra93 (F2).
VARIABLE LABELS  tclra93 "LR1 deciduous - summary (1993)".

COMPUTE  tclra93 = 999.
IF (lr1d=1 & lr1m=1 & lr1b=1 & lr1l=1) OR (any(2, lr1d, lr1m, lr1b, lr1l) OR any(3, lr1d, lr1m, lr1b, lr1l) OR
      any(4, lr1d, lr1m, lr1b, lr1l))  tclra93 = 0.
IF any(13, lr1d, lr1m, lr1b, lr1l)  tclra93 = 12.
IF any(12, lr1d, lr1m, lr1b, lr1l)  tclra93 = 11.
IF any(11, lr1d, lr1m, lr1b, lr1l)  tclra93 = 10.
IF (any(7, lr1d, lr1m, lr1b, lr1l) OR any(9, lr1d, lr1m, lr1b, lr1l))  tclra93 = 9.
IF any(10, lr1d, lr1m, lr1b, lr1l)  tclra93 = 8.
IF any(5, lr1d, lr1m, lr1b, lr1l)  tclra93 = 7.
IF any(6, lr1d, lr1m, lr1b, lr1l)  tclra93 = 6.
IF any(8, lr1d, lr1m, lr1b, lr1l)  tclra93 = 5.
IF lra1 = 1 tclra93 = -1 .
IF lra1 = -9 tclra93 = -8 .
IF  tclra93 = 999  tclra93 = -9 .


*----------.
*Lower left.

*-----.
*tcll793.
NUMERIC tcll793 (F2).
VARIABLE LABELS tcll793 "LL7 - summary (1993)".

COMPUTE tcll793 = 999.
IF (ll7d=1 & ll7o=1 & ll7m=1 & ll7b=1 & ll7l=1) OR (any(2, ll7d, ll7o, ll7m, ll7b, ll7l) OR any(3, ll7d, ll7o, ll7m, ll7b, ll7l) OR
      any(4, ll7d, ll7o, ll7m, ll7b, ll7l)) tcll793 = 0.
IF ll7d = 14 tcll793 = 1.
IF ll7d = 15 tcll793 = 3.
IF ll7d = 16 tcll793 = 2.
IF ll7d = 17 tcll793 = 4.
IF any(13, ll7d, ll7o, ll7m, ll7b, ll7l) tcll793 = 12.
IF any(12, ll7d, ll7o, ll7m, ll7b, ll7l) tcll793 = 11.
IF any(11, ll7d, ll7o, ll7m, ll7b, ll7l) tcll793 = 10.
IF (any(7, ll7d, ll7o, ll7m, ll7b, ll7l) OR any(9, ll7d, ll7o, ll7m, ll7b, ll7l)) tcll793 = 9.
IF any(10, ll7d, ll7o, ll7m, ll7b, ll7l) tcll793 = 8.
IF any(5, ll7d, ll7o, ll7m, ll7b, ll7l) tcll793 = 7.
IF any(6, ll7d, ll7o, ll7m, ll7b, ll7l) tcll793 = 6.
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IF any(8, ll7d, ll7o, ll7m, ll7b, ll7l) tcll793 = 5.
IF tcll793 = 999 tcll793 = -9 .

*-----.
*tcll693.
NUMERIC tcll693 (F2).
VARIABLE LABELS tcll693 "LL6 - summary (1993)".

COMPUTE tcll693 = 999.
IF (ll6d=1 & ll6o=1 & ll6m=1 & ll6b=1 & ll6l=1) OR (any(2, ll6d, ll6o, ll6m, ll6b, ll6l) OR any(3, ll6d, ll6o, ll6m, ll6b, ll6l) OR
      any(4, ll6d, ll6o, ll6m, ll6b, ll6l)) tcll693 = 0.
IF ll6d = 14 tcll693 = 1.
IF ll6d = 15 tcll693 = 3.
IF ll6d = 16 tcll693 = 2.
IF ll6d = 17 tcll693 = 4.
IF any(13, ll6d, ll6o, ll6m, ll6b, ll6l) tcll693 = 12.
IF any(12, ll6d, ll6o, ll6m, ll6b, ll6l) tcll693 = 11.
IF any(11, ll6d, ll6o, ll6m, ll6b, ll6l) tcll693 = 10.
IF (any(7, ll6d, ll6o, ll6m, ll6b, ll6l) OR any(9, ll6d, ll6o, ll6m, ll6b, ll6l)) tcll693 = 9.
IF any(10, ll6d, ll6o, ll6m, ll6b, ll6l) tcll693 = 8.
IF any(5, ll6d, ll6o, ll6m, ll6b, ll6l) tcll693 = 7.
IF any(6, ll6d, ll6o, ll6m, ll6b, ll6l) tcll693 = 6.
IF any(8, ll6d, ll6o, ll6m, ll6b, ll6l) tcll693 = 5.
IF tcll693 = 999 tcll693 = -9 .

*-----.
*tcll593 - permanent.
NUMERIC tcll593 (F2).
VARIABLE LABELS tcll593 "LL5 permanent - summary (1993)".

COMPUTE tcll593 = 999.
IF (ll5d=1 & ll5o=1 & ll5m=1 & ll5b=1 & ll5l=1) OR (any(2, ll5d, ll5o, ll5m, ll5b, ll5l) OR any(3, ll5d, ll5o, ll5m, ll5b, ll5l) OR
      any(4, ll5d, ll5o, ll5m, ll5b, ll5l)) tcll593 = 0.
IF ll5d = 14 tcll593 = 1.
IF ll5d = 15 tcll593 = 3.
IF ll5d = 16 tcll593 = 2.
IF ll5d = 17 tcll593 = 4.
IF any(13, ll5d, ll5o, ll5m, ll5b, ll5l) tcll593 = 12.
IF any(12, ll5d, ll5o, ll5m, ll5b, ll5l) tcll593 = 11.
IF any(11, ll5d, ll5o, ll5m, ll5b, ll5l) tcll593 = 10.
IF (any(7, ll5d, ll5o, ll5m, ll5b, ll5l) OR any(9, ll5d, ll5o, ll5m, ll5b, ll5l)) tcll593 = 9.
IF any(10, ll5d, ll5o, ll5m, ll5b, ll5l) tcll593 = 8.
IF any(5, ll5d, ll5o, ll5m, ll5b, ll5l) tcll593 = 7.
IF any(6, ll5d, ll5o, ll5m, ll5b, ll5l) tcll593 = 6.
IF any(8, ll5d, ll5o, ll5m, ll5b, ll5l) tcll593 = 5.
IF lle5 = 2 tcll593 = -1 .
IF lle5 = -9 tcll593 = -8 .
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IF tcll593 = 999 tcll593 = -9 .

*-----.
*tcll593 decid.
NUMERIC tclle93 (F2).
VARIABLE LABELS tclle93 "LL5 deciduous - summary (1993)".

COMPUTE tclle93 = 999.
IF (ll5d=1 & ll5o=1 & ll5m=1 & ll5b=1 & ll5l=1) OR (any(2, ll5d, ll5o, ll5m, ll5b, ll5l) OR any(3, ll5d, ll5o, ll5m, ll5b, ll5l) OR
      any(4, ll5d, ll5o, ll5m, ll5b, ll5l)) tclle93 = 0.
IF any(13, ll5d, ll5o, ll5m, ll5b, ll5l) tclle93 = 12.
IF any(12, ll5d, ll5o, ll5m, ll5b, ll5l) tclle93 = 11.
IF any(11, ll5d, ll5o, ll5m, ll5b, ll5l) tclle93 = 10.
IF (any(7, ll5d, ll5o, ll5m, ll5b, ll5l) OR any(9, ll5d, ll5o, ll5m, ll5b, ll5l)) tclle93 = 9.
IF any(10, ll5d, ll5o, ll5m, ll5b, ll5l) tclle93 = 8.
IF any(5, ll5d, ll5o, ll5m, ll5b, ll5l) tclle93 = 7.
IF any(6, ll5d, ll5o, ll5m, ll5b, ll5l) tclle93 = 6.
IF any(8, ll5d, ll5o, ll5m, ll5b, ll5l) tclle93 = 5.
IF lle5 = 1 tclle93 = -1 .
IF lle5 = -9 tclle93 = -8 .
IF tclle93 = 999 tclle93 = -9 .

*-----.
*tcll493 - permanent.
NUMERIC tcll493 (F2).
VARIABLE LABELS tcll493 "LL4 permanent - summary (1993)".

COMPUTE tcll493 = 999.
IF (ll4d=1 & ll4o=1 & ll4m=1 & ll4b=1 & ll4l=1) OR (any(2, ll4d, ll4o, ll4m, ll4b, ll4l) OR any(3, ll4d, ll4o, ll4m, ll4b, ll4l) OR
      any(4, ll4d, ll4o, ll4m, ll4b, ll4l)) tcll493 = 0.
IF ll4d = 14 tcll493 = 1.
IF ll4d = 15 tcll493 = 3.
IF ll4d = 16 tcll493 = 2.
IF ll4d = 17 tcll493 = 4.
IF any(13, ll4d, ll4o, ll4m, ll4b, ll4l) tcll493 = 12.
IF any(12, ll4d, ll4o, ll4m, ll4b, ll4l) tcll493 = 11.
IF any(11, ll4d, ll4o, ll4m, ll4b, ll4l) tcll493 = 10.
IF (any(7, ll4d, ll4o, ll4m, ll4b, ll4l) OR any(9, ll4d, ll4o, ll4m, ll4b, ll4l)) tcll493 = 9.
IF any(10, ll4d, ll4o, ll4m, ll4b, ll4l) tcll493 = 8.
IF any(5, ll4d, ll4o, ll4m, ll4b, ll4l) tcll493 = 7.
IF any(6, ll4d, ll4o, ll4m, ll4b, ll4l) tcll493 = 6.
IF any(8, ll4d, ll4o, ll4m, ll4b, ll4l) tcll493 = 5.
IF lld4 = 2 tcll493 = -1 .
IF lld4 = -9 tcll493 = -8 .
IF tcll493 = 999 tcll493 = -9 .

*-----.
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*tcll493 decid.
NUMERIC tclld93 (F2).
VARIABLE LABELS tclld93 "LL4 deciduous - summary (1993)".

COMPUTE tclld93 = 999.
IF (ll4d=1 & ll4o=1 & ll4m=1 & ll4b=1 & ll4l=1) OR (any(2, ll4d, ll4o, ll4m, ll4b, ll4l) OR any(3, ll4d, ll4o, ll4m, ll4b, ll4l) OR
      any(4, ll4d, ll4o, ll4m, ll4b, ll4l)) tclld93 = 0.
IF any(13, ll4d, ll4o, ll4m, ll4b, ll4l) tclld93 = 12.
IF any(12, ll4d, ll4o, ll4m, ll4b, ll4l) tclld93 = 11.
IF any(11, ll4d, ll4o, ll4m, ll4b, ll4l) tclld93 = 10.
IF (any(7, ll4d, ll4o, ll4m, ll4b, ll4l) OR any(9, ll4d, ll4o, ll4m, ll4b, ll4l)) tclld93 = 9.
IF any(10, ll4d, ll4o, ll4m, ll4b, ll4l) tclld93 = 8.
IF any(5, ll4d, ll4o, ll4m, ll4b, ll4l) tclld93 = 7.
IF any(6, ll4d, ll4o, ll4m, ll4b, ll4l) tclld93 = 6.
IF any(8, ll4d, ll4o, ll4m, ll4b, ll4l) tclld93 = 5.
IF lld4 = 1 tclld93 = -1 .
IF lld4 = -9 tclld93 = -8 .
IF tclld93 = 999 tclld93 = -9 .

*-----.
*tcll393 - permanent.
NUMERIC tcll393 (F2).
VARIABLE LABELS tcll393 "LL3 permanent - summary (1993)".

COMPUTE tcll393 = 999.
IF (ll3d=1 & ll3m=1 & ll3b=1 & ll3l=1) OR (any(2, ll3d, ll3m, ll3b, ll3l) OR any(3, ll3d, ll3m, ll3b, ll3l) OR
      any(4, ll3d, ll3m, ll3b, ll3l)) tcll393 = 0.
IF ll3d = 14 tcll393 = 1.
IF ll3d = 15 tcll393 = 3.
IF ll3d = 16 tcll393 = 2.
IF ll3d = 17 tcll393 = 4.
IF any(13, ll3d, ll3m, ll3b, ll3l) tcll393 = 12.
IF any(12, ll3d, ll3m, ll3b, ll3l) tcll393 = 11.
IF any(11, ll3d, ll3m, ll3b, ll3l) tcll393 = 10.
IF (any(7, ll3d, ll3m, ll3b, ll3l) OR any(9, ll3d, ll3m, ll3b, ll3l)) tcll393 = 9.
IF any(10, ll3d, ll3m, ll3b, ll3l) tcll393 = 8.
IF any(5, ll3d, ll3m, ll3b, ll3l) tcll393 = 7.
IF any(6, ll3d, ll3m, ll3b, ll3l) tcll393 = 6.
IF any(8, ll3d, ll3m, ll3b, ll3l) tcll393 = 5.
IF llc3 = 2 tcll393 = -1 .
IF llc3 = -9 tcll393 = -8 .
IF tcll393 = 999 tcll393 = -9 .

*-----.
*tcll393 decid.
NUMERIC tcllc93 (F2).
VARIABLE LABELS tcllc93 "LL3 deciduous - summary (1993)".
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COMPUTE tcllc93 = 999.
IF (ll3d=1 & ll3m=1 & ll3b=1 & ll3l=1) OR (any(2, ll3d, ll3m, ll3b, ll3l) OR any(3, ll3d, ll3m, ll3b, ll3l) OR
      any(4, ll3d, ll3m, ll3b, ll3l)) tcllc93 = 0.
IF any(13, ll3d, ll3m, ll3b, ll3l) tcllc93 = 12.
IF any(12, ll3d, ll3m, ll3b, ll3l) tcllc93 = 11.
IF any(11, ll3d, ll3m, ll3b, ll3l) tcllc93 = 10.
IF (any(7, ll3d, ll3m, ll3b, ll3l) OR any(9, ll3d, ll3m, ll3b, ll3l)) tcllc93 = 9.
IF any(10, ll3d, ll3m, ll3b, ll3l) tcllc93 = 8.
IF any(5, ll3d, ll3m, ll3b, ll3l) tcllc93 = 7.
IF any(6, ll3d, ll3m, ll3b, ll3l) tcllc93 = 6.
IF any(8, ll3d, ll3m, ll3b, ll3l) tcllc93 = 5.
IF llc3 = 1 tcllc93 = -1 .
IF llc3 = -9 tcllc93 = -8 .
IF tcllc93 = 999 tcllc93 = -9 .

*-----.
*tcll293 - permanent.
NUMERIC tcll293 (F2).
VARIABLE LABELS tcll293 "LL2 permanent - summary (1993)".

COMPUTE tcll293 = 999.
IF (ll2d=1 & ll2m=1 & ll2b=1 & ll2l=1) OR (any(2, ll2d, ll2m, ll2b, ll2l) OR any(3, ll2d, ll2m, ll2b, ll2l) OR
      any(4, ll2d, ll2m, ll2b, ll2l)) tcll293 = 0.
IF ll2d = 14 tcll293 = 1.
IF ll2d = 15 tcll293 = 3.
IF ll2d = 16 tcll293 = 2.
IF ll2d = 17 tcll293 = 4.
IF any(13, ll2d, ll2m, ll2b, ll2l) tcll293 = 12.
IF any(12, ll2d, ll2m, ll2b, ll2l) tcll293 = 11.
IF any(11, ll2d, ll2m, ll2b, ll2l) tcll293 = 10.
IF (any(7, ll2d, ll2m, ll2b, ll2l) OR any(9, ll2d, ll2m, ll2b, ll2l)) tcll293 = 9.
IF any(10, ll2d, ll2m, ll2b, ll2l) tcll293 = 8.
IF any(5, ll2d, ll2m, ll2b, ll2l) tcll293 = 7.
IF any(6, ll2d, ll2m, ll2b, ll2l) tcll293 = 6.
IF any(8, ll2d, ll2m, ll2b, ll2l) tcll293 = 5.
IF llb2 = 2 tcll293 = -1 .
IF llb2 = -9 tcll293 = -8 .
IF tcll293 = 999 tcll293 = -9 .

*-----.
*tcll293 decid.
NUMERIC  tcllb93 (F2).
VARIABLE LABELS  tcllb93 "LL2 deciduous - summary (1993)".

COMPUTE  tcllb93 = 999.
IF (ll2d=1 & ll2m=1 & ll2b=1 & ll2l=1) OR (any(2, ll2d, ll2m, ll2b, ll2l) OR any(3, ll2d, ll2m, ll2b, ll2l) OR
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      any(4, ll2d, ll2m, ll2b, ll2l))  tcllb93 = 0.
IF any(13, ll2d, ll2m, ll2b, ll2l)  tcllb93 = 12.
IF any(12, ll2d, ll2m, ll2b, ll2l)  tcllb93 = 11.
IF any(11, ll2d, ll2m, ll2b, ll2l)  tcllb93 = 10.
IF (any(7, ll2d, ll2m, ll2b, ll2l) OR any(9, ll2d, ll2m, ll2b, ll2l))  tcllb93 = 9.
IF any(10, ll2d, ll2m, ll2b, ll2l)  tcllb93 = 8.
IF any(5, ll2d, ll2m, ll2b, ll2l)  tcllb93 = 7.
IF any(6, ll2d, ll2m, ll2b, ll2l)  tcllb93 = 6.
IF any(8, ll2d, ll2m, ll2b, ll2l)  tcllb93 = 5.
IF llb2 = 1 tcllb93 = -1 .
IF llb2 = -9 tcllb93 = -8 .
IF  tcllb93 = 999  tcllb93 = -9 .

*-----.
*tcll193 - permanent.
NUMERIC tcll193 (F2).
VARIABLE LABELS tcll193 "LL1 permanent - summary (1993)".

COMPUTE tcll193 = 999.
IF (ll1d=1 & ll1m=1 & ll1b=1 & ll1l=1) OR (any(2, ll1d, ll1m, ll1b, ll1l) OR any(3, ll1d, ll1m, ll1b, ll1l) OR
      any(4, ll1d, ll1m, ll1b, ll1l)) tcll193 = 0.
IF ll1d = 14 tcll193 = 1.
IF ll1d = 15 tcll193 = 3.
IF ll1d = 16 tcll193 = 2.
IF ll1d = 17 tcll193 = 4.
IF any(13, ll1d, ll1m, ll1b, ll1l) tcll193 = 12.
IF any(12, ll1d, ll1m, ll1b, ll1l) tcll193 = 11.
IF any(11, ll1d, ll1m, ll1b, ll1l) tcll193 = 10.
IF (any(7, ll1d, ll1m, ll1b, ll1l) OR any(9, ll1d, ll1m, ll1b, ll1l)) tcll193 = 9.
IF any(10, ll1d, ll1m, ll1b, ll1l) tcll193 = 8.
IF any(5, ll1d, ll1m, ll1b, ll1l) tcll193 = 7.
IF any(6, ll1d, ll1m, ll1b, ll1l) tcll193 = 6.
IF any(8, ll1d, ll1m, ll1b, ll1l) tcll193 = 5.
IF lla1 = 2 tcll193 = -1 .
IF lla1 = -9 tcll193 = -8 .
IF tcll193 = 999 tcll193 = -9 .

*-----.
*tcll193 decid.
NUMERIC  tclla93 (F2).
VARIABLE LABELS  tclla93 "LL1 deciduous - summary (1993)".

COMPUTE  tclla93 = 999.
IF (ll1d=1 & ll1m=1 & ll1b=1 & ll1l=1) OR (any(2, ll1d, ll1m, ll1b, ll1l) OR any(3, ll1d, ll1m, ll1b, ll1l) OR
      any(4, ll1d, ll1m, ll1b, ll1l))  tclla93 = 0.
IF any(13, ll1d, ll1m, ll1b, ll1l)  tclla93 = 12.
IF any(12, ll1d, ll1m, ll1b, ll1l)  tclla93 = 11.
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IF any(11, ll1d, ll1m, ll1b, ll1l)  tclla93 = 10.
IF (any(7, ll1d, ll1m, ll1b, ll1l) OR any(9, ll1d, ll1m, ll1b, ll1l))  tclla93 = 9.
IF any(10, ll1d, ll1m, ll1b, ll1l)  tclla93 = 8.
IF any(5, ll1d, ll1m, ll1b, ll1l)  tclla93 = 7.
IF any(6, ll1d, ll1m, ll1b, ll1l)  tclla93 = 6.
IF any(8, ll1d, ll1m, ll1b, ll1l)  tclla93 = 5.
IF lla1 = 1 tclla93 = -1 .
IF lla1 = -9 tclla93 = -8 .
IF  tclla93 = 999  tclla93 = -9 .

*-----.
VALUE LABELS tclr793 TO tclla93
      -9 "Not coded"
      -8 "Tooth type not coded"
      -1 "Not applicable"
      0 "sound"
      1 "unerrupted"
      2 "extracted -caries"
      3 "extracted - ortho"
      4 "extracted - trauma"
      5 "filled and decayed"
      6 "tooth decayed-pulpal involvement"
      7 "tooth decayed"
      8 "tooth filled - filling needs replacing"
      9 "Tooth filled"
      10 "sealed surface"
      11 "traumatised surface"
      12 "crown advanced restoration".

FRE tclr793 TO tclla93.
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***decayed, missing, filled by tooth - as 2003 criteria except that deciduous teeth are coded as not applicable .
*(NB - DMFT is not affected by disaggregated, re-prioritised tooth codes).

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recode tcur7 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ur7dmft .
recode tcur6 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ur6dmft .
recode tcur5 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ur5dmft .
recode tcur4 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ur4dmft .
recode tcur3 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ur3dmft .
recode tcur2 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ur2dmft .
recode tcur1 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ur1dmft .

recode tcul1 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ul1dmft .
recode tcul2 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ul2dmft .
recode tcul3 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ul3dmft .
recode tcul4 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ul4dmft .
recode tcul5 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ul5dmft .
recode tcul6 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ul6dmft .
recode tcul7 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ul7dmft .

recode tclr7 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into lr7dmft .
recode tclr6 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into lr6dmft .
recode tclr5 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into lr5dmft .
recode tclr4 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into lr4dmft .
recode tclr3 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into lr3dmft .
recode tclr2 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into lr2dmft .
recode tclr1 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into lr1dmft .

recode tcll1 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ll1dmft .
recode tcll2 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ll2dmft .
recode tcll3 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ll3dmft .
recode tcll4 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ll4dmft .
recode tcll5 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ll5dmft .
recode tcll6 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ll6dmft .
recode tcll7 (lo thru 0 = 9) (1 thru 3 = 0) (4 = 1) (5 thru 6 = 0) (7 thru 11 = 1) (12 thru 14 = 0) into ll7dmft .

var lab ur7dmft 'UR7 decayed missing or filled (2003 criteria)' .
var lab ur6dmft 'UR6 decayed missing or filled (2003 criteria)' .
var lab ur5dmft 'UR5 decayed missing or filled (2003 criteria)' .
var lab ur4dmft 'UR4 decayed missing or filled (2003 criteria)' .
var lab ur3dmft 'UR3 decayed missing or filled (2003 criteria)' .
var lab ur2dmft 'UR2 decayed missing or filled (2003 criteria)' .
var lab ur1dmft 'UR1 decayed missing or filled (2003 criteria)' .

var lab ul1dmft 'UL1 decayed missing or filled (2003 criteria)' .
var lab ul2dmft 'UL2 decayed missing or filled (2003 criteria)' .
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var lab ul3dmft 'UL3 decayed missing or filled (2003 criteria)' .
var lab ul4dmft 'UL4 decayed missing or filled (2003 criteria)' .
var lab ul5dmft 'UL5 decayed missing or filled (2003 criteria)' .
var lab ul6dmft 'UL6 decayed missing or filled (2003 criteria)' .
var lab ul7dmft 'UL7 decayed missing or filled (2003 criteria)' .

var lab lr7dmft 'LR7 decayed missing or filled (2003 criteria)' .
var lab lr6dmft 'LR6 decayed missing or filled (2003 criteria)' .
var lab lr5dmft 'LR5 decayed missing or filled (2003 criteria)' .
var lab lr4dmft 'LR4 decayed missing or filled (2003 criteria)' .
var lab lr3dmft 'LR3 decayed missing or filled (2003 criteria)' .
var lab lr2dmft 'LR2 decayed missing or filled (2003 criteria)' .
var lab lr1dmft 'LR1 decayed missing or filled (2003 criteria)' .

var lab ll1dmft 'LL1 decayed missing or filled (2003 criteria)' .
var lab ll2dmft 'LL2 decayed missing or filled (2003 criteria)' .
var lab ll3dmft 'LL3 decayed missing or filled (2003 criteria)' .
var lab ll4dmft 'LL4 decayed missing or filled (2003 criteria)' .
var lab ll5dmft 'LL5 decayed missing or filled (2003 criteria)' .
var lab ll6dmft 'LL6 decayed missing or filled (2003 criteria)' .
var lab ll7dmft 'LL7 decayed missing or filled (2003 criteria)' .

val lab ur7dmft to ll7dmft 0 'All surfaces sound' 1 'Decayed, missing, filled' 9 'Not applicable' .

*checks.
tab/tab tcur7 by ur7dmft .
tab/tab tcur1 by ur1dmft .
tab/tab tcul4 by ul4dmft .


missing values all() .

fre ur7dmft to ll7dmft  .
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*--------------------.
*DMFT indicator vars for primary teeth.
*(NB - DMFT is not affected by disaggregated, re-prioritised tooth codes).

recode tcure (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into uredmft .
recode tcurd (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into urddmft .
recode tcurc (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into urcdmft .
recode tcurb (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into urbdmft .
recode tcura (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into uradmft .

recode tcula (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into uladmft .
recode tculb (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into ulbdmft .
recode tculc (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into ulcdmft .
recode tculd (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into ulddmft .
recode tcule (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into uledmft .

recode tclre (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into lredmft .
recode tclrd (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into lrddmft .
recode tclrc (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into lrcdmft .
recode tclrb (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into lrbdmft .
recode tclra (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into lradmft .

recode tclla (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into lladmft .
recode tcllb (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into llbdmft .
recode tcllc (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into llcdmft .
recode tclld (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into llddmft .
recode tclle (lo thru 0 = 9) (1 thru 3, 5, 6, 12 thru 14 = 0) (4, 7 thru 11 = 1) into lledmft .

VARIABLE LABELS uredmft "UR5 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS urddmft "UR4 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS urcdmft "UR3 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS urbdmft "UR2 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS uradmft "UR1 primary - decayed, missing or filled (2003 criteria)" .

VARIABLE LABELS uladmft "UL1 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS ulbdmft "UL2 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS ulcdmft "UL3 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS ulddmft "UL4 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS uledmft "UL5 primary - decayed, missing or filled (2003 criteria)" .

VARIABLE LABELS lredmft "LR5 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS lrddmft "LR4 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS lrcdmft "LR3 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS lrbdmft "LR2 primary - decayed, missing or filled (2003 criteria)" .
```

```
VARIABLE LABELS lradmft "LR1 primary - decayed, missing or filled (2003 criteria)" .

VARIABLE LABELS lladmft "LL1 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS llbdmft "LL2 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS llcdmft "LL3 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS llddmft "LL4 primary - decayed, missing or filled (2003 criteria)" .
VARIABLE LABELS lledmft "LL5 primary - decayed, missing or filled (2003 criteria)" .

VALUE LABELS uredmft TO lledmft
     0 "All surfaces sound"
     1 "Decayed, missing, filled"
     9 "Not applicable" .

EXECUTE.

FRE uredmft TO lledmft.
CROSSTABS tcure BY uredmft.
```

```
missing values all() .

***count variables .
***Note these exclude teeth not coded because tooth type missing or for some other reason .

count numdecid = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule
  tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle (1) tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule
  tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle (6 thru 14).
var lab numdecid '(D) Number of deciduous teeth present' .

**********************************************************************************************************************.
count numperm = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(1)
   tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(6 thru 14).
var lab numperm '(D) Number of permanent teeth present' .

**********************************************************************************************************************.
*all present teeth .
compute numteeth = numperm + numdecid .
var lab numteeth '(D) Number of teeth present' .

**********************************************************************************************************************.
count nonerup = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(2) .
var lab nonerup '(D) Number of unerupted teeth' .

**********************************************************************************************************************.
***perm erupted, including extractions .
***note derivation - this is not the same as in 2003.
***2003 syntax: compute permerup = 28 - (numdecid + nonerup) .
count permerup = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(1)
   tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(3 thru 14).
var lab permerup '(D) Number of permanent teeth (2013 count)' .

**********************************************************************************************************************.
count misortho = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(3) .
```

```
var lab misortho '(D) Number of teeth extracted for orthodontic reasons' .

*****************************************************************************************************************************************.
count misdecay = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(4) .
var lab misdecay '(D) Number of teeth extracted due to decay' .

*****************************************************************************************************************************************.
*Retain? Same as permsnd1d in disaggregated file?.

*****************************************************************************************************************************************.
count permsound = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(1) .
var lab permsound '(D) Number of sound permanent teeth (2013 criteria)' .

*****************************************************************************************************************************************.

*****************************************************************************************************************************************.

*****************************************************************************************************************************************.
count permfill = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(10 thru 11)  .
var lab permfill '(D) Number of filled otherwise sound permanent teeth' .

*****************************************************************************************************************************************.
count permdcy1 = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(8 thru 9) .
var lab permdcy1 '(D) Number of untreated permanent teeth with decay (2003 criteria)' .

*****************************************************************************************************************************************.
count fldcypm = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(7) .
var lab fldcypm '(D) Number of filled permanent teeth with recurrent decay (2003 criteria)' .

*****************************************************************************************************************************************.

*****************************************************************************************************************************************.

*****************************************************************************************************************************************.

*****************************************************************************************************************************************.
*compute permdcy2 = permdcy1 + fildcypm .
```

```
*var lab permdcy2 '(D) Number of permanent teeth with active decay (2003 criteria)' .

*count of permanent teeth with active decay - does not include enamel caries .
COUNT numpdec=tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1
   tcul2 tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4
   tclr3 tclr2 tclr1 tcll1 tcll2 tcll3 tcll4 tcll5 tcll6 tcll7(7 thru 9).
VARIABLE LABELS  numpdec '(D) Number of permanent teeth with active decay (2003 criteria)'.
EXECUTE.

*****************************************************************************************************************************.
*active or treated decay .
compute permdcy3 = numpdec + permfill + misdecay .
var lab permdcy3 '(D) Number of permanent teeth with decay experience (2003 criteria)' .

*****************************************************************************************************************************.
count mol2dec = tcur7 tcul7 tclr7 tcll7(4)
  tcur7 tcul7 tclr7 tcll7(7 thru 11) .
var lab mol2dec '(D) Number of second molars with decay experience (2003 criteria)' .

*****************************************************************************************************************************.
count mol1dec = tcur6 tcul6 tclr6 tcll6 (4)
   tcur6 tcul6 tclr6 tcll6 (7 thru 11) .
var lab mol1dec '(D) Number of first molars with decay experience (2003 criteria)' .

*****************************************************************************************************************************.
count decsound = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule
  tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle (1) .
var lab decsound '(D) Number of sound deciduous teeth (2013 criteria)' .

*****************************************************************************************************************************.

*****************************************************************************************************************************.
count decfill = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule
  tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle (10 thru 11) .
var lab decfill '(D) Number of sound deciduous teeth with fillings' .

*****************************************************************************************************************************.
count decdcy1 = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule
  tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle (8 thru 9) .
var lab decdcy1 '(D) Number of untreated deciduous teeth with decay (2003 criteria)' .

*****************************************************************************************************************************.
count fldcydc = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule
  tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle (7) .
var lab fldcydc '(D) Number of filled deciduous teeth with recurrent decay (2003 criteria)' .

*****************************************************************************************************************************.
```

```
*count of deciduous teeth with active decay - does not include enamel caries .
COUNT numddec=tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule
  tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle (7 thru 9).
VARIABLE LABELS  numddec '(D) Number of deciduous teeth with active decay (2003)'.
EXECUTE.

*****************************************************************************************************************************.
*active or treated decay .
compute decdcy3 = numddec + decfill  .
var lab decdcy3 '(D) Number of deciduous teeth with decay experience (2003 criteria)' .

*****************************************************************************************************************************.
*count of all teeth with active decay - does not include enamel caries .
compute numtdec = numpdec + numddec .
var lab  numtdec '(D) Number of teeth with active decay (2003)'.
EXECUTE.

*****************************************************************************************************************************.

compute ddcyany1 = 0 .
if numddec >0 ddcyany1 = 1 .
var lab ddcyany1 '(D) Any active decay in deciduous teeth (2003 criteria)' .

compute ddcyany2 = 0 .
if decdcy3 >0 ddcyany2 = 1 .
var lab ddcyany2 '(D) Any decay experience in deciduous teeth (2003 criteria)' .

compute dfillany = 0 .
if decfill >0 dfillany = 1 .
if fldcydc >0 dfillany = 1 .
var lab dfillany '(D) Any filled deciduous teeth' .

val lab ddcyany1 to dfillany 0 'Not recorded' 1 'Recorded' .

*****************************************************************************************************************************.

compute pdcyany1 = 0 .
if numpdec >0 pdcyany1 = 1 .
var lab pdcyany1 '(D) Any active decay in permanent teeth (2003 criteria)' .

compute pdcyany2 = 0 .
if permdcy3 >0 pdcyany2 = 1 .
var lab pdcyany2 '(D) Any decay experience in permanent teeth (2003 criteria)' .


compute pfillany = 0 .
```

```
if permfill >0 pfillany = 1 .
var lab pfillany '(D) Any filled but otherwise sound permanent teeth' .

val lab pdcyany1 to pfillany 0 'Not recorded' 1 'Recorded' .

compute pfilling = 0 .
if permfill >0 pfilling = 1 .
if fldcypm >0 pfilling = 1 .
var lab pfilling '(D) Any filled permanent teeth including fillings with recurrent decay' .

val lab pdcyany1 to pfilling 0 'Not recorded' 1 'Recorded' .

*****************************************************************************************************************.

compute missdany = 0 .
if misdecay>0 missdany = 1 .
var lab missdany '(D) Any teeth missing due to decay' .
EXECUTE.

*Added to file.

***derived variables for report 2 .

*2.3 - Absence of any dentinal decay experience, by country and age.
*Derive any decay variable: from pdcyany2, ddcyany2.


NUMERIC adcyany2 (F2).
VARIABLE LABELS adcyany2 "(D) Any decay experience in teeth, permanent and deciduous (2003 criteria)".
VALUE LABELS adcyany2
      0 "Not recorded"
      1 "Recorded".

COMPUTE adcyany2 = -42.
IF (pdcyany2 = 0 AND ddcyany2 = 0) adcyany2 = 0.
IF any(1, pdcyany2, ddcyany2) adcyany2 = 1.
FRE adcyany2.



*****************************************************************************************************************.

***derived variables for report 4 .

FRE decdcy3 ddcyany2.
CROSSTABS decdcy3 BY ddcyany2.
```

```
NUMERIC decdcy3gpd (F2).
VARIABLE LABELS decdcy3gpd "(D) Extent of decay experience in deciduous teeth, 4 groups (2003 criteria)".
VALUE LABELS decdcy3gpd
     0 "None"
     1 "1 affected tooth"
     2 "2 affected teeth"
     3 "3 affected teeth"
     4 "4+ affected teeth".

COMPUTE decdcy3gpd = -42.
RECODE decdcy3 (0 = 0) (1 = 1) (2 = 2) (3 = 3) (4 thru hi = 4) INTO decdcy3gpd.
FRE decdcy3gpd.


*-----.
*4.2 - Distribution of decayed, missing filled permanent teeth among 15 year olds, by country.
*Derive extent of decay experience variable: from permdcy3.
FRE permdcy3 pdcyany2.
CROSSTABS permdcy3 BY pdcyany2.

NUMERIC permdcy3gpd (F2).
VARIABLE LABELS permdcy3gpd "(D) Extent of decay experience in premanent teeth, 4 groups (2003 criteria)".
VALUE LABELS permdcy3gpd
     0 "None"
     1 "1 affected tooth"
     2 "2 affected teeth"
     3 "3 affected teeth"
     4 "4+ affected teeth".

COMPUTE permdcy3gpd = -42.
RECODE permdcy3 (0 = 0) (1 = 1) (2 = 2) (3 = 3) (4 thru hi = 4) INTO permdcy3gpd.
FRE permdcy3gpd.


*-----.
*4.3 - Distribution of active decay among 5 year olds (deciduous teeth), by country.
*Derive extent of decay experience variable: from numddec.
FRE numddec ddcyany1.
CROSSTABS numddec BY ddcyany1.

NUMERIC numddecgpd (F2).
VARIABLE LABELS numddecgpd "(D) Extent of active decay in deciduous teeth, 4 groups (2003 criteria)".
VALUE LABELS numddecgpd
     0 "None"
     1 "1 affected tooth"
     2 "2 affected teeth"
     3 "3 affected teeth"
```

```
    4 "4+ affected teeth".

COMPUTE numddecgpd = -42.
RECODE numddec (0 = 0) (1 = 1) (2 = 2) (3 = 3) (4 thru hi = 4) INTO numddecgpd.
FRE numddecgpd.


*-----.
*4.4 - Distribution of any active decay among 15 year olds (permanent teeth), by country.
*Derive extent of decay experience variable: from numpdec.
FRE numpdec pdcyany1.
CROSSTABS numpdec BY pdcyany1.

NUMERIC numpdecgpd (F2).
VARIABLE LABELS numpdecgpd "(D) Extent of active decay in permanent teeth, 4 groups (2003 criteria)".
VALUE LABELS numpdecgpd
    0 "None"
    1 "1 affected tooth"
    2 "2 affected teeth"
    3 "3 affected teeth"
    4 "4+ affected teeth".

COMPUTE numpdecgpd = -42.
RECODE numpdec (0 = 0) (1 = 1) (2 = 2) (3 = 3) (4 thru hi = 4) INTO numpdecgpd.
FRE numpdecgpd.


*-----.
*4.5 - Distribution of recurrent decay among 5 year olds (deciduous teeth), by country.
*Derive extent of recurrent decay variables: from fldcydc.
FRE fldcydc.

NUMERIC fldcydcgpd (F2).
VARIABLE LABELS fldcydcgpd "(D) Extent of recurrent decay in deciduous teeth, 4 groups (2003 criteria)".
VALUE LABELS fldcydcgpd
    0 "None"
    1 "1 affected tooth"
    2 "2 affected teeth"
    3 "3 affected teeth"
    4 "4+ affected teeth".

COMPUTE fldcydcgpd = -42.
RECODE fldcydc (0 = 0) (1 = 1) (2 = 2) (3 = 3) (4 thru hi = 4) INTO fldcydcgpd.
FRE fldcydcgpd.

CROSSTABS fldcydc BY fldcydcgpd.
```

```
NUMERIC fldcydcany (F2).
VARIABLE LABELS fldcydcany "(D) Any recurrent decay in deciduous teeth (2003 criteria)".
VALUE LABELS fldcydcany
      0 "Not recorded"
      1 "Recorded".

RECODE fldcydcgpd (0 = 0) (1 thru hi = 1) INTO fldcydcany.
FRE fldcydcany.



*-----.
*4.6 - Distribution of recurrent decay among 15 year olds (permanent teeth), by country.
*Derive extent of recurrent decay variables: from fldcypm.
FRE fldcypm.

NUMERIC fldcypmgpd (F2).
VARIABLE LABELS fldcypmgpd "(D) Extent of recurrent decay in permanent teeth, 4 groups (2003 criteria)".
VALUE LABELS fldcypmgpd
      0 "None"
      1 "1 affected tooth"
      2 "2 affected teeth"
      3 "3 affected teeth"
      4 "4+ affected teeth".

COMPUTE fldcypmgpd = -42.
RECODE fldcypm (0 = 0) (1 = 1) (2 = 2) (3 = 3) (4 thru hi = 4) INTO fldcypmgpd.
FRE fldcypmgpd.

CROSSTABS fldcypm BY fldcypmgpd.

NUMERIC fldcypmany (F2).
VARIABLE LABELS fldcypmany "(D) Any recurrent decay in permanent teeth (2003 criteria)".
VALUE LABELS fldcypmany
      0 "Not recorded"
      1 "Recorded".

RECODE fldcypmgpd (0 = 0) (1 thru hi = 1) INTO fldcypmany.
FRE fldcypmany.



*-----.
*4.7 - Distribution of teeth missing due to caries among 5 year olds , by country.
*Not possible as dentists were instructed not to code deciduous teeth as missing due to caries but as unerupted.

*-----.
*4.8 - Distribution of teeth missing due to caries among 15 year olds (permanent teeth), by country.
*Derive teeth missing variable: from misdecay.
```

```
FRE misdecay missdany.
CROSSTABS misdecay BY missdany.

NUMERIC misdecaygpd (F2).
VARIABLE LABELS misdecaygpd "(D) Number of teeth missing due to caries in permanent teeth, 4 groups (2003 criteria)".
VALUE LABELS misdecaygpd
     0 "None"
     1 "1 affected tooth"
     2 "2 affected teeth"
     3 "3 affected teeth"
     4 "4+ affected teeth".

COMPUTE misdecaygpd = -42.
RECODE misdecay (0 = 0) (1 = 1) (2 = 2) (3 = 3) (4 thru hi = 4) INTO misdecaygpd.
FRE misdecaygpd.


*-----.
*4.9 - Distribution of unrestorable teeth among 5 year olds (deciduous teeth), by country.
*Derive unrestorable teeth variables: from count of deciduous teeth coded 8.

FRE tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclla tclra tcllb tcllc tclld tclle
     numdecid.

NUMERIC decunrnum (F2).
VARIABLE LABELS decunrnum "(D) Number of unrestorable deciduous teeth (2003 criteria)".
VALUE LABELS decunrnum
     -1 "Not applicable".

COMPUTE decunrnum = -42.
COUNT decunrnum = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclla tclra tcllb tcllc tclld tclle (8).
IF numdecid = 0 decunrnum = -1.
FRE decunrnum.
*total = 892.



NUMERIC decunrgpd (F2).
VARIABLE LABELS decunrgpd "(D) Number of unrestorable deciduous teeth, 4 groups (2003 criteria)".
VALUE LABELS decunrgpd
     -1 "Not applicable"
     0 "None"
     1 "1 affected tooth"
     2 "2 affected teeth"
     3 "3 affected teeth"
     4 "4+ affected teeth".
```

```
COMPUTE decunrgpd = -42.
COUNT decunrgpd = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclla tclra tcllb tcllc tclld tclle (8).
RECODE decunrgpd (4 thru hi = 4) (ELSE = COPY).
IF numdecid = 0 decunrgpd = -1.
FRE decunrgpd.


NUMERIC decunrany (F2).
VARIABLE LABELS decunrany "(D) Any unrestorable deciduous teeth (2003 criteria)".
VALUE LABELS decunrany
      -1 "Not applicable"
      0 "Not recorded"
      1 "Recorded".

COMPUTE decunrany = -42.
RECODE decunrgpd (1 thru hi = 1) (ELSE = COPY) INTO decunrany.
FRE decunrany.


*-----.
*4.10 - Distribution of unrestorable teeth among 15 year olds (permanent teeth), by country.
*Derive unrestorable teeth variables: from count of permanent teeth coded 8.

FRE tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tcll1 tclr1 tcll2 tcll3
      tcll4  tcll5 tcll6 tcll7
      numperm.

NUMERIC perunrnum (F2).
VARIABLE LABELS perunrnum "(D) Number of unrestorable permanent teeth (2003 criteria)".
VALUE LABELS perunrnum
      -1 "Not applicable".

COMPUTE perunrnum = -42.
COUNT perunrnum = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tcll1 tclr1
            tcll2 tcll3 tcll4  tcll5 tcll6 tcll7 (8).
IF numperm = 0 perunrnum = -1.
FRE perunrnum.
*total =  238.


NUMERIC perunrgpd (F2).
VARIABLE LABELS perunrgpd "(D) Number of unrestorable permanent teeth, 4 groups (2003 criteria)".
VALUE LABELS perunrgpd
      -1 "Not applicable"
      0 "None"
      1 "1 affected tooth"
      2 "2 affected teeth"
```

```
      3 "3 affected teeth"
      4 "4+ affected teeth".

COMPUTE perunrgpd = -42.
COUNT perunrgpd = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tcll1
      tclr1 tcll2 tcll3 tcll4  tcll5 tcll6 tcll7 (8).
RECODE perunrgpd (4 thru hi = 4) (ELSE = COPY).
IF numperm = 0 perunrgpd = -1.
FRE perunrgpd.


NUMERIC perunrany (F2).
VARIABLE LABELS perunrany "(D) Any unrestorable permanent teeth (2003 criteria)".
VALUE LABELS perunrany
      -1 "Not applicable"
      0 "Not recorded"
      1 "Recorded".

COMPUTE perunrany = -42.
RECODE perunrgpd (1 thru hi = 1) (ELSE = COPY) INTO perunrany.
FRE perunrany.


*-----.
*4.11 - PUFA symptoms, by country and age.
*Derive any PUFA symptoms variable: from pufa2 TO pufa5.
FRE pufa1 pufa2 pufa3 pufa4 pufa5.

NUMERIC pufaany (F2).
VARIABLE LABELS pufaany "(D) Any PUFA symptoms".
VALUE LABELS pufaany
      -9 "Not coded"
      0 "Not recorded"
      1 "Recorded".

COMPUTE pufaany = -42.
IF any(-9, pufa2, pufa3, pufa4, pufa5) pufaany = -9.
IF (pufa2 = 0 AND pufa3 = 0 AND pufa4 = 0 AND pufa5 = 0) pufaany = 0.
IF any(1, pufa2, pufa3, pufa4, pufa5) pufaany = 1.
IF any(2, pufa2, pufa3, pufa4, pufa5) pufaany = 1.
FRE pufaany.


*--------------------.
*C4 - Exam data.

*-----.
```

```
NUMERIC dec5plusd (F2).
VARIABLE LABELS dec5plusd "(D) 5+ primary teeth with obvious decay".
VALUE LABELS dec5plusd 0 "No" 1 "Yes".
RECODE decdcy3 (0 thru 4 = 0) (5 thru hi = 1) INTO dec5plusd.

NUMERIC dec3plusdd (F2).
VARIABLE LABELS dec3plusdd "(D) 3+ primary teeth with decay into dentine".
VALUE LABELS dec3plusdd 0 "No" 1 "Yes".
RECODE numddec (0 thru 2 = 0) (3 thru hi = 1) INTO dec3plusdd.



*-----.
NUMERIC per5plusd (F2).
VARIABLE LABELS per5plusd "(D) 5+ permanent teeth with obvious decay".
VALUE LABELS per5plusd 0 "No" 1 "Yes".
RECODE permdcy3 (0 thru 4 = 0) (5 thru hi = 1) INTO per5plusd.

NUMERIC per3plusdd (F2).
VARIABLE LABELS per3plusdd "(D) 3+ permanent teeth with decay into dentine".
VALUE LABELS per3plusdd 0 "No" 1 "Yes".
RECODE numpdec (0 thru 2 = 0) (3 thru hi = 1) INTO per3plusdd.
```

```
*----------.
***count variables .
***Note these exclude teeth not coded because tooth type missing or for some other reason .

*Only a few of these mouth-level DVs will be affected by the re-prioritisation in disaggreated tooth codes.

**********************************************************************************************************************.
*new .
count permenamd = tcur7d tcur6d tcur5d tcur4d tcur3d tcur2d tcur1d tcul1d
   tcul2d tcul3d tcul4d tcul5d tcul6d tcul7d tclr7d tclr6d tclr5d tclr4d
   tclr3d tclr2d tclr1d tcll1d tcll2d tcll3d tcll4d tcll5d tcll6d tcll7d (106, 107) .
var lab permenamd '(D using disaggregated tooth codes) Number of permanent teeth with enamel caries, otherwise sound' .
EXECUTE.


**********************************************************************************************************************.
*new .
count decenamd = tcured tcurdd tcurcd tcurbd tcurad tculad tculbd tculcd tculdd tculed
  tclred tclrdd tclrcd tclrbd tclrad tcllad tcllbd tcllcd tclldd tclled (106, 107) .
var lab decenamd '(D using disaggregated tooth codes) Number of deciduous teeth with enamel caries, otherwise sound' .
EXECUTE.


**********************************************************************************************************************.
*new.
compute denamanyd = 0 .
if decenamd > 0 denamanyd = 1 .
var lab denamanyd '(D using disaggregated tooth codes) Any deciduous teeth with enamel caries' .
val lab denamanyd 0 'Not recorded' 1 'Recorded' .
EXECUTE.

**********************************************************************************************************************.
compute penamanyd = 0 .
if permenamd > 0 penamanyd = 1 .
var lab penamanyd '(D using disaggregated tooth codes) Any permanent teeth with enamel caries' .
val lab penamanyd 0 'Not recorded' 1 'Recorded' .
EXECUTE.


*Added.

*-----.
*2.4 - Absence of decay experience (including enamel caries) in permanent teeth, by country and age.
*Derive decay experience (including enamel caries) variable: from pdcyany2, permenam.
*FRE pdcyany2 permenam.
```

```
*NUMERIC pedcyany2 (F2).
*VARIABLE LABELS pedcyany2 "(D) Any decay experience (including enamel caries) in permanent teeth (2003 criteria)".
*VALUE LABELS pedcyany2
      0 "Not recorded"
      1 "Recorded".

*COMPUTE pedcyany2 = -42.
*IF (pdcyany2 = 0 AND permenam = 0) pedcyany2 = 0.
*IF (pdcyany2 = 1 OR  permenam GE 1) pedcyany2 = 1.
*FRE pedcyany2.


*-----.
*2.5 - Absence of decay experience (including enamel caries) in deciduous teeth, by country and age.
*Derive decay experience (including enamel caries) variable: from decenam, ddcyany2.
*FRE decenam ddcyany2.

*NUMERIC dedcyany2 (F2).
*VARIABLE LABELS dedcyany2 "(D) Any decay experience (including enamel caries) in deciduous teeth (2003 criteria)".
*VALUE LABELS dedcyany2
      0 "Not recorded"
      1 "Recorded".

*COMPUTE dedcyany2 = -42.
*IF (ddcyany2 = 0 AND decenam = 0) dedcyany2 = 0.
*IF (ddcyany2 = 1 OR  decenam GE 1) dedcyany2 = 1.
*FRE dedcyany2.



*-----.
*2.6 - Absence of any decay experience (including enamel caries), by country and age.
*Derive any decay experience (including enamel caries) variable: from pedcyany2 and dedcyany2
      (from permenam & decenam, & pdcyany2 & ddcyany2 respectively).
*FRE pedcyany2 dedcyany2.

*NUMERIC aedcyany2 (F2).
*VARIABLE LABELS aedcyany2 "(D) Any decay experience (including enamel caries) in teeth, permanent and deciduous (2003 criteria)".
*VALUE LABELS aedcyany2
      0 "Not recorded"
      1 "Recorded".

*COMPUTE aedcyany2 = -42.
*IF (pedcyany2 = 0 AND dedcyany2 = 0) aedcyany2 = 0.
*IF (pedcyany2 = 1 OR  dedcyany2 = 1) aedcyany2 = 1.
*FRE aedcyany2.
```

```
******************************************************************************************************************************
************************* Clinical decay in primary teeth***********************************************
******************************************************************************************************************************.

******************************************************************************************************************************.
*count of primary teeth with clinical decay - including cavitated enamel caries and obvious decay as decay.

COUNT numddecac=tcured tcurdd tcurcd tcurbd tcurad tculad tculbd tculcd tculdd tculed
tclred tclrdd tclrcd tclrbd tclrad tcllad tcllbd tcllcd tclldd tclled (107 thru 112).
VARIABLE LABELS  numddecac "(D) Number of primary teeth with clinical decay (including cavitated enamel caries)".
EXECUTE.

*count of primary teeth with clinical decay - including cavitated and visual enamel caries as decay.

COUNT numddecav=tcured tcurdd tcurcd tcurbd tcurad tculad tculbd tculcd tculdd tculed
tclred tclrdd tclrcd tclrbd tclrad tcllad tcllbd tcllcd tclldd tclled (106 thru 112).
VARIABLE LABELS  numddecav "(D) Number of primary teeth with clinical decay (including cavitated and visual enamel caries)".
EXECUTE.


******************************************************************************************************************************.
*clinical decay experience.
compute decdcy3ac = numddecac + decfill  .
var lab decdcy3ac '(D) Number of primary teeth with clinical decay experience (including cavitated enamel caries)' .

compute decdcy3av = numddecav + decfill  .
var lab decdcy3av '(D) Number of primary teeth with clinical decay experience (including cavitated and visual enamel caries)' .
EXECUTE.

******************************************************************************************************************************.
compute ddcyany1ac = 0 .
if numddecac >0 ddcyany1ac = 1 .
var lab ddcyany1ac '(D) Any clinical decay in primary teeth (including cavitated enamel caries)' .

compute ddcyany1av = 0 .
if numddecav >0 ddcyany1av = 1 .
var lab ddcyany1av '(D) Any clinical decay in primary teeth (including cavitated and visual enamel caries)' .

compute ddcyany2ac = 0 .
if decdcy3ac >0 ddcyany2ac = 1 .
var lab ddcyany2ac '(D) Any clinical decay experience in primary teeth (including cavitated enamel caries)' .

compute ddcyany2av = 0 .
if decdcy3av >0 ddcyany2av = 1 .
```

```
var lab ddcyany2av '(D) Any clinical decay experience in primary teeth (including cavitated and visual enamel caries)' .
val lab ddcyany1ac to ddcyany2ac 0 'Not recorded' 1 'Recorded' .
EXECUTE.

*****************************************************************************************************************************
************************** Clinical decay experience in permanent teeth**********************************************
*****************************************************************************************************************************.

*count of permanent teeth with clinical decay - including cavitated enamel caries as decay.

COUNT numpdecac= tcur7d tcur6d tcur5d tcur4d tcur3d tcur2d tcur1d tcul1d tcul2d tcul3d tcul4d tcul5d tcul6d tcul7d
tclr7d tclr6d tclr5d tclr4d tclr3d tclr2d tclr1d tcll1d tcll2d tcll3d tcll4d tcll5d tcll6d tcll7d (107 thru 112).
VARIABLE LABELS  numpdecac '(D) Number of permanent teeth with clinical decay (including cavitated enamel caries)'.
EXECUTE.

*count of permanent teeth with clinical decay - including cavitated  and visual enamel caries as decay.
COUNT numpdecav=tcur7d tcur6d tcur5d tcur4d tcur3d tcur2d tcur1d tcul1d tcul2d tcul3d tcul4d tcul5d tcul6d tcul7d
tclr7d tclr6d tclr5d tclr4d tclr3d tclr2d tclr1d tcll1d tcll2d tcll3d tcll4d tcll5d tcll6d tcll7d (106 thru 112).
VARIABLE LABELS  numpdecav '(D) Number of permanent teeth with clinical decay (including cavitated and visual enamel caries)'.
EXECUTE.

*****************************************************************************************************************************.
*clinical decay experience includign cavitated but not visual enamel caries.
compute permdcy3ac = numpdecAC + permfill + misdecay .
var lab permdcy3ac '(D) Number of permanent teeth with clinical decay experience (including cavitated enamel caries)' .

*clinical decay experience including visual enamel caries and cavitated enamel caries.
compute permdcy3av = numpdecAV + permfill + misdecay .
var lab permdcy3av '(D) Number of permanent teeth with clinical decay experience (including cavitated and visual enamel caries)' .
EXECUTE.

****************************************************************************************************************************.
compute pdcyany1ac = 0 .
if numpdecAc >0 pdcyany1ac = 1 .
var lab pdcyany1ac '(D) Any clinical decay in permanent teeth (including cavitated enamel caries)' .

compute pdcyany1av = 0 .
if numpdecAv >0 pdcyany1av = 1 .
var lab pdcyany1av '(D) Any clinical decay in permanent teeth (including cavitated and visual enamel caries)' .

compute pdcyany2ac = 0 .
if permdcy3ac >0 pdcyany2ac = 1 .
var lab pdcyany2ac '(D) Any clinical decay experience in permanent teeth (including cavitated enamel caries)' .

compute pdcyany2av = 0 .
if permdcy3av >0 pdcyany2av = 1 .
var lab pdcyany2av '(D) Any clinical decay experience in permanent teeth (including cavitated and visual enamel caries)' .
```

```
val lab pdcyany1ac to pdcyany2av 0 'Not recorded' 1 'Recorded' .
EXECUTE.

*****************************************************************************************************************************************.
*count of all teeth with clinical decay - cavitated enamel caries but not visual enamel caries as decay.
compute numtdecac = numpdecAC + numddecAC .
var lab  numtdecac '(D) Number of teeth with clinical decay (including cavitated enamel caries)'.
EXECUTE.

*count of all teeth with clinical decay - cavitated enamel caries and visual enamel caries as decay.
compute numtdecav = numpdecAv + numddecAv .
var lab  numtdecav '(D) Number of teeth with clinical decay  (including cavitated and visual enamel caries)'.
EXECUTE.
```

```
*----------.
*1993 and 2013 tooth codes are not the same.

*1993.
*Value         Label
      .00     sound
      1.00    unerrupted
      2.00    extracted -caries
      3.00    extracted - ortho
      4.00    extracted - trauma
      5.00    filled and decayed
      6.00    tooth decayed-pulpal involvement
      7.00     tooth decayed
      8.00    tooth filled - filling needs replacing
      9.00    Tooth filled
      10.00    sealed surface
      11.00    traumatised surface
      12.00    crown advanced restoration.

*2013.
*Value         Label
      -9.00    Not coded
      -8.00    Tooth type not coded
      -3.00    Unproductive at exam
      -2.00    Not applicable ineligible dob
      -1.00    Not applicable
      1.00     sound
      2.00     unerupted
      3.00     extracted (ortho)
      4.00     extracted (caries)
      5.00     extracted (trauma)
      6.00     enamel caries
      7.00     filled and decayed
      8.00     decayed - pulpal involvement
      9.00     visual/cavitated caries
      10.00    filling needs replacement, no decay
      11.00    sound filling - no decay
      12.00    obviously sealed surface
      13.00    traumatised surface
      14.00    crown or advanced restoration.
*----------.

*-----.
*pfill93 - (D: 1993) filled (otherwise sound) permanent teeth - range of 0-28.
NUMERIC pfill93 (F2).
```

```
VARIABLE LABELS pfill93 "(D: 1993) filled (otherwise sound) permanent teeth - range of 0-28".
*1993 tooth codes used: 8 tooth filled - filling needs replacing, 9 Tooth filled;
*2013 codes: 10 filling needs replacement, no decay, 11 sound filling - no decay.

COUNT PFILL93 = tcur793 tcur693 tcur593 tcur493 tcur393 tcur293 tcur193 tcul193 tcul293 tcul393 tcul493 tcul593 tcul693 tcul793
      tclr793 tclr693 tclr593 tclr493 tclr393 tclr293 tclr193 tcll193 tcll293 tcll393 tcll493 tcll593 tcll693 tcll793 (8, 9).
FRE pfill93.

*-----.
*pdcy193 - (D: 1993) decayed permanent teeth not previously treated -range of 0-28.
NUMERIC pdcy193 (F2).
VARIABLE LABELS pdcy193 "(D: 1993) decayed permanent teeth not previously treated -range of 0-28".
*1993 tooth codes used: 6 tooth decayed-pulpal involvement, 7 tooth decayed;
*2013 codes: 8 decayed - pulpal involvement, 9 visual/cavitated caries.

COUNT PDCY193 =  tcur793 tcur693 tcur593 tcur493 tcur393 tcur293 tcur193 tcul193 tcul293 tcul393 tcul493 tcul593 tcul693 tcul793
      tclr793 tclr693 tclr593 tclr493 tclr393 tclr293 tclr193 tcll193 tcll293 tcll393 tcll493  tcll593 tcll693 tcll793 (6, 7).
FRE PDCY193.

*-----.
*fdcypm93 - (D: 1993) filled and decayed permanent teeth - range of 0-28.
NUMERIC fdcypm93 (F2).
VARIABLE LABELS fdcypm93 "(D: 1993) filled and decayed permanent teeth - range of 0-28".
*1993 tooth codes used: 5 filled and decayed;
*2013 codes: 7 filled and decayed.

COUNT fdcypm93 =  tcur793 tcur693 tcur593 tcur493 tcur393 tcur293 tcur193 tcul193 tcul293 tcul393 tcul493 tcul593 tcul693 tcul793
      tclr793 tclr693 tclr593 tclr493 tclr393 tclr293 tclr193 tcll193 tcll293 tcll393 tcll493  tcll593 tcll693 tcll793 (5).
FRE fdcypm93.

*-----.
*pseal93 - (D: 1993) number of permanent teeth with sealed surfaces - range of 0-28.
NUMERIC pseal93 (F2).
VARIABLE LABELS pseal93 "(D: 1993) number of permanent teeth with sealed surfaces - range of 0-28".
*1993 tooth codes used: 10 sealed surface;
*2013 codes: 12 obviously sealed surface.

COUNT pseal93 =  tcur793 tcur693 tcur593 tcur493 tcur393 tcur293 tcur193 tcul193 tcul293 tcul393 tcul493 tcul593 tcul693 tcul793
      tclr793 tclr693 tclr593 tclr493 tclr393 tclr293 tclr193 tcll193 tcll293 tcll393 tcll493  tcll593 tcll693 tcll793 (10).
FRE pseal93.

*-----.
*trapm93 - (D: 1993) number of permanent teeth with traumatised surfaces - range of 0-28.
NUMERIC trapm93 (F2).
VARIABLE LABELS trapm93 "(D: 1993) number of permanent teeth with traumatised surfaces - range of 0-28".
*1993 tooth codes used: 11 traumatised surface;
*2013 codes: 13 traumatised surface.
```

```
COUNT trapm93 =  tcur793 tcur693 tcur593 tcur493 tcur393 tcur293 tcur193 tcul193 tcul293 tcul393 tcul493 tcul593 tcul693 tcul793
      tclr793 tclr693 tclr593 tclr493 tclr393 tclr293 tclr193 tcll193 tcll293 tcll393 tcll493  tcll593 tcll693 tcll793 (11).
FRE trapm93.

*-----.
*pcrwn93 (D: 1993) number of crowns/ advanced restoration on permanent teeth - range of 0-28.
NUMERIC pcrwn93 (F2).
VARIABLE LABELS pcrwn93 "(D: 1993) number of crowns/ advanced restoration on permanent teeth - range of 0-28".
*1993 tooth codes used: 12 crown advanced restoration;
*2013 codes: 14 crown or advanced restoration.

COUNT pcrwn93 =  tcur793 tcur693 tcur593 tcur493 tcur393 tcur293 tcur193 tcul193 tcul293 tcul393 tcul493 tcul593 tcul693 tcul793
      tclr793 tclr693 tclr593 tclr493 tclr393 tclr293 tclr193 tcll193 tcll293 tcll393 tcll493  tcll593 tcll693 tcll793 (12).
FRE pcrwn93.

*-----.
*pdcy293 - (D: 1993) number of permanent teeth with active decay - range of 0-28.
NUMERIC pdcy293 (F2).
VARIABLE LABELS pdcy293 "(D: 1993) number of permanent teeth with active decay - range of 0-28".

COMPUTE PDCY293 = (PDCY193 + FDCYPM93).
FRE PDCY293.

*-----.
*MISDECAY93 - permanent teeth missing due to decay -range of 0-28.
NUMERIC MISDECAY93 (F2).
VARIABLE LABELS MISDECAY93 "(D: 1993) permanent teeth missing due to decay -range of 0-28".
*1993 = permanent teeth missing due to decay -range of 0-28
2013 = (D) Number of permanent teeth extracted due to decay.

COUNT MISDECAY93 =  tcur793 tcur693 tcur593 tcur493 tcur393 tcur293 tcur193 tcul193 tcul293 tcul393 tcul493 tcul593 tcul693 tcul793
      tclr793 tclr693 tclr593 tclr493 tclr393 tclr293 tclr193 tcll193 tcll293 tcll393 tcll493  tcll593 tcll693 tcll793 (2).
FRE MISDECAY93.

*-----.
*pdcy393 - (D: 1993) total decay experience - permanent dentition - range of 0-28.
NUMERIC pdcy393 (F2).
VARIABLE LABELS pdcy393 "(D: 1993) total decay experience - permanent dentition - range of 0-28".

COMPUTE PDCY393 = (PDCY293 + PFILL93 + MISDECAY93).
FRE pdcy393.

*-----.
*moldc293 - (D: 1993) decay experience in second molars.
NUMERIC moldc293 (F2).
VARIABLE LABELS moldc293 "(D: 1993) decay experience in second molars".
```

```
*1993 tooth codes used: (2) (5) (6) (7) (8) (9).
*2013 codes: 4 extracted (caries), 7 filled and decayed, 8 decayed - pulpal involvement, 9 visual/cavitated caries,
      10 filling needs replacement, no decay, 11      sound filling - no decay.

COUNT MOLDC293 = tcur793 tcul793 tclr793 tcll793 (2, 5, 6, 7, 8, 9).
FRE MOLDC293.

*-----.
*moldc193 - (D: 1993) decay experience in first molars.
NUMERIC moldc193 (F2).
VARIABLE LABELS moldc193 "(D: 1993) decay experience in first molars".
*1993 tooth codes used: (2) (5) (6) (7) (8) (9).
*2013 codes: 4 extracted (caries), 7 filled and decayed, 8 decayed - pulpal involvement, 9 visual/cavitated caries,
      10 filling needs replacement, no decay, 11      sound filling - no decay.

COUNT moldc193 = tcur693 tcul693 tclr693 tcll693 (2, 5, 6, 7, 8, 9).
FRE moldc193.

*-----.
*dfill93 - (D: 1993) number of filled (otherwise sound) deciduous teeth. Numeric value in the range of 0-20.
NUMERIC dfill93 (F2).
VARIABLE LABELS dfill93 "(D: 1993) number of filled (otherwise sound) deciduous teeth. Numeric value in the range of 0-20".
*1993 tooth codes used: 8 tooth filled - filling needs replacing, 9 Tooth filled;
*2013 codes: 10 filling needs replacement, no decay, 11 sound filling - no decay.

COUNT dfill93 = tcure93 tcurd93 tcurc93 tcurb93 tcura93 tcula93 tculb93 tculc93 tculd93 tcule93
      tclre93 tclrd93 tclrc93 tclrb93 tclra93 tclla93 tcllb93 tcllc93 tclld93 tclle93 (8, 9).
FRE dfill93.

*-----.
*ddcy193 - (D: 1993) number of decayed deciduous teeth not previously treated. Numeric value in the range of 0-20.
NUMERIC ddcy193 (F2).
VARIABLE LABELS ddcy193 "(D: 1993) number of decayed deciduous teeth not previously treated. Numeric value in the range of 0-20".
*1993 tooth codes used: 6 tooth decayed-pulpal involvement, 7 tooth decayed;
*2013 codes: 8 decayed - pulpal involvement, 9 visual/cavitated caries.

COUNT ddcy193 = tcure93 tcurd93 tcurc93 tcurb93 tcura93 tcula93 tculb93 tculc93 tculd93 tcule93 tclre93 tclrd93 tclrc93 tclrb93 tclra93
      tclla93 tcllb93 tcllc93 tclld93 tclle93 (6, 7).
FRE ddcy193.

*-----.
*fdcydc93 - (D: 1993) filled and decayed deciduous teeth -range of 0-20.
NUMERIC fdcydc93 (F2).
VARIABLE LABELS fdcydc93 "      (D: 1993) filled and decayed deciduous teeth -range of 0-20".
*1993 tooth codes used: 5 filled and decayed;
*2013 codes: 7 filled and decayed.
```

```
COUNT fdcydc93 =  tcure93 tcurd93 tcurc93 tcurb93 tcura93 tcula93 tculb93 tculc93 tculd93 tcule93 tclre93 tclrd93 tclrc93 tclrb93
      tclra93 tclla93 tcllb93 tcllc93 tclld93 tclle93 (5).
FRE fdcydc93.

*-----.
*ddcy293 - (D: 1993) number of deciduous teeth with active decay.
NUMERIC ddcy293 (F2).
VARIABLE LABELS ddcy293 "(D: 1993) number of deciduous teeth with active decay".
COMPUTE DDCY293 = (ddcy193 + fdcydc93).
FRE ddcy293.

*-----.
*ddcy393 - (D: 1993) number of deciduous teeth with any known decay experience. Numeric value in the range of 0-20.
NUMERIC ddcy393 (F2).
VARIABLE LABELS ddcy393 "(D: 1993) number of deciduous teeth with any known decay experience. Numeric value in the range of 0-20".

COMPUTE ddcy393 = (DDCY293 + DFILL93).
FRE ddcy393.

*-----.
*ddcany93.
NUMERIC ddcany93 (F2).
VARIABLE LABELS ddcany93 "(D: 1993) any non-reversible decay deciduous teeth".
VALUE LABELS ddcany93
      0 "No"
      1 "Yes".

RECODE ddcy293 (0 = 0) (1 thru hi = 1) INTO ddcany93.
FRE ddcany93.

*-----.
*ddcny293.
NUMERIC ddcny293 (F2).
VARIABLE LABELS ddcny293 "(D: 1993) any decay experience deciduous teeth".
VALUE LABELS ddcny293
      0 "No"
      1 "Yes".

RECODE ddcy393 (0 = 0) (1 thru hi = 1) INTO ddcny293.
FRE ddcny293.

*-----.
*dflany93.
NUMERIC dflany93 (F2).
VARIABLE LABELS dflany93 "(D: 1993) any filled due to decay deciduous teeth".
VALUE LABELS dflany93
      0 "No"
```

```
      1 "Yes".

RECODE dfill93 (0 = 0) (1 thru hi = 1) INTO dflany93.
FRE dflany93.

*-----.
*pdcyny93.
NUMERIC pdcyny93 (F2).
VARIABLE LABELS pdcyny93 "(D: 1993) any non-reversible decay permanent teeth".
VALUE LABELS pdcyny93
      0 "No"
      1 "Yes".

RECODE pdcy293 (0 = 0) (1 thru hi = 1) INTO pdcyny93.
FRE pdcyny93.

*-----.
NUMERIC pdcny293 (F2).
VARIABLE LABELS pdcny293 "(D: 1993) any decay experience permanent teeth".
VALUE LABELS pdcny293
      0 "No"
      1 "Yes".

RECODE pdcy393 (0 = 0) (1 thru hi = 1) INTO pdcny293.
FRE pdcny293.

*-----.
*pflany93.
NUMERIC pflany93 (F2).
VARIABLE LABELS pflany93 "(D: 1993) any filled due to decay permanent teeth".
VALUE LABELS pflany93
      0 "No"
      1 "Yes".

RECODE pfill93 (0 = 0) (1 thru hi = 1) INTO pflany93.
FRE pflany93.

*-----.
*pseals93.
NUMERIC pseals93 (F2).
VARIABLE LABELS pseals93 "(D: 1993) any permanent seals".
VALUE LABELS pseals93
      0 "No"
      1 "Yes".

RECODE pseal93 (0 = 0) (1 thru hi = 1) INTO pseals93.
FRE pseals93.
```

***new clinical variables, created by 'Fancy' Dan Philo .

*Deriving variables:
Numseald1 (D) Number of deciduous teeth with obviously sealed surfaces
Numsealp1 (D) Number of permanent teeth with obviously sealed surfaces
Numtraud1 (D) Number of deciduous teeth with traumatised surfaces
Numtraup1 (D) Number of permanent teeth with traumatised surfaces
Numrestd1 (D) Number of deciduous teeth with advanced restorations
Numrestp1 (D) Number of permanent teeth with advanced restorations.
*And for each of these a binary 'has' variable.

MISSING VALUES ALL ().

*---------------------.
*Sealed surfaces.
*----------.

*----------.
*Numseald1 (D) Number of deciduous teeth with obviously sealed surfaces.
FRE tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle.

*-----.
*Upper right.
IF any(11, ur5d, ur5o, ur5m, ur5b, ur5l) tcureseal = 1.
IF any(11, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdseal = 1.
IF any(11, ur3d, ur3m, ur3b, ur3l) tcurcseal = 1.
IF any(11, ur2d, ur2m, ur2b, ur2l) tcurbseal = 1.
IF any(11, ur1d, ur1m, ur1b, ur1l) tcuraseal = 1.

*-----.
*Upper left.
IF any(11, ul1d, ul1m, ul1b, ul1l) tculaseal = 1.
IF any(11, ul2d, ul2m, ul2b, ul2l) tculbseal = 1.
IF any(11, ul3d, ul3m, ul3b, ul3l) tculcseal = 1.
IF any(11, ul4d, ul4o, ul4m, ul4b, ul4l) tculdseal = 1.
IF any(11, ul5d, ul5o, ul5m, ul5b, ul5l) tculeseal = 1.
*-----.
*Lower right.
IF any(11, lr5d, lr5o, lr5m, lr5b, lr5l) tclreseal = 1.
IF any(11, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdseal = 1.
IF any(11, lr3d, lr3m, lr3b, lr3l) tclrcseal = 1.
IF any(11, lr2d, lr2m, lr2b, lr2l) tclrbseal = 1.
IF any(11, lr1d, lr1m, lr1b, lr1l) tclraseal = 1.

```
*-----.
*Lower left.
IF any(11, ll1d, ll1m, ll1b, ll1l) tcllaseal = 1.
IF any(11, ll2d, ll2m, ll2b, ll2l) tcllbseal = 1.
IF any(11, ll3d, ll3m, ll3b, ll3l) tcllcseal = 1.
IF any(11, ll4d, ll4o, ll4m, ll4b, ll4l) tclldseal = 1.
IF any(11, ll5d, ll5o, ll5m, ll5b, ll5l) tclleseal = 1.

*-----.
EXECUTE.

*-----.
*Set missing values and zeros for individual tooth vars.
DO REPEAT xtooth = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle
      /ysealtooth = tcureseal TO tclleseal.
      RECODE ysealtooth (sysmis = 0).
      IF range(xtooth, -9, -1) ysealtooth = xtooth.
END REPEAT.

FORMATS tcureseal TO tclleseal (F2).

VALUE LABELS tcureseal TO tclleseal
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable"
      0 "Obviously sealed surfaces not recorded"
      1 "Obviously sealed surfaces recorded".

FREQUENCIES tcureseal TO tclleseal.

*-----.
NUMERIC Numseald1 (F2).
VARIABLE LABELS Numseald1 "(D) Number of deciduous teeth with obviously sealed surfaces".
VALUE LABELS Numseald1
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable".

COMPUTE Numseald1 = -42.
COUNT Numseald1 = tcureseal TO tclleseal (1).
FREQUENCIES Numseald1.

NUMERIC Anyseald1 (F2).
VARIABLE LABELS Anyseald1 "(D) Any deciduous teeth with obviously sealed surfaces".
VALUE LABELS Anyseald1
      -9 "Refusal"
```

```
      -8 "Don't know"
      -1 "Not applicable"
      0 "Not recorded"
      1 "Recorded".

COMPUTE Anyseald1 = -42.
RECODE Numseald1 (0 = 0) (1 thru hi = 1) INTO Anyseald1.
FREQUENCIES Anyseald1.

CROSSTABS Numseald1 BY Anyseald1.



*----------.
*Numsealp1  (D) Number of permanent teeth with obviously sealed surfaces.
FRE tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tclr1
      tcll1 tcll2 tcll3 tcll4  tcll5 tcll6 tcll7.

*-----.
*Upper right.
IF any(11, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7seal = 1.
IF any(11, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6seal = 1.
IF any(11, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5seal = 1.
IF any(11, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4seal = 1.
IF any(11, ur3d, ur3m, ur3b, ur3l) tcur3seal = 1.
IF any(11, ur2d, ur2m, ur2b, ur2l) tcur2seal = 1.
IF any(11, ur1d, ur1m, ur1b, ur1l) tcur1seal = 1.

*-----.
*Upper left.
IF any(11, ul1d, ul1m, ul1b, ul1l) tcul1seal = 1.
IF any(11, ul2d, ul2m, ul2b, ul2l) tcul2seal = 1.
IF any(11, ul3d, ul3m, ul3b, ul3l) tcul3seal = 1.
IF any(11, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4seal = 1.
IF any(11, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5seal = 1.
IF any(11, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6seal = 1.
IF any(11, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7seal = 1.

*-----.
*Lower right.
IF any(11, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7seal = 1.
IF any(11, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6seal = 1.
IF any(11, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5seal = 1.
IF any(11, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4seal = 1.
IF any(11, lr3d, lr3m, lr3b, lr3l) tclr3seal = 1.
IF any(11, lr2d, lr2m, lr2b, lr2l) tclr2seal = 1.
IF any(11, lr1d, lr1m, lr1b, lr1l) tclr1seal = 1.
```

```
*-----.
*Lower left.
IF any(11, ll1d, ll1m, ll1b, ll1l) tcll1seal = 1.
IF any(11, ll2d, ll2m, ll2b, ll2l) tcll2seal = 1.
IF any(11, ll3d, ll3m, ll3b, ll3l) tcll3seal = 1.
IF any(11, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4seal = 1.
IF any(11, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5seal = 1.
IF any(11, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6seal = 1.
IF any(11, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7seal = 1.

*-----.
EXECUTE.

*-----.
*Set missing values and zeros for individual tooth vars.
DO REPEAT xtooth = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tclr1
            tcll1 tcll2 tcll3 tcll4  tcll5 tcll6 tcll7
      /ysealtooth = tcur7seal tcur6seal tcur5seal tcur4seal tcur3seal tcur2seal tcur1seal tcul1seal tcul2seal tcul3seal
            tcul4seal tcul5seal tcul6seal tcul7seal tclr7seal tclr6seal tclr5seal tclr4seal tclr3seal tclr2seal tclr1seal
            tcll1seal tcll2seal tcll3seal tcll4seal tcll5seal tcll6seal tcll7seal.
      RECODE ysealtooth (sysmis = 0).
      IF range(xtooth, -9, -1) ysealtooth = xtooth.
END REPEAT.

FORMATS tcur7seal TO tcll7seal (F2).

VALUE LABELS tcur7seal TO tcll7seal
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable"
      0 "Obviously sealed surfaces not recorded"
      1 "Obviously sealed surfaces recorded".

FREQUENCIES tcur7seal TO tcll7seal.

*-----.
NUMERIC Numsealp1 (F2).
VARIABLE LABELS Numsealp1 "(D) Number of permanent teeth with obviously sealed surfaces".
VALUE LABELS Numsealp1
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable".

COMPUTE Numsealp1 = -42.
COUNT Numsealp1 = tcur7seal TO tcll7seal (1).
FREQUENCIES Numsealp1.
```

```
NUMERIC Anysealp1 (F2).
VARIABLE LABELS Anysealp1 "(D) Any permanent teeth with obviously sealed surfaces".
VALUE LABELS Anysealp1
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable"
      0 "Not recorded"
      1 "Recorded".

COMPUTE Anysealp1 = -42.
RECODE Numsealp1 (0 = 0) (1 thru hi = 1) INTO Anysealp1.
FREQUENCIES Anysealp1.

CROSSTABS Numsealp1 BY Anysealp1.


*---------------------.
*Traumatised surfaces.
*----------.

*----------.
*Numtraud1 (D) Number of deciduous teeth with traumatised surfaces.
FRE tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle.

*-----.
*Upper right.
IF any(12, ur5d, ur5o, ur5m, ur5b, ur5l) tcuretrau = 1.
IF any(12, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdtrau = 1.
IF any(12, ur3d, ur3m, ur3b, ur3l) tcurctrau = 1.
IF any(12, ur2d, ur2m, ur2b, ur2l) tcurbtrau = 1.
IF any(12, ur1d, ur1m, ur1b, ur1l) tcuratrau = 1.

*-----.
*Upper left.
IF any(12, ul1d, ul1m, ul1b, ul1l) tculatrau = 1.
IF any(12, ul2d, ul2m, ul2b, ul2l) tculbtrau = 1.
IF any(12, ul3d, ul3m, ul3b, ul3l) tculctrau = 1.
IF any(12, ul4d, ul4o, ul4m, ul4b, ul4l) tculdtrau = 1.
IF any(12, ul5d, ul5o, ul5m, ul5b, ul5l) tculetrau = 1.
*-----.
*Lower right.
IF any(12, lr5d, lr5o, lr5m, lr5b, lr5l) tclretrau = 1.
IF any(12, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdtrau = 1.
IF any(12, lr3d, lr3m, lr3b, lr3l) tclrctrau = 1.
IF any(12, lr2d, lr2m, lr2b, lr2l) tclrbtrau = 1.
IF any(12, lr1d, lr1m, lr1b, lr1l) tclratrau = 1.
```

```
*-----.
*Lower left.
IF any(12, ll1d, ll1m, ll1b, ll1l) tcllatrau = 1.
IF any(12, ll2d, ll2m, ll2b, ll2l) tcllbtrau = 1.
IF any(12, ll3d, ll3m, ll3b, ll3l) tcllctrau = 1.
IF any(12, ll4d, ll4o, ll4m, ll4b, ll4l) tclldtrau = 1.
IF any(12, ll5d, ll5o, ll5m, ll5b, ll5l) tclletrau = 1.

*-----.
EXECUTE.

*-----.
*Set missing values and zeros for individual tooth vars.
DO REPEAT xtooth = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle
      /ytrautooth = tcuretrau TO tclletrau.
      RECODE ytrautooth (sysmis = 0).
      IF range(xtooth, -9, -1) ytrautooth = xtooth.
END REPEAT.

FORMATS tcuretrau TO tclletrau (F2).

VALUE LABELS tcuretrau TO tclletrau
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable"
      0 "Traumatised surfaces not recorded"
      1 "Traumatised surfaces recorded".

FREQUENCIES tcuretrau TO tclletrau.

*-----.
NUMERIC Numtraud1 (F2).
VARIABLE LABELS Numtraud1 "(D) Number of deciduous teeth with traumatised surfaces".
VALUE LABELS Numtraud1
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable".

COMPUTE Numtraud1 = -42.
COUNT Numtraud1 = tcuretrau TO tclletrau (1).
FREQUENCIES Numtraud1.

NUMERIC Anytraud1 (F2).
VARIABLE LABELS Anytraud1 "(D) Any deciduous teeth with traumatised surfaces".
VALUE LABELS Anytraud1
      -9 "Refusal"
      -8 "Don't know"
```

```
      -1 "Not applicable"
      0 "Not recorded"
      1 "Recorded".

COMPUTE Anytraud1 = -42.
RECODE Numtraud1 (0 = 0) (1 thru hi = 1) INTO Anytraud1.
FREQUENCIES Anytraud1.

CROSSTABS Numtraud1 BY Anytraud1.

*----------.
*Numtraup1 (D) Number of permanent teeth with traumatised surfaces.
FRE tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tclr1
      tcll1 tcll2 tcll3 tcll4  tcll5 tcll6 tcll7.

*-----.
*Upper right.
IF any(12, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7trau = 1.
IF any(12, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6trau = 1.
IF any(12, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5trau = 1.
IF any(12, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4trau = 1.
IF any(12, ur3d, ur3m, ur3b, ur3l) tcur3trau = 1.
IF any(12, ur2d, ur2m, ur2b, ur2l) tcur2trau = 1.
IF any(12, ur1d, ur1m, ur1b, ur1l) tcur1trau = 1.

*-----.
*Upper left.
IF any(12, ul1d, ul1m, ul1b, ul1l) tcul1trau = 1.
IF any(12, ul2d, ul2m, ul2b, ul2l) tcul2trau = 1.
IF any(12, ul3d, ul3m, ul3b, ul3l) tcul3trau = 1.
IF any(12, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4trau = 1.
IF any(12, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5trau = 1.
IF any(12, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6trau = 1.
IF any(12, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7trau = 1.

*-----.
*Lower right.
IF any(12, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7trau = 1.
IF any(12, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6trau = 1.
IF any(12, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5trau = 1.
IF any(12, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4trau = 1.
IF any(12, lr3d, lr3m, lr3b, lr3l) tclr3trau = 1.
IF any(12, lr2d, lr2m, lr2b, lr2l) tclr2trau = 1.
IF any(12, lr1d, lr1m, lr1b, lr1l) tclr1trau = 1.

*-----.
*Lower left.
```

```
IF any(12, ll1d, ll1m, ll1b, ll1l) tcll1trau = 1.
IF any(12, ll2d, ll2m, ll2b, ll2l) tcll2trau = 1.
IF any(12, ll3d, ll3m, ll3b, ll3l) tcll3trau = 1.
IF any(12, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4trau = 1.
IF any(12, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5trau = 1.
IF any(12, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6trau = 1.
IF any(12, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7trau = 1.

*-----.
EXECUTE.

*-----.
*Set missing values and zeros for individual tooth vars.
DO REPEAT xtooth = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tclr1
        tcll1 tcll2 tcll3 tcll4  tcll5 tcll6 tcll7
    /ytrautooth = tcur7trau tcur6trau tcur5trau tcur4trau tcur3trau tcur2trau tcur1trau tcul1trau tcul2trau tcul3trau
        tcul4trau tcul5trau tcul6trau tcul7trau tclr7trau tclr6trau tclr5trau tclr4trau tclr3trau tclr2trau tclr1trau
        tcll1trau tcll2trau tcll3trau tcll4trau tcll5trau tcll6trau tcll7trau.
    RECODE ytrautooth (sysmis = 0).
    IF range(xtooth, -9, -1) ytrautooth = xtooth.
END REPEAT.

FORMATS tcur7trau TO tcll7trau (F2).

VALUE LABELS tcur7trau TO tcll7trau
    -9 "Refusal"
    -8 "Don't know"
    -1 "Not applicable"
    0 "Traumatised surfaces not recorded"
    1 "Traumatised surfaces recorded".

FREQUENCIES tcur7trau TO tcll7trau.

*-----.
NUMERIC Numtraup1 (F2).
VARIABLE LABELS Numtraup1 "(D) Number of permanent teeth with traumatised surfaces".
VALUE LABELS Numtraup1
    -9 "Refusal"
    -8 "Don't know"
    -1 "Not applicable".

COMPUTE Numtraup1 = -42.
COUNT Numtraup1 = tcur7trau TO tcll7trau (1).
FREQUENCIES Numtraup1.

NUMERIC Anytraup1 (F2).
VARIABLE LABELS Anytraup1 "(D) Any permanent teeth with traumatised surfaces".
```

```
VALUE LABELS Anytraup1
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable"
      0 "Not recorded"
      1 "Recorded".

COMPUTE Anytraup1 = -42.
RECODE Numtraup1 (0 = 0) (1 thru hi = 1) INTO Anytraup1.
FREQUENCIES Anytraup1.

CROSSTABS Numtraup1 BY Anytraup1.


*---------------------.
*Advanced restorations.
*----------.

*----------.
*Numrestd1  (D) Number of deciduous teeth with advanced restorations.
FRE tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle.

*-----.
*Upper right.
IF any(13, ur5d, ur5o, ur5m, ur5b, ur5l) tcurerest = 1.
IF any(13, ur4d, ur4o, ur4m, ur4b, ur4l) tcurdrest = 1.
IF any(13, ur3d, ur3m, ur3b, ur3l) tcurcrest = 1.
IF any(13, ur2d, ur2m, ur2b, ur2l) tcurbrest = 1.
IF any(13, ur1d, ur1m, ur1b, ur1l) tcurarest = 1.

*-----.
*Upper left.
IF any(13, ul1d, ul1m, ul1b, ul1l) tcularest = 1.
IF any(13, ul2d, ul2m, ul2b, ul2l) tculbrest = 1.
IF any(13, ul3d, ul3m, ul3b, ul3l) tculcrest = 1.
IF any(13, ul4d, ul4o, ul4m, ul4b, ul4l) tculdrest = 1.
IF any(13, ul5d, ul5o, ul5m, ul5b, ul5l) tculerest = 1.
*-----.
*Lower right.
IF any(13, lr5d, lr5o, lr5m, lr5b, lr5l) tclrerest = 1.
IF any(13, lr4d, lr4o, lr4m, lr4b, lr4l) tclrdrest = 1.
IF any(13, lr3d, lr3m, lr3b, lr3l) tclrcrest = 1.
IF any(13, lr2d, lr2m, lr2b, lr2l) tclrbrest = 1.
IF any(13, lr1d, lr1m, lr1b, lr1l) tclrarest = 1.

*-----.
*Lower left.
```

```
IF any(13, ll1d, ll1m, ll1b, ll1l) tcllarest = 1.
IF any(13, ll2d, ll2m, ll2b, ll2l) tcllbrest = 1.
IF any(13, ll3d, ll3m, ll3b, ll3l) tcllcrest = 1.
IF any(13, ll4d, ll4o, ll4m, ll4b, ll4l) tclldrest = 1.
IF any(13, ll5d, ll5o, ll5m, ll5b, ll5l) tcllerest = 1.

*-----.
EXECUTE.

*-----.
*Set missing values and zeros for individual tooth vars.
DO REPEAT xtooth = tcure tcurd tcurc tcurb tcura tcula tculb tculc tculd tcule tclre tclrd tclrc tclrb tclra tclla tcllb tcllc tclld tclle
      /yresttooth = tcurerest TO tcllerest.
      RECODE yresttooth (sysmis = 0).
      IF range(xtooth, -9, -1) yresttooth = xtooth.
END REPEAT.

FORMATS tcurerest TO tcllerest (F2).

VALUE LABELS tcurerest TO tcllerest
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable"
      0 "Advanced restorations not recorded"
      1 "Advanced restorations recorded".

FREQUENCIES tcurerest TO tcllerest.

*-----.
NUMERIC Numrestd1 (F2).
VARIABLE LABELS Numrestd1 "(D) Number of deciduous teeth with advanced restorations".
VALUE LABELS Numrestd1
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable".

COMPUTE Numrestd1 = -42.
COUNT Numrestd1 = tcurerest TO tcllerest (1).
FREQUENCIES Numrestd1.

NUMERIC Anyrestd1 (F2).
VARIABLE LABELS Anyrestd1 "(D) Any deciduous teeth with advanced restorations".
VALUE LABELS Anyrestd1
      -9 "Refusal"
      -8 "Don't know"
      -1 "Not applicable"
      0 "Not recorded"
```

```
      1 "Recorded".

COMPUTE Anyrestd1 = -42.
RECODE Numrestd1 (0 = 0) (1 thru hi = 1) INTO Anyrestd1.
FREQUENCIES Anyrestd1.

CROSSTABS Numrestd1 BY Anyrestd1.

*
*----------.
*Numrestp1  (D) Number of permanent teeth with advanced restorations.
FRE tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tclr1
      tcll1 tcll2 tcll3 tcll4  tcll5 tcll6 tcll7.

*-----.
*Upper right.
IF any(13, ur7d, ur7o, ur7m, ur7b, ur7l) tcur7rest = 1.
IF any(13, ur6d, ur6o, ur6m, ur6b, ur6l) tcur6rest = 1.
IF any(13, ur5d, ur5o, ur5m, ur5b, ur5l) tcur5rest = 1.
IF any(13, ur4d, ur4o, ur4m, ur4b, ur4l) tcur4rest = 1.
IF any(13, ur3d, ur3m, ur3b, ur3l) tcur3rest = 1.
IF any(13, ur2d, ur2m, ur2b, ur2l) tcur2rest = 1.
IF any(13, ur1d, ur1m, ur1b, ur1l) tcur1rest = 1.

*-----.
*Upper left.
IF any(13, ul1d, ul1m, ul1b, ul1l) tcul1rest = 1.
IF any(13, ul2d, ul2m, ul2b, ul2l) tcul2rest = 1.
IF any(13, ul3d, ul3m, ul3b, ul3l) tcul3rest = 1.
IF any(13, ul4d, ul4o, ul4m, ul4b, ul4l) tcul4rest = 1.
IF any(13, ul5d, ul5o, ul5m, ul5b, ul5l) tcul5rest = 1.
IF any(13, ul6d, ul6o, ul6m, ul6b, ul6l) tcul6rest = 1.
IF any(13, ul7d, ul7o, ul7m, ul7b, ul7l) tcul7rest = 1.

*-----.
*Lower right.
IF any(13, lr7d, lr7o, lr7m, lr7b, lr7l) tclr7rest = 1.
IF any(13, lr6d, lr6o, lr6m, lr6b, lr6l) tclr6rest = 1.
IF any(13, lr5d, lr5o, lr5m, lr5b, lr5l) tclr5rest = 1.
IF any(13, lr4d, lr4o, lr4m, lr4b, lr4l) tclr4rest = 1.
IF any(13, lr3d, lr3m, lr3b, lr3l) tclr3rest = 1.
IF any(13, lr2d, lr2m, lr2b, lr2l) tclr2rest = 1.
IF any(13, lr1d, lr1m, lr1b, lr1l) tclr1rest = 1.

*-----.
*Lower left.
IF any(13, ll1d, ll1m, ll1b, ll1l) tcll1rest = 1.
```

```
IF any(13, ll2d, ll2m, ll2b, ll2l) tcll2rest = 1.
IF any(13, ll3d, ll3m, ll3b, ll3l) tcll3rest = 1.
IF any(13, ll4d, ll4o, ll4m, ll4b, ll4l) tcll4rest = 1.
IF any(13, ll5d, ll5o, ll5m, ll5b, ll5l) tcll5rest = 1.
IF any(13, ll6d, ll6o, ll6m, ll6b, ll6l) tcll6rest = 1.
IF any(13, ll7d, ll7o, ll7m, ll7b, ll7l) tcll7rest = 1.

*-----.
EXECUTE.

*-----.
*Set missing values and zeros for individual tooth vars.
DO REPEAT xtooth = tcur7 tcur6 tcur5 tcur4 tcur3 tcur2 tcur1 tcul1 tcul2  tcul3 tcul4 tcul5 tcul6 tcul7 tclr7 tclr6 tclr5 tclr4 tclr3 tclr2 tclr1
        tcll1 tcll2 tcll3 tcll4  tcll5 tcll6 tcll7
    /yresttooth = tcur7rest tcur6rest tcur5rest tcur4rest tcur3rest tcur2rest tcur1rest tcul1rest tcul2rest tcul3rest
        tcul4rest tcul5rest tcul6rest tcul7rest tclr7rest tclr6rest tclr5rest tclr4rest tclr3rest tclr2rest tclr1rest
        tcll1rest tcll2rest tcll3rest tcll4rest tcll5rest tcll6rest tcll7rest.
    RECODE yresttooth (sysmis = 0).
    IF range(xtooth, -9, -1) yresttooth = xtooth.
END REPEAT.

FORMATS tcur7rest TO tcll7rest (F2).

VALUE LABELS tcur7rest TO tcll7rest
    -9 "Refusal"
    -8 "Don't know"
    -1 "Not applicable"
    0 "Advanced restorations not recorded"
    1 "Advanced restorations recorded".

FREQUENCIES tcur7rest TO tcll7rest.

*-----.
NUMERIC Numrestp1 (F2).
VARIABLE LABELS Numrestp1 "(D) Number of permanent teeth with advanced restorations".
VALUE LABELS Numrestp1
    -9 "Refusal"
    -8 "Don't know"
    -1 "Not applicable".

COMPUTE Numrestp1 = -42.
COUNT Numrestp1 = tcur7rest TO tcll7rest (1).
FREQUENCIES Numrestp1.

NUMERIC Anyrestp1 (F2).
VARIABLE LABELS Anyrestp1 "(D) Any permanent teeth with advanced restorations".
VALUE LABELS Anyrestp1
```

```
    -9 "Refusal"
    -8 "Don't know"
    -1 "Not applicable"
    0 "Not recorded"
    1 "Recorded".

COMPUTE Anyrestp1 = -42.
RECODE Numrestp1 (0 = 0) (1 thru hi = 1) INTO Anyrestp1.
FREQUENCIES Anyrestp1.

CROSSTABS Numrestp1 BY Anyrestp1.
```

```
missing values all () .

recode ur4t (1 thru 8 = 1) (else = copy) into opacur4 .
recode ur3t (1 thru 8 = 1) (else = copy) into opacur3 .
recode ur2t (1 thru 8 = 1) (else = copy) into opacur2 .
recode ur1t (1 thru 8 = 1) (else = copy) into opacur1 .
recode ul1t (1 thru 8 = 1) (else = copy) into opacul1 .
recode ul2t (1 thru 8 = 1) (else = copy) into opacul2 .
recode ul3t (1 thru 8 = 1) (else = copy) into opacul3 .
recode ul4t (1 thru 8 = 1) (else = copy) into opacul4 .

var lab opacur4 '(D) UR4 enamel opacities' .
var lab opacur3 '(D) UR3 enamel opacities' .
var lab opacur2 '(D) UR2 enamel opacities' .
var lab opacur1 '(D) UR1 enamel opacities' .
var lab opacul1 '(D) UL1 enamel opacities' .
var lab opacul2 '(D) UL2 enamel opacities' .
var lab opacul3 '(D) UL3 enamel opacities' .
var lab opacul4 '(D) UL4 enamel opacities' .

val lab opacur4 to opacul4 -9 'Not coded' -1 'Not applicable' 0 'No opacities' 1 'Opacities present'
 9 'Assessment could not be made' .

compute anyopac = 999 .
do if any (1, opacur4, opacur3, opacur2, opacur1, opacul1, opacul2, opacul3, opacul4) .
recode anyopac (999 = 1) .
else if any (0, opacur4, opacur3, opacur2, opacur1, opacul1, opacul2, opacul3, opacul4)  .
recode anyopac (999 = 0) .
else if anyopac = 999 .
compute anyopac = opacur4 .
end if .

var lab anyopac '(D) Any enamel opacities' .
val lab anyopac -9 'Not coded' -1 'Not applicable' 0 'No opacities' 1 'Opacities present'
 9 'Assessment could not be made' .

fre opacur4 to anyopac .
tab/tab anyopac by age .

temp.
select if age  = 12.
fre anyopac.

*For trend purposes need to code missing data for 12 year olds to opacities not present.

If (age = 12 and anyopac < 0) anyopac = 0.
```

```
If (age = 12 and anyopac = 9) anyopac = 0.
exe.
fre anyopac.

**********************************************************************************************************.

compute demarc = 0 .
if any(1, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) demarc = 1 .
if any(4, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) demarc = 1 .
if any(5, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) demarc = 1 .
if any(7, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) demarc = 1 .
if age<>12 demarc = -1 .

compute diffuse = 0 .
if any(2, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) diffuse = 1 .
if any(4, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) diffuse = 1 .
if any(6, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) diffuse = 1 .
if any(7, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) diffuse = 1 .
if age<>12 diffuse = -1 .

compute hypopl = 0 .
if any(3, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) hypopl = 1 .
if any(5, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) hypopl = 1 .
if any(6, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) hypopl = 1 .
if any(7, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) hypopl = 1 .
if age<>12 hypopl = -1 .

compute demdif = 0 .
if any(4, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) demdif = 1 .
if age<>12 demdif = -1 .

compute demhyp = 0 .
if any(5, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) demhyp = 1 .
if age<>12 demhyp = -1 .

compute difhyp = 0 .
if any(6, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) difhyp = 1 .
if age<>12 difhyp = -1 .

compute all3opac = 0 .
if any(7, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) all3opac = 1 .
if age<>12 all3opac = -1 .

compute othopac = 0 .
if any(8, ur4t, ur3t, ur2t, ur1t, ul1t, ul2t, ul3t, ul4t) othopac = 1 .
if age<>12 othopac = -1 .
```

```
var lab demarc '(D) Any demarcated opacity' .
var lab diffuse '(D) Any diffuse opacity' .
var lab hypopl '(D) Any hypoplasic opacity' .
var lab demdif '(D) Demarcated and diffuse opacity' .
var lab demhyp '(D) Demarcated and hypoplasic opacity' .
var lab difhyp '(D) Diffuse and hypoplasic opacity' .
var lab all3opac '(D) All three types of opacity' .
var lab othopac '(D) Other enamel defects' .

val lab demarc to othopac -1 'Not applicable' 0 'Not present' 1 'Present' .

fre demarc to othopac .

**********************************************************************************************************************.

compute demur4 = 999 .
do if age<>12 .
compute demur4 = -1 .
else if ur4t = 1 .
compute demur4 = ur4e.
else if ur4t <> 1 .
compute demur4 =  0 .
end if .

compute demur3 = 999 .
do if age<>12 .
compute demur3 = -1 .
else if ur3t = 1 .
compute demur3 = ur3e.
else if ur3t <> 1 .
compute demur3 =  0 .
end if .

compute demur2 = 999 .
do if age<>12 .
compute demur2 = -1 .
else if ur2t = 1 .
compute demur2 = ur2e.
else if ur2t <> 1 .
compute demur2 =  0 .
end if .

compute demur1 = 999 .
do if age<>12 .
compute demur1 = -1 .
else if ur1t = 1 .
compute demur1 = ur1e.
```

```
else if ur1t <> 1 .
compute demur1 =  0 .
end if .

compute demul1 = 999 .
if ul1t = 1 demul1 = ul1e.
if ul1t <> 1 demul1 =  0 .
if age<>12 demul1 = -1 .

compute demul2 = 999 .
do if age<>12 .
compute demul2 = -1 .
else if ul2t = 1 .
compute demul2 = ul2e.
else if ul2t <> 1 .
compute demul2 =  0 .
end if .

compute demul3 = 999 .
do if age<>12 .
compute demul3 = -1 .
else if ul3t = 1 .
compute demul3 = ul3e.
else if ul3t <> 1 .
compute demul3 =  0 .
end if .

compute demul4 = 999 .
do if age<>12 .
compute demul4 = -1 .
else if ul4t = 1 .
compute demul4 = ul4e.
else if ul4t <> 1 .
compute demul4 =  0 .
end if .

var lab demur4 '(D) UR4 extent of demarcated opacity' .
var lab demur3 '(D) UR3 extent of demarcated opacity' .
var lab demur2 '(D) UR2 extent of demarcated opacity' .
var lab demur1 '(D) UR1 extent of demarcated opacity' .
var lab demul1 '(D) UL1 extent of demarcated opacity' .
var lab demul2 '(D) UL2 extent of demarcated opacity' .
var lab demul3 '(D) UL3 extent of demarcated opacity' .
var lab demul4 '(D) UL4 extent of demarcated opacity' .

val lab demur4 to demul4 -9 'Not coded' -1 'Not applicable' 0 'No demarcated opacity'
 1 'less than 1/3' 2 'over 1/3, less than 2/3' 3 '2/3 surface or more' .
```

```
fre demur4 to demul4 .

*************************************************************************************************************.

compute difur4 = 999 .
do if age<>12 .
compute difur4 = -1 .
else if ur4t = 2 .
compute difur4 = ur4e.
else if ur4t <> 2 .
compute difur4 =  0 .
end if .

compute difur3 = 999 .
do if age<>12 .
compute difur3 = -1 .
else if ur3t = 2 .
compute difur3 = ur3e.
else if ur3t <> 2 .
compute difur3 =  0 .
end if .

compute difur2 = 999 .
do if age<>12 .
compute difur2 = -1 .
else if ur2t = 2 .
compute difur2 = ur2e.
else if ur2t <> 2 .
compute difur2 =  0 .
end if .

compute difur1 = 999 .
do if age<>12 .
compute difur1 = -1 .
else if ur1t = 2 .
compute difur1 = ur1e.
else if ur1t <> 2 .
compute difur1 =  0 .
end if .

compute diful1 = 999 .
if ul1t = 2 diful1 = ul1e.
if ul1t <> 2 diful1 =  0 .
if age<>12 diful1 = -1 .

compute diful2 = 999 .
```

```
do if age<>12 .
compute diful2 = -1 .
else if ul2t = 2 .
compute diful2 = ul2e.
else if ul2t <> 2 .
compute diful2 =  0 .
end if .

compute diful3 = 999 .
do if age<>12 .
compute diful3 = -1 .
else if ul3t = 2 .
compute diful3 = ul3e.
else if ul3t <> 2 .
compute diful3 =  0 .
end if .

compute diful4 = 999 .
do if age<>12 .
compute diful4 = -1 .
else if ul4t = 2 .
compute diful4 = ul4e.
else if ul4t <> 2 .
compute diful4 =  0 .
end if .

var lab difur4 '(D) UR4 extent of diffuse opacity' .
var lab difur3 '(D) UR3 extent of diffuse opacity' .
var lab difur2 '(D) UR2 extent of diffuse opacity' .
var lab difur1 '(D) UR1 extent of diffuse opacity' .
var lab diful1 '(D) UL1 extent of diffuse opacity' .
var lab diful2 '(D) UL2 extent of diffuse opacity' .
var lab diful3 '(D) UL3 extent of diffuse opacity' .
var lab diful4 '(D) UL4 extent of diffuse opacity' .

val lab difur4 to diful4 -9 'Not coded' -1 'Not applicable' 0 'No diffuse opacity'
 1 'less than 1/3' 2 'over 1/3, less than 2/3' 3 '2/3 surface or more' .

fre difur4 to diful4 .

**********************************************************************************************************.

compute ddur4 = 999 .
do if age<>12 .
compute ddur4 = -1 .
else if ur4t = 4 .
compute ddur4 = ur4e.
```

```
else if ur4t <> 4 .
compute ddur4 =  0 .
end if .

compute ddur3 = 999 .
do if age<>12 .
compute ddur3 = -1 .
else if ur3t = 4 .
compute ddur3 = ur3e.
else if ur3t <> 4 .
compute ddur3 =  0 .
end if .

compute ddur2 = 999 .
do if age<>12 .
compute ddur2 = -1 .
else if ur2t = 4 .
compute ddur2 = ur2e.
else if ur2t <> 4 .
compute ddur2 =  0 .
end if .

compute ddur1 = 999 .
do if age<>12 .
compute ddur1 = -1 .
else if ur1t = 4 .
compute ddur1 = ur1e.
else if ur1t <> 4 .
compute ddur1 =  0 .
end if .

compute ddul1 = 999 .
if ul1t = 4 ddul1 = ul1e.
if ul1t <> 4 ddul1 =  0 .
if age<>12 ddul1 = -1 .

compute ddul2 = 999 .
do if age<>12 .
compute ddul2 = -1 .
else if ul2t = 4 .
compute ddul2 = ul2e.
else if ul2t <> 4 .
compute ddul2 =  0 .
end if .

compute ddul3 = 999 .
do if age<>12 .
```

```
compute ddul3 = -1 .
else if ul3t = 4 .
compute ddul3 = ul3e.
else if ul3t <> 4 .
compute ddul3 =  0 .
end if .

compute ddul4 = 999 .
do if age<>12 .
compute ddul4 = -1 .
else if ul4t = 4 .
compute ddul4 = ul4e.
else if ul4t <> 4 .
compute ddul4 =  0 .
end if .

var lab ddur4 '(D) UR4 extent of demarcated and diffuse opacity' .
var lab ddur3 '(D) UR3 extent of demarcated and diffuse opacity' .
var lab ddur2 '(D) UR2 extent of demarcated and diffuse opacity' .
var lab ddur1 '(D) UR1 extent of demarcated and diffuse opacity' .
var lab ddul1 '(D) UL1 extent of demarcated and diffuse opacity' .
var lab ddul2 '(D) UL2 extent of demarcated and diffuse opacity' .
var lab ddul3 '(D) UL3 extent of demarcated and diffuse opacity' .
var lab ddul4 '(D) UL4 extent of demarcated and diffuse opacity' .

val lab ddur4 to ddul4 -9 'Not coded' -1 'Not applicable' 0 'No demarcated and diffuse opacity'
 1 'less than 1/3' 2 'over 1/3, less than 2/3' 3 '2/3 surface or more' .

fre ddur4 to ddul4 .
```

```
missing values all() .

compute undtreat = 999 .
do if age< 12 .
recode undtreat (999 = -1) .
else if appupp = 0 & applow = 0 & noapp<3 .
recode undtreat (999 = 0) .
else if appupp>0 | applow> 0 | noapp = 3 .
recode undtreat (999 = 1) .
else if appworn = 1 .
recode undtreat (999 = 1 ).
else if appupp = -9 | applow = -9 | noapp=-9 | appworn = -9 .
recode undtreat (999 = -9) .
end if .
var lab undtreat '(D) Undergoing orthodontic treatment at time of survey' .
val lab undtreat -9 'Not coded' -1 'Not applicable' 0 'No' 1 'Yes' .

compute iotndh2 = iotndh .
if iotndh = -9 iotndh2 = 0 .
var lab iotndh2 '(D) IOTN dental health component - no response coded as 0' .
val lab iotndh2 -1 'Not applicable' 0 'No' 1 'Yes' .

tab/tab iotndh by iotndh2 .

compute iotnaest = 999 .
do if range(aesth, 1,7) .
recode iotnaest (999= 1) .
else if range(aesth, 8,10) .
recode iotnaest (999=2) .
else if aesth<0 .
compute iotnaest=aesth .
end if .

var lab iotnaest  '(D) IOTN aesthetic score grouped' .
val lab iotnaest -9 'Not coded' -1 'Not applicable' 1 'Score 0 to 7' 2 'Score 8 to 10' .

tab/tab aesth by iotnaest .

recode misortho (1 thru hi = 1) (else = copy) into misorthgp .
var lab misorthgp '(D) Any teeth extracted for orthodontic reasons' .
val lab misorthgp -9 'Not coded' -1 'Not applicable' 0 'No' 1 'Yes' .

*-----.
*Derive any ortho treatment need var.
```

```
*4.35.
NUMERIC anyiotn (F2).
VARIABLE LABELS anyiotn "(D) Any unmet orthodontic treatment need (dental health component or aesthetic component score 8-10)".
VALUE LABELS anyiotn 0 "No" 1 "Yes".

compute anyiotn = iotndh2 .
if iotnaest = 2 anyiotn = 1 .
EXECUTE.

***appnow = appworn .

compute appast = 999 .
if noapp=1 | noapp=2 appast = 1 .
if noapp=0 appast = 0 .
if noapp=3 appast =0 .
if noapp<0 appast = noapp .
var lab appast '(D) Appliance worn in past (not currently)' .
val lab appast -9 'Not coded' -1 'Not applicable' 0 'No' 1 'Yes' .

tab/tab appast by noapp .

compute appfixed = 999 .
if appupp=1 | applow=1 appfixed = 1 .
if appupp<>1 & applow<>1 appfixed = 0 .
if age<12 appfixed = -1 .
if appupp=-9 & applow=-9 appfixed = -9 .

compute apprem = 999 .
if appupp=2 | applow=2 apprem = 1 .
if appupp<>2 & applow<>2 apprem = 0 .
if age<12 apprem = -1 .
if appupp=-9 & applow=-9 apprem = -9 .

compute appoth = 999 .
if appupp=3 | applow=3 appoth = 1 .
if appupp<>3 & applow<>3 appoth = 0 .
if age<12 appoth = -1 .
if appupp=-9 & applow=-9 appoth = -9 .

var lab appfixed '(D) Wears fixed appliance' .
var lab apprem '(D) Wears removable appliance' .
var lab appoth '(D) Wears another type of appliance' .
val lab appfixed to appoth  -9 'Not coded' -1 'Not applicable' 0 'No' 1 'Yes' .

fre appfixed to appoth .
```

```
missing values all() .


*-----.
*Perio I
      gingivae            (D) Health of gums
      plaque        (D) Presence of plaque
      calculus            (D) Presence of calculus.


*----------.
*Perio I.

*-----.
*2013 but assume 9 counts (could not be assessed) as sound unless all components are coded 9.
compute gingivae13=999 .
if any(9,  urg, umg, ulg, lrg, lmg, llg) gingivae13 = 9 .
if any(0,  urg, umg, ulg, lrg, lmg, llg) gingivae13 = 2 .
if any(-9,  urg, umg, ulg, lrg, lmg, llg) gingivae13 = -9 .
if any (1, urg, umg, ulg, lrg, lmg, llg) gingivae13 = 1 .
var lab gingivae13 '(D) Health of gums alternative version' .
val lab gingivae13 -9 'Not coded' 1 'Some gum disease' 2 'Healthy gums' 9 'Could not be assessed' .

FRE gingivae13.

TEMP.
SEL IF gingivae13 = -9.
LIST serial urg, umg, ulg, lrg, lmg, llg.
*correct.

TEMP.
SEL IF gingivae13 = 9.
LIST serial urg, umg, ulg, lrg, lmg, llg.
*no cases.

TEMP.
SEL IF gingivae13 = 2.
FRE urg, umg, ulg, lrg, lmg, llg.
*All 0 healthy, a few = 9 = correct.

TEMP.
SEL IF gingivae13 NE 1 AND any(1, urg, umg, ulg, lrg, lmg, llg).
LIST serial.
*0 cases, correct.

compute plaque13=999 .
```

```
if any(9,  urp, ump, ulp, lrp, lmp, llp) plaque13 = 9 .
if any(0,  urp, ump, ulp, lrp, lmp, llp) plaque13 = 2 .
if any(-9,  urp, ump, ulp, lrp, lmp, llp) plaque13 = -9 .
if any (1, urp, ump, ulp, lrp, lmp, llp) plaque13 = 1 .
var lab plaque13 '(D) Presence of plaque alternative version' .
val lab plaque13 -9 'Not coded' 1 'Plaque visible' 2 'No plaque' 9 'Could not be assessed' .

compute calculus13=999 .
if any(9,  urc, umc, ulc, lrc, lmc, llc) calculus13 = 9 .
if any(0,  urc, umc, ulc, lrc, lmc, llc) calculus13 = 2 .
if any(-9,  urc, umc, ulc, lrc, lmc, llc) calculus13 = -9 .
if any (1, urc, umc, ulc, lrc, lmc, llc) calculus13 = 1 .
var lab calculus13 '(D) Presence of calculus alternative version' .
val lab calculus13 -9 'Not coded' 1 'Calculus present' 2 'No calculus' 9 'Could not be assessed' .

FRE gingivae13 to calculus13 .

*-----.
*2003 - present or all other.
compute gingivae03 = 2 .
if any (1, urg, umg, ulg, lrg, lmg, llg) gingivae03 = 1.
var lab gingivae03 '(D) Health of gums 2003 version' .
val lab gingivae03 1 'Some gum disease' 2 'Healthy gums'.

compute plaque03 = 2 .
if any (1, urp, ump, ulp, lrp, lmp, llp) plaque03 = 1.
var lab plaque03 '(D) Presence of plaque 2003 version' .
val lab plaque03 1 'Plaque visible' 2 'No plaque'.

compute calculus03 = 2 .
if any (1, urc, umc, ulc, lrc, lmc, llc) calculus03 = 1.
var lab calculus03 '(D) Presence of calculus 2003 version' .
val lab calculus03 1 'Calculus present' 2 'No calculus'.

fre gingivae03 gingivae13 plaque03 plaque13 calculus03 calculus13.



NUMERIC plaque2 (F2).
VARIABLE LABELS plaque2 '(D) Plaque present in more than one sextant' .
VALUE LABELS plaque2
     -9 "Not coded"
     0 "No"
     1 "Yes".

recode plaque13 (2=0) (else=copy) into plaque2  .
do if plaque13= 1.
```

count plaque2 = urp ump ulp lrp lmp llp (1) .
end if .
if plaque2>0 & plaque2<2 plaque2 = 0 .
if plaque2 >= 2 plaque2 = 1 .

```
missing values all() .

count ipres = lrb2 lra1 lla1 llb2 urb2 ura1 ula1 ulb2 (1) .
var lab ipres '(D) Number of permanent incisors' .

count incpresc = ura1 ula1 (1) .
var lab incpresc '(D) Number of permanent upper central incisors' .

*-----.
NUMERIC idamage (F2).
var lab idamage '(D) Any damage to permanent incisors' .
val lab idamage 0 'No damage to permanent incisors' 1 'Some damage to permanent incisors'.

COMPUTE idamage = 0.
IF (any(1, pilr21, pilr11, pill11, pill21, piur21, piur11, piul11, piul21) or
  any(1, pilr22, pilr12, pill12, pill22, piur22, piur12, piul12, piul22) or
  any(1, pilr23, pilr13, pill13, pill23, piur23, piur13, piul13, piul23) or
  any(1, pilr24, pilr14, pill14, pill24, piur24, piur14, piul14, piul24) or
  any(1, pilr25, pilr15, pill15, pill25, piur25, piur15, piul15, piul25) or
  any(1, pilr26, pilr16, pill16, pill26, piur26, piur16, piul16, piul26) or
  any(1, pilr27, pilr17, pill17, pill27, piur27, piur17, piul17, piul27) or
  any(1, pilr28, pilr18, pill18, pill28, piur28, piur18, piul18, piul28)) idamage = 1.
FRE idamage.

count trauma  = pilr21 pilr11 pill11 pill21 piur21 piur11 piul11 piul21
  pilr22 pilr12 pill12 pill22 piur22 piur12 piul12 piul22
  pilr23 pilr13 pill13 pill23 piur23 piur13 piul13 piul23
  pilr24 pilr14 pill14 pill24 piur24 piur14 piul14 piul24
  pilr25 pilr15 pill15 pill25 piur25 piur15 piul15 piul25
  pilr26 pilr16 pill16 pill26 piur26 piur16 piul16 piul26
  pilr27 pilr17 pill17 pill27 piur27 piur17 piul17 piul27
  pilr28 pilr18 pill18 pill28 piur28 piur18 piul18 piul28 (1)  .
if idamage<0 trauma = idamage .
var lab trauma '(D) Number of permanent incisors with any trauma' .

count restore  = pilr26 pilr16 pill16 pill26 piur26 piur16 piul16 piul26
  pilr27 pilr17 pill17 pill27 piur27 piur17 piul17 piul27
  pilr28 pilr18 pill18 pill28 piur28 piur18 piul18 piul28 (1)  .
if idamage<0 restore = idamage .
var lab restore '(D) Number of permanent incisors with treated trauma' .

fre ipres to restore .

add val lab ipres to restore -9 'Not coded' -1 'Not applicable'  .
```

```
*-----.
NUMERIC discol (F2).
var lab discol '(D) Number of discoloured incisors' .
count discol = pilr21 pilr11 pill11 pill21 piur21 piur11 piul11 piul21 (1)  .

NUMERIC enamf (F2).
var lab enamf '(D) Number of enamel fractures' .
count enamf = pilr22 pilr12 pill12 pill22 piur22 piur12 piul12 piul22 (1)  .

NUMERIC enamdf (F2).
var lab enamdf '(D) Number of fractures to enamel and dentine' .
count enamdf = pilr23 pilr13 pill13 pill23 piur23 piur13 piul13 piul23 (1)  .

NUMERIC edpf (F2).
var lab edpf '(D) Number of fractures to enamel, dentine and pulp' .
count edpf = pilr24 pilr14 pill14 pill24 piur24 piur14 piul14 piul24 (1)  .

NUMERIC imisst (F2).
count imisst = pilr25 pilr15 pill15 pill25 piur25 piur15 piul15 piul25 (1)  .
var lab imisst '(D) Number of teeth missing due to trauma' .

NUMERIC acidetch (F2).
count acidetch = pilr26 pilr16 pill16 pill26 piur26 piur16 piul16 piul26 (1)  .
var lab acidetch '(D) Number of acid etch composites' .

NUMERIC permrep (F2).
count permrep = pilr27 pilr17 pill17 pill27 piur27 piur17 piul17 piul27 (1)  .
var lab permrep '(D) Number of permanent replacements' .

NUMERIC temprep (F2).
count temprep = pilr28 pilr18 pill18 pill28 piur28 piur18 piul18 piul28 (1)  .
var lab temprep '(D) Number of temporary restorations' .

NUMERIC discolc (F2).
count discolc  = piur11 piul11  (1)  .
var lab discolc '(D) Number of discoloured upper central incisors' .

NUMERIC enamfc (F2).
count enamfc  = piur12 piul12  (1)  .
var lab enamfc '(D) Number of upper central incisors with enamel fractures' .

NUMERIC enamdfc (F2).
count enamdfc  = piur13 piul13  (1)  .
var lab enamdfc '(D) Number of upper central incisors with fractures to enamel and dentine' .

NUMERIC edpfc (F2).
count edpfc  = piur14 piul14  (1)  .
```

```
var lab edpfc '(D) Number of upper central incisors w fractures to enamel, dentine, pulp' .

NUMERIC imisstc (F2).
count imisstc  = piur15 piul15  (1)  .
var lab imisstc '(D) Number of upper central incisors missing due to trauma' .

NUMERIC acidc (F2).
count acidc  = piur16 piul16  (1)  .
var lab acidc '(D) Number of upper central incisors with acid etch composites' .

NUMERIC permrepc (F2).
count permrepc  = piur17 piul17  (1)  .
var lab permrepc '(D) Number of upper central incisors with permenent replacement' .

NUMERIC temprepc (F2).
count temprepc  = piur18 piul18  (1)  .
var lab temprepc '(D) Number of upper central incisors with temporary restorations' .

EXECUTE.

FRE idamage discol enamf enamdf edpf imisst acidetch permrep temprep discolc enamfc enamdfc edpfc imisstc acidc permrepc temprepc.

*-----.
NUMERIC alltraum (F2).
var lab alltraum '(D) trauma variable for analysis' .
val lab alltraum 0 'No damage' 1 'Some damage' .

compute alltraum = 0 .
if (imisst>0 | discol>0 |  enamdf>0 | edpf>0 | permrep>0) alltraum = 1 .
if any(14, tcur2, tcur1, tcul1, tcul2, tcll2, tcll1, tclr1, tclr2) alltraum = 1 .


*4.21.
NUMERIC traum15 (F2).
VARIABLE LABELS traum15 "(D) Any trauma indicator, 15 yos (excluding minor damage to enamel)".
VALUE LABELS traum15 0 "No trauma" 1 "Some trauma".

compute traum15 = 999 .
if age = 15 traum15 = 0 .
if discol>0 traum15 = 1 .
if enamdf>0 traum15 = 1 .
if edpf>0 traum15 = 1 .
if imisst>0 traum15 = 1 .
if permrep>0 traum15 = 1 .
if any(117, tcur2d, tcur1d, tcul1d, tcul2d, tcll2d, tcll1d, tclr1d, tclr2d) traum15 = 1 .

if age <>15 traum15 = -1 .
```

FRE traum15 .

```
missing values all() .

*not clear that we need to recode dtslur2b to dtslul2l.

compute dtslur2b = 999 .
do if urb2 = 1.
compute dtslur2b = -1 .
else if urb2 = 2.
recode tsur2bd (1 thru 3=1) (else = copy) into dtslur2b .
end if .

compute dtslur2l = 999 .
do if urb2 = 1.
compute dtslur2l = -1 .
else if urb2 = 2.
recode tsur2ld (1 thru 3=1) (else = copy) into dtslur2l .
end if .

compute dtslur1b = 999 .
do if ura1 = 1.
compute dtslur1b = -1 .
else if ura1 = 2.
recode tsur1bd (1 thru 3=1) (else = copy) into dtslur1b .
end if .

compute dtslur1l = 999 .
do if ura1 = 1.
compute dtslur1l = -1 .
else if ura1 = 2.
recode tsur1ld (1 thru 3=1) (else = copy) into dtslur1l .
end if .

compute dtslul1b = 999 .
do if ula1 = 1.
compute dtslul1b = -1 .
else if ula1 = 2.
recode tsul1bd (1 thru 3=1) (else = copy) into dtslul1b .
end if .

compute dtslul1l = 999 .
do if ula1 = 1.
compute dtslul1l = -1 .
else if ula1 = 2.
recode tsul1ld (1 thru 3=1) (else = copy) into dtslul1l .
```

```
end if .

compute dtslul2b = 999 .
do if ulb2 = 1.
compute dtslul2b = -1 .
else if ulb2 = 2.
recode tsul2bd (1 thru 3=1) (else = copy) into dtslul2b .
end if .

compute dtslul2l = 999 .
do if ulb2 = 1.
compute dtslul2l = -1 .
else if ulb2 = 2.
recode tsul2ld (1 thru 3=1) (else = copy) into dtslul2l .
end if .

var lab dtslur2b '(D) UR2 buccal decid: any tooth surface loss' .
var lab dtslur2l '(D) UR2 lingual decid: any tooth surface loss' .
var lab dtslur1b '(D) UR1 buccal decid: any tooth surface loss' .
var lab dtslur1l '(D) UR1 lingual decid: any tooth surface loss' .
var lab dtslul1b '(D) UL1 buccal decid: any tooth surface loss' .
var lab dtslul1l '(D) UL1 lingual decid: any tooth surface loss' .
var lab dtslul2b '(D) UL2 buccal decid: any tooth surface loss' .
var lab dtslul2l '(D) UL2 lingual decid: any tooth surface loss' .

*not clear that we need to recode ptslur2b to ptslul2l.

compute ptslur2b = 999 .
do if urb2 = 2.
compute ptslur2b = -1 .
else if urb2 = 1.
recode tsur2bd (1 thru 3=1) (else = copy) into ptslur2b .
end if .

compute ptslur2l = 999 .
do if urb2 = 2.
compute ptslur2l = -1 .
else if urb2 = 1.
recode tsur2ld (1 thru 3=1) (else = copy) into ptslur2l .
end if .

compute ptslur1b = 999 .
do if ura1 = 2.
compute ptslur1b = -1 .
else if ura1 = 1.
recode tsur1bd (1 thru 3=1) (else = copy) into ptslur1b .
end if .
```

```
compute ptslur1l = 999 .
do if ura1 = 2.
compute ptslur1l = -1 .
else if ura1 = 1.
recode tsur1ld (1 thru 3=1) (else = copy) into ptslur1l .
end if .

compute ptslul1b = 999 .
do if ula1 = 2.
compute ptslul1b = -1 .
else if ula1 = 1.
recode tsul1bd (1 thru 3=1) (else = copy) into ptslul1b .
end if .

compute ptslul1l = 999 .
do if ula1 = 2.
compute ptslul1l = -1 .
else if ula1 = 1.
recode tsul1ld (1 thru 3=1) (else = copy) into ptslul1l .
end if .

****corrected .
compute ptslul2b = 999 .
*do if ul2b = 2.
do if ulb2 = 2 .
compute ptslul2b = -1 .
*else if ul2b = 1.
else if ulb2 = 1 .
recode tsul2bd (1 thru 3=1) (else = copy) into ptslul2b .
end if .

compute ptslul2l = 999 .
do if ulb2 = 2.
compute ptslul2l = -1 .
else if ulb2 = 1.
recode tsul2ld (1 thru 3=1) (else = copy) into ptslul2l .
end if .

var lab ptslur2b '(D) UR2 buccal perm: any tooth surface loss' .
var lab ptslur2l '(D) UR2 lingual perm: any tooth surface loss' .
var lab ptslur1b '(D) UR1 buccal perm: any tooth surface loss' .
var lab ptslur1l '(D) UR1 lingual perm: any tooth surface loss' .
var lab ptslul1b '(D) UL1 buccal perm: any tooth surface loss' .
var lab ptslul1l '(D) UL1 lingual perm: any tooth surface loss' .
var lab ptslul2b '(D) UL2 buccal perm: any tooth surface loss' .
var lab ptslul2l '(D) UL2 lingual perm: any tooth surface loss' .
```

```
val lab dtslur2b to ptslul2l -9 'Not coded' -1 'Not applicable' 0 'No surface loss' 1 'Some surface loss'
  9 'Assessment could not be made' .

fre dtslur2b to ptslul2l .

*********************************************************************************************.

NUMERIC dtslbuc (F2).
VARIABLE LABELS dtslbuc '(D) Any TSL on deciduous incisors - buccal' .
COMPUTE dtslbuc = 0.
IF any(1, dtslur2b, dtslur1b, dtslul1b, dtslul2b) dtslbuc = 1.

NUMERIC dtsllin (F2).
VARIABLE LABELS dtsllin '(D) Any TSL on deciduous incisors - lingual' .
COMPUTE dtsllin = 0.
IF any(1, dtslur2l, dtslur1l, dtslul1l, dtslul2l) dtsllin = 1.

NUMERIC ptslbuc (F2).
VARIABLE LABELS ptslbuc '(D) Any TSL on permanent incisors - buccal' .
COMPUTE ptslbuc = 0.
if any (1, ptslur2b, ptslur1b, ptslul1b, ptslul2b) ptslbuc = 1.

NUMERIC ptsllin (F2).
VARIABLE LABELS ptsllin '(D) Any TSL on permanent incisors - lingual' .
COMPUTE ptsllin = 0.
IF any (1, ptslur2l, ptslur1l, ptslul1l, ptslul2l) ptsllin = 1.

VALUE LABELS dtslbuc to ptsllin 0 'No surface loss' 1 'Some surface loss'.
FRE dtslbuc to ptsllin .

fre dtslbuc to ptsllin .
*****************************************************************************************************.

*not clear that we need to recode dtslur2bd to dtslul2ld.

compute dtslur2bd = 999 .
do if urb2 = 1.
compute dtslur2bd = -1 .
else if urb2 = 2.
recode tsur2bd (1=0) (2 thru 3=1) (else = copy) into dtslur2bd .
end if .

compute dtslur2ld = 999 .
do if urb2 = 1.
compute dtslur2ld = -1 .
else if urb2 = 2.
```

```
recode tsur2ld (1 = 0) (2 thru 3=1) (else = copy) into dtslur2ld .
end if .

compute dtslur1bd = 999 .
do if ura1 = 1.
compute dtslur1bd = -1 .
else if ura1 = 2.
recode tsur1bd (1 = 0) ( 2 thru 3=1) (else = copy) into dtslur1bd .
end if .

compute dtslur1ld = 999 .
do if ura1 = 1.
compute dtslur1ld = -1 .
else if ura1 = 2.
recode tsur1ld (1 = 0) (2 thru 3=1) (else = copy) into dtslur1ld .
end if .

compute dtslul1bd = 999 .
do if ula1 = 1.
compute dtslul1bd = -1 .
else if ula1 = 2.
recode tsul1bd (1 = 0) (2 thru 3=1) (else = copy) into dtslul1bd .
end if .

compute dtslul1ld = 999 .
do if ula1 = 1.
compute dtslul1ld = -1 .
else if ula1 = 2.
recode tsul1ld (1 = 0) (2 thru 3=1) (else = copy) into dtslul1ld .
end if .

*corrected .
compute dtslul2bd = 999 .
do if ulb2 = 1.
compute dtslul2bd = -1 .
else if ulb2 = 2.
recode tsul2bd (1 = 0) (2 thru 3=1) (else = copy) into dtslul2bd .
end if .

compute dtslul2ld = 999 .
do if ulb2 = 1.
compute dtslul2ld = -1 .
else if ulb2 = 2.
recode tsul2ld (1 = 0) (2 thru 3=1) (else = copy) into dtslul2ld .
end if .

var lab dtslur2bd '(D) UR2 buccal decid: TSL into dentine' .
```

```
var lab dtslur2ld '(D) UR2 lingual decid: TSL into dentine' .
var lab dtslur1bd '(D) UR1 buccal decid: TSL into dentine' .
var lab dtslur1ld '(D) UR1 lingual decid: TSL into dentine' .
var lab dtslul1bd '(D) UL1 buccal decid: TSL into dentine' .
var lab dtslul1ld '(D) UL1 lingual decid: TSL into dentine' .
var lab dtslul2bd '(D) UL2 buccal decid: TSL into dentine' .
var lab dtslul2ld '(D) UL2 lingual decid: TSL into dentine' .

*not clear that we need to recode ptslur2bd to ptslul2ld.

compute ptslur2bd = 999 .
do if urb2 = 2.
compute ptslur2bd = -1 .
else if urb2 = 1.
recode tsur2bd (1 = 0) (2 thru 3=1) (else = copy) into ptslur2bd .
end if .

compute ptslur2ld = 999 .
do if urb2 = 2.
compute ptslur2ld = -1 .
else if urb2 = 1.
recode tsur2ld (1 = 0)  (2 thru 3=1) (else = copy) into ptslur2ld .
end if .

compute ptslur1bd = 999 .
do if ura1 = 2.
compute ptslur1bd = -1 .
else if ura1 = 1.
recode tsur1bd (1 = 0) (2 thru 3=1) (else = copy) into ptslur1bd .
end if .

compute ptslur1ld = 999 .
do if ura1 = 2.
compute ptslur1ld = -1 .
else if ura1 = 1.
recode tsur1ld (1 = 0) (2 thru 3=1) (else = copy) into ptslur1ld .
end if .

compute ptslul1bd = 999 .
do if ula1 = 2.
compute ptslul1bd = -1 .
else if ula1 = 1.
recode tsul1bd (1 = 0) (2 thru 3=1) (else = copy) into ptslul1bd .
end if .

compute ptslul1ld = 999 .
do if ula1 = 2.
```

```
compute ptslul1ld = -1 .
else if ula1 = 1.
recode tsul1ld (1 = 0) (2 thru 3=1) (else = copy) into ptslul1ld .
end if .

*correct.
compute ptslul2bd = 999 .
do if ulb2 = 2.
*do if ul2b = 2.
compute ptslul2bd = -1 .
else if ulb2 = 1.
*else if ul2b = 1.
recode tsul2bd (1 = 0) (2 thru 3=1) (else = copy) into ptslul2bd .
end if .

compute ptslul2ld = 999 .
do if ulb2 = 2.
compute ptslul2ld = -1 .
else if ulb2 = 1.
recode tsul2ld (1 = 0) (2 thru 3=1) (else = copy) into ptslul2ld .
end if .

var lab ptslur2bd '(D) UR2 buccal perm: TSL into dentine' .
var lab ptslur2ld '(D) UR2 lingual perm: TSL into dentine' .
var lab ptslur1bd '(D) UR1 buccal perm: TSL into dentine' .
var lab ptslur1ld '(D) UR1 lingual perm: TSL into dentine' .
var lab ptslul1bd '(D) UL1 buccal perm: TSL into dentine' .
var lab ptslul1ld '(D) UL1 lingual perm: TSL into dentine' .
var lab ptslul2bd '(D) UL2 buccal perm: TSL into dentine' .
var lab ptslul2ld '(D) UL2 lingual perm: TSL into dentine' .

val lab dtslur2bd to ptslul2ld -9 'Not coded' -1 'Not applicable' 0 'None/enamel only' 1 'Into dentine or pulp'
  9 'Assessment could not be made' .

fre dtslur2bd to ptslul2ld .

*checks .
tab/tab dtslur2bd by dtslur2b .
tab/tab dtslur1ld by dtslur1l .
tab/tab dtslul1bd by dtslul1b .
tab/tab dtslul2ld by dtslul2l .

**********.
NUMERIC dtslbucd (F2).
VARIABLE LABELS dtslbucd '(D) Any TSL into dentine or pulp on deciduous incisors - buccal' .
COMPUTE dtslbucd = 0.
IF any (1, dtslur2bd, dtslur1bd, dtslul1bd, dtslul2bd) dtslbucd = 1.
```

```
NUMERIC dtsllind (F2).
VARIABLE LABELS dtsllind '(D) Any TSL into dentine or pulp on deciduous incisors - lingual' .
compute dtsllind = 0.
if any (1, dtslur2ld, dtslur1ld, dtslul1ld, dtslul2ld) dtsllind = 1.

NUMERIC ptslbucd (F2).
VARIABLE LABELS ptslbucd '(D) Any TSL into dentine or pulp on permanent incisors - buccal' .
compute ptslbucd = 0.
if any (1, ptslur2bd, ptslur1bd, ptslul1bd, ptslul2bd) ptslbucd = 1.

NUMERIC ptsllind (F2).
VARIABLE LABELS ptsllind '(D) Any TSL into dentine or pulp on permanent incisors - lingual' .
compute ptsllind = 0.
if any (1, ptslur2ld, ptslur1ld, ptslul1ld, ptslul2ld) ptsllind = 1 .

VALUE LABELS dtslbucd to ptsllind 0 'None/enamel only' 1 'Into dentine or pulp'.

fre dtslbucd to ptsllind .


**********************************************************************************************************.
compute tslur6 = 0 .
recode tsur6od (1 thru 3=1) into tslur6 .

compute tslul6 = 0 .
recode tsul6od (1 thru 3=1) into tslul6 .

compute tsllr6 = 0 .
recode tslr6od (1 thru 3=1) into tsllr6 .

compute tslll6 = 0 .
recode tsll6od (1 thru 3=1) into tslll6 .

VARIABLE LABELS tslur6 '(D) UR6 any tooth surface loss' .
VARIABLE LABELS tslul6 '(D) UL6 any tooth surface loss' .
VARIABLE LABELS tsllr6 '(D) LR6 any tooth surface loss' .
VARIABLE LABELS tslll6 '(D) LL6 any tooth surface loss' .

VALUE LABELS tslur6 to tslll6 0 "No" 1 "Yes".


fre tslur6 to tslll6 .

**************************************************************************************.

*-----.
```

```
NUMERIC tslur6d (F2).
VARIABLE LABELS tslur6d '(D) UR6 tooth surface loss into dentine or pulp' .
COMPUTE tslur6d = 0 .
IF any(tsur6od, 2, 3) tslur6d = 1.

NUMERIC tsllr6d (F2).
VARIABLE LABELS tsllr6d '(D) UL6 tooth surface loss into dentine or pulp' .
COMPUTE tsllr6d = 0 .
IF any(tslr6od, 2, 3) tsllr6d = 1.

NUMERIC tslul6d (F2).
VARIABLE LABELS tslul6d '(D) UL6 tooth surface loss into dentine or pulp' .
COMPUTE tslul6d = 0 .
IF any(tsul6od, 2, 3) tslul6d = 1.

NUMERIC tslll6d (F2).
VARIABLE LABELS tslll6d '(D) LL6 tooth surface loss into dentine or pulp' .
compute tslll6d = 0 .
IF any(tsll6od, 2, 3) tslll6d = 1.

VALUE LABELS tslur6d TO  tslll6d 0 'None/enamel only' 1 'Into dentine or pulp'.


*-----.
NUMERIC tslmol (F2).
VARIABLE LABELS tslmol '(D) Any tooth surface loss in molars' .
VALUE LABELS tslmol 0 'No surface loss' 1 'Some surface loss'.
COMPUTE tslmol = 0.
IF any(1, tslur6, tslul6, tsllr6, tslll6) tslmol = 1 .

NUMERIC tslmold (F2).
VARIABLE LABELS tslmold '(D) Any tooth surface loss into dentine or pulp in molars' .
VALUE LABELS tslmold 0 'None/enamel only' 1 'Into dentine or pulp'.
COMPUTE tslmold = 0.
IF any(1, tslur6d, tslul6d, tsllr6d, tslll6d) tslmold = 1.


fre tslmold .

tab / tab tslmol by tslmold .



*-----.

COMPUTE dtslur2d = 0 .
IF any(1, dtslur2bd, dtslur2ld)  dtslur2d = 1 .
```

```
COMPUTE dtslur1d = 0 .
IF any(1, dtslur1bd, dtslur1ld)  dtslur1d = 1 .

COMPUTE dtslul1d = 0 .
IF any(1, dtslul1bd, dtslul1ld)  dtslul1d = 1 .

COMPUTE dtslul2d = 0 .
IF any(1, dtslul2bd, dtslul2ld)  dtslul2d = 1 .

COMPUTE ptslur2d = 0 .
IF any(1, ptslur2bd, ptslur2ld)  ptslur2d = 1 .

COMPUTE ptslur1d = 0 .
IF any(1, ptslur1bd, ptslur1ld)  ptslur1d = 1 .

COMPUTE ptslul1d = 0 .
IF any(1, ptslul1bd, ptslul1ld)  ptslul1d = 1 .

COMPUTE ptslul2d = 0 .
IF any(1, ptslul2bd, ptslul2ld)  ptslul2d = 1 .

NUMERIC tslinc2 tslmol4 tslbad (F2).

VARIABLE LABELS tslinc2 '(D) Tooth surface loss into dentine in 2+ incisors' .
VARIABLE LABELS tslmol4 '(D) Tooth surface loss into dentine in 4+ incisors or molars' .
VARIABLE LABELS tslbad '(D) TSL into dentine in either 2+ incisors or 4+ teeth' .

VALUE LABELS  tslinc2 tslmol4 tslbad
      0 "No"
      1 "Yes".

COUNT tslinc2 = dtslur2d to ptslul2d (1) .
COUNT tslmol4 =  tslur6d to tslll6d dtslur2d to ptslul2d (1) .

RECODE tslinc2 (0 thru 1 = 0) (2 thru hi = 1) .
RECODE tslmol4 (0 thru 3 = 0) (4 thru hi = 1) .

fre tslinc2 tslmol4 .

COMPUTE tslbad = tslinc2 .
if tslmol4 = 1 tslbad = 1.

FRE tslinc2 tslmol4 tslbad.
```

```
NUMERIC anydtsl (F2).
VARIABLE LABELS anydtsl '(D) Any tooth surface loss on primary incisors'.
VALUE LABELS anydtsl 0 'No' 1 'Yes'.
compute anydtsl = 0 .
if dtslbuc = 1 anydtsl = 1.
if dtsllin = 1 anydtsl = 1 .

NUMERIC anydtsld (F2).
VARIABLE LABELS anydtsld '(D) Any tooth surface loss into dentine on primary incisors'.
VALUE LABELS anydtsld 0 'No' 1 'Yes'.
compute anydtsld = 0 .
if dtslbucd = 1 anydtsld = 1 .
if dtsllind = 1 anydtsld = 1 .

NUMERIC anyptsl (F2).
VARIABLE LABELS anyptsl '(D) Any tooth surface loss on permanent incisors and/or molars'.
VALUE LABELS anyptsl 0 'No' 1 'Yes'.
compute anyptsl = 0 .
if ptslbuc = 1 anyptsl = 1 .
if ptsllin = 1 anyptsl = 1 .
if tslmol = 1 anyptsl = 1 .

NUMERIC anyptsld (F2).
VARIABLE LABELS anyptsld '(D) Any tooth surface loss into dentine on permanent incisors and/or permanent molars'.
VALUE LABELS anyptsld 0 'No' 1 'Yes'.
compute anyptsld = 0 .
if ptslbucd = 1 anyptsld = 1 .
if ptsllind = 1 anyptsld = 1 .
if tslmold = 1 anyptsld = 1 .

NUMERIC anytsl (F2).
VARIABLE LABELS anytsl '(D) Any tooth surface loss: primary incisors / permanent incisors / permanent molars' .
VALUE LABELS anytsl 0 'No' 1 'Yes'.
compute anytsl = anydtsl .
if anyptsl = 1 anytsl = 1 .

NUMERIC anytsld (F2).
VARIABLE LABELS anytsld '(D) Any tooth surface loss into dentine: primary incisors / permanent incisors / permanent molars' .
VALUE LABELS anytsld 0 'No' 1 'Yes'.
compute anytsld = anydtsld .
if anyptsld = 1 anytsld = 1 .

*4.22 - 4.26.
*dectsl5.
```

```
*dectsl5.
NUMERIC dectsl5 (F2).
VARIABLE LABELS dectsl5 "(D) Aged 5 - number of primary central incisors with tsl into dentine".
VALUE LABELS dectsl5    -1 'Not aged 5'.

compute dtslur2d = 0 .
if any(1, dtslur2bd, dtslur2ld)  dtslur2d = 1 .

compute dtslur1d = 0 .
if any(1, dtslur1bd, dtslur1ld)  dtslur1d = 1 .

compute dtslul1d = 0 .
if any(1, dtslul1bd, dtslul1ld)  dtslul1d = 1 .

compute dtslul2d = 0 .
if any(1, dtslul2bd, dtslul2ld)  dtslul2d = 1 .

VARIABLE LABELS dtslur2d "(D) UR2 primary incisor with tsl into dentine".
VARIABLE LABELS dtslur1d "(D) UR1 primary incisor with tsl into dentine".
VARIABLE LABELS dtslul1d "(D) UL1 primary incisor with tsl into dentine".
VARIABLE LABELS dtslul2d "(D) UL2 primary incisor with tsl into dentine".

VALUE LABELS dtslur2d TO dtslul2d 0 'No' 1 'Yes'.

count dectsl5 = dtslur2d dtslur1d dtslul1d dtslul2d (1) .
if age<>5 dectsl5 = -1 .
FRE dectsl5.

compute ptslur2d = 0 .
if any(1, ptslur2bd, ptslur2ld)  ptslur2d = 1 .

compute ptslur1d = 0 .
if any(1, ptslur1bd, ptslur1ld)  ptslur1d = 1 .

compute ptslul1d = 0 .
if any(1, ptslul1bd, ptslul1ld)  ptslul1d = 1 .

compute ptslul2d = 0 .
if any(1, ptslul2bd, ptslul2ld)  ptslul2d = 1 .

VARIABLE LABELS ptslur2d "(D) UR2 permanent incisor with tsl into dentine".
VARIABLE LABELS ptslur1d "(D) UR1 permanent incisor with tsl into dentine".
VARIABLE LABELS ptslul1d "(D) UL1 permanent incisor with tsl into dentine".
VARIABLE LABELS ptslul2d "(D) UL2 permanent incisor with tsl into dentine".

VALUE LABELS ptslur2d TO ptslul2d 0 'No' 1 'Yes'.
```

EXECUTE.

```
missing values all() .

***new DVs .

compute bpeclear = 999 .
do if age< 15 .
recode bpeclear (999 = -1) .
else if bpeur6 = 0 & bpeur1 = 0 & bpeul6 = 0 & bpelr6 = 0 & bpell1 = 0 & bpell6 = 0 .
recode bpeclear (999 = 1) .
else if any(1, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) | any(2, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 )
  | any(3, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) | any(4, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpeclear (999 = 0) .
else if any(9, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpeclear (999 = 9) .
else if any(-9, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpeclear (999 = -9) .
end if .

compute bpepckt = 999 .
do if age< 15 .
recode bpepckt (999 = -1) .
else if any(3, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) |
  any(4, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpepckt (999 = 1) .
else if bpeur6 <3 & bpeur1 <3 & bpeul6 <3 & bpelr6 <3 & bpell1 <3 & bpell6 <3 .
recode bpepckt (999 = 0) .
else if any(9, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpepckt (999 = 9) .
else if any(-9, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpepckt (999 = -9) .
end if .

compute bpedpckt = 999 .
do if age< 15 .
recode bpedpckt (999 = -1) .
else if any(4, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpedpckt (999 = 1) .
else if bpeur6 <4 & bpeur1 <4 & bpeul6 <4 & bpelr6 <4 & bpell1 <4 & bpell6 <4 .
recode bpedpckt (999 = 0) .
else if any(9, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpedpckt (999 = 9) .
else if any(-9, bpeur6, bpeur1, bpeul6, bpelr6, bpell1, bpell6 ) .
recode bpedpckt (999 = -9) .
end if .
var lab bpeclear '(D) BPE no bleeding or pockets' .
var lab bpepckt '(D) BPE presence of pocket' .
```

```
var lab bpedpckt '(D) BPE presence of deep pocket' .
val lab bpeclear to bpedpckt -9 'Not coded' -1 'Not applicable' 0 'No' 1 'Yes'  9 'One or more could not be assessed' .

fre bpeclear bpepckt  bpedpckt  .

compute bleed = 999 .
do if age< 15 .
recode bleed (999 = -1) .
else if blur6 = 0 & blur1 = 0 & blul6 = 0 & bllr6 = 0 & blll1 = 0 & blll6 = 0 .
recode bleed (999 = 0) .
else if any(1, blur6, blur1, blul6, bllr6, blll1, blll6 )  .
recode bleed (999 = 1) .
else if any(9, blur6, blur1, blul6, bllr6, blll1, blll6 ) .
recode bleed (999 = 9) .
else if any(-9, blur6, blur1, blul6, bllr6, blll1, blll6 ) .
recode bleed (999 = -9) .
end if .

var lab bleed '(D) Any bleeding' .
val lab bleed -9 'Not coded' -1 'Not applicable' 0 'No' 1 'Yes'  9 'One or more could not be assessed' .

fre bleed .


*Bleed03 for trend analysis with missing data and not able to assess coded to no presence of bleeding.

If (age < 15) bleed03=bleed.
If (age = 15 and bleed <= 0) bleed03 = 0.
If (age = 15 and bleed = 9) bleed03 = 0.
If (age = 15 and bleed = 1) bleed03=1.
exe.
Var label bleed03 "(D) Any bleeding for trend (with missing and not able to assess coded to no bleeding)".
Val labels bleed03
-9 'Not coded'
-1 'Not applicable'
0 'No'
1 'Yes'.
fre bleed03.
```

```
missing values all() .


*severe or extensive dental decay aged 5.
NUMERIC totpoor5 (F2).
VARIABLE LABELS totpoor5 '(D) Any indicators of poor oral health/severe or extensive dental decay aged 5' .
VALUE LABELS totpoor5 -1 "N/A" 0 "No" 1 "Yes".

COMPUTE totpoor5 = 0 .
IF decdcy3>4 totpoor5 = 1 .
IF numddec>2 totpoor5 = 1 .
IF decunrany=1  totpoor5 = 1 .
IF pufaany = 1  totpoor5 = 1 .
IF age<>5 totpoor5 = -1 .

*severe or extensive dental decay aged 15.
NUMERIC totpoor15 (F2).
VARIABLE LABELS totpoor15 '(D) Any indicators of poor oral health/severe or extensive dental decay aged 15' .
VALUE LABELS totpoor15 -1 "N/A" 0 "No" 1 "Yes".

COMPUTE totpoor15 = 0 .
IF permdcy3>4 totpoor15 = 1 .
IF numpdec>2 totpoor15 = 1 .
IF misdecay>0 totpoor15 = 1 .
IF perunrany=1  totpoor15 = 1 .
IF pufaany = 1  totpoor15 = 1 .
IF age<>15 totpoor15 = -1.


NUMERIC goodperio (F2).
var lab goodperio '(D) Good periodontal health' .
val lab goodperio -9 'Not coded' 1 'Yes - good perio health' 2 'No - one or more perio conditions' .

compute goodperio=calculus13 .
if gingivae13 = 1 goodperio=1 .
if plaque2 = 1 goodperio = 1 .

recode goodperio (1=2) (2=1) (else=copy) .
EXECUTE.


NUMERIC goodall  (F2).
VARIABLE LABELS goodall "(D) Good overall oral health".
VALUE LABELS goodall 0 "No" 1 "Yes".

compute goodall = 1 .
```

```
if adcyany2 = 1 goodall = 0 .
if calculus13 = 1 goodall = 0 .
if anytsld = 1 goodall = 0 .
EXECUTE.
```

```
*Pupil questionnaire derived variables.


*ppdenhlth - Grouped self rated dental health.
FRE pupq1.

NUMERIC ppdenhlth (F2).
VARIABLE LABELS ppdenhlth "(D) Self-rated dental health grouped".
VALUE LABELS ppdenhlth
1 "Good or very good"
2 "Fair or worse"
-2 "Not applicable ineligible dob"
-3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year old"
-8 "Don't Know"
-9 "Not Answered".

RECODE pupq1 (-9 thru -1 = COPY) (1, 2 = 1) (3, 4, 5 = 2) INTO ppdenhlth.

FREQUENCIES ppdenhlth.
CROSSTABS PUPQ1 BY ppdenhlth.

*-----.
*Grouped self rated general health.
FRE pupq2.

NUMERIC ppGenhlth (F2).
VARIABLE LABELS ppGenhlth "(D) Self-rated general health grouped".
VALUE LABELS ppGenhlth
1 "Good or very good"
2 "Fair or worse"
-2 "Not applicable ineligible dob"
-3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year old"
-8 "Don't Know"
-9 "Not Answered".

RECODE pupq2 (-9 thru -1 = COPY) (1, 2 = 1) (3, 4, 5 = 2) INTO ppGenhlth.

***q3 DVs to account for non response .
recode pupq3ach (-9=0) (2=0) (else=copy) into ppache.
recode pupq3sen (-9=0) (2=0) (else=copy) into ppsens .
recode pupq3gum (-9=0) (2=0) (else=copy) into ppgums.
recode pupq3brk (-9=0) (2=0) (else=copy) into ppbrok .
recode pupq3ulc (-9=0) (2=0) (else=copy) into ppulcer.
```

```
recode pupq3bad (-9=0) (2=0) (else=copy) into ppbreath.

var lab ppache '(D) Toothache in the last 3 months' .
var lab ppsens '(D) Sensitive tooth in the last 3 months' .
var lab ppgums '(D) Bleeding or swollen gums in the last 3 months' .
var lab ppbrok '(D) Broken tooth in the last 3 months' .
var lab ppulcer '(D) Mouth ulcers in the last 3 months' .
var lab ppbreath  '(D) Bad breath in the last 3 months' .
val lab ppache to ppbreath -8 "Don't know" 0 'Not mentioned' 1 'Mentioned'  .

tab/tab pupq3ach by ppache .
tab/tab pupq3sen by ppsens .
tab/tab pupq3gum by ppgums .
tab/tab pupq3brk by ppbrok .
tab/tab pupq3ulc by ppulcer .
tab/tab pupq3bad by ppbreath .

****any problems .
compute ppanycon=999 .
if any(1, ppache, ppsens, ppgums, ppbrok, ppulcer, ppbreath) ppanycon=1 .
if (ppache=0) & (ppsens=0) & (ppgums=0) & (ppbrok=0) & (ppulcer=0) & (ppbreath=0) ppanycon=2 .

*temp.
*select if ppanycon=999 .
*list serial pupq3ach to pupq3bad .

*all have at least one -8 .
if ppanycon=999 ppanycon=-8 .

var lab ppanycon '(D) Any condition in the last 3 months' .
val lab ppanycon -8 "Don't know" 1 'One or more conditions' 2 'No conditions' .

tab/tab ppanycon by ppache .
tab/tab ppanycon by ppsens .
tab/tab ppanycon by ppgums .
tab/tab ppanycon by ppbrok .
tab/tab ppanycon by ppulcer .
tab/tab ppanycon by ppbreath .

fre ppache to ppanycon .

**********************************************************************************************************.

recode pupq4 ( 1 thru 2 = 1) (3 = 2) (4 thru 5 = 3) (else = copy) into ppsatth .
var lab ppsatth '(D) Satisfied with appearance of teeth' .
add val lab ppsatth -9 'Not answered' -8 "Don't know"
  1 'Satisfied' 2 'Neither satisfied nor dissatisfied' 3 'Dissatisfied' .
```

```
tab/ tab pupq4 by ppsatth .

**********************************************************************************************************.

recode pupq6 (1=1) (2 thru 4=2) (else = copy) into ppdiffeat .
recode pupq7 (1=1) (2 thru 4=2) (else = copy) into ppdiffspk .
recode pupq8 (1=1) (2 thru 4=2) (else = copy) into ppdiffcln .
recode pupq9 (1=1) (2 thru 4=2) (else = copy) into ppdiffrel .
recode pupq10 (1=1) (2 thru 4=2) (else = copy) into ppdiffeel .
recode pupq11 (1=1) (2 thru 4=2) (else = copy) into ppdiffsml .
recode pupq12 (1=1) (2 thru 4=2) (else = copy) into ppdiffwrk .
recode pupq13 (1=1) (2 thru 4=2) (else = copy) into ppdiffenj  .

var lab ppdiffeat '(D) Difficulty eating in last 3 months because of problems with teeth or mouth - grouped' .
var lab ppdiffspk '(D) Difficulty speaking clearly in last 3 months because of problems with teeth or mouth - grouped' .
var lab ppdiffcln '(D) Difficulty cleaning teeth in last 3 months because of problems with teeth or mouth - grouped' .
var lab ppdiffrel '(D) Difficulty relaxing in last 3 months because of problems with teeth or mouth - grouped' .
var lab ppdiffeel '(D) Felt different in last 3 months because of problems with teeth or mouth - grouped' .
var lab ppdiffsml '(D) Embarrassed smiling or laughing in last 3 months because of problems with teeth or mouth - grouped' .
var lab ppdiffwrk '(D) Difficulty doing schoolwork in last 3 months because of problems with teeth or mouth - grouped' .
var lab ppdiffenj '(D) Difficulty enoying being with people in last 3 months because of problems with teeth or mouth - grouped' .

val lab ppdiffeat to ppdiffenj -9 'Not answered' -8 "Don't know" 1 'No difficulty' 2 'Some difficulty' .

tab/tab pupq6 by ppdiffeat .
tab/tab pupq7 by ppdiffspk .
tab/tab pupq8 by ppdiffcln .
tab/tab pupq9 by ppdiffrel .
tab/tab pupq10 by ppdiffeel .
tab/tab pupq11 by ppdiffsml .
tab/tab pupq12 by ppdiffwrk .
tab/tab pupq13 by ppdiffenj .

compute ppanydiff=999 .
if any(2, ppdiffeat, ppdiffspk, ppdiffcln, ppdiffrel, ppdiffeel, ppdiffsml, ppdiffwrk, ppdiffenj) ppanydiff=2 .
if (ppdiffeat=1) & (ppdiffspk=1) & (ppdiffcln=1) & (ppdiffrel=1) & (ppdiffeel=1) & (ppdiffsml=1)
  & (ppdiffwrk=1) & (ppdiffenj=1) ppanydiff=1 .

*temp.
*select if ppanydiff=999 .
*list serial pupq6 to pupq13 .

*tow - they have at least one -9 .
if ppanydiff=999 ppanydiff=-9 .

var lab ppanydiff '(D) Any difficulty in last 3 months because of problems with teeth or mouth' .
```

```
val lab ppanydiff -9 'Not answered' 1 'No difficulty' 2 'Some difficulty' .

tab/tab ppanydiff by ppdiffeat .
tab/tab ppanydiff by ppdiffspk .
tab/tab ppanydiff by ppdiffcln .
tab/tab ppanydiff by ppdiffrel .
tab/tab ppanydiff by ppdiffeel .
tab/tab ppanydiff by ppdiffsml .
tab/tab ppanydiff by ppdiffwrk .
tab/tab ppanydiff by ppdiffenj .

recode pupq6 (1=0) (2=1) (3=2) (4=3) (else = copy) .
recode pupq7 (1=0) (2=1) (3=2) (4=3) (else = copy) .
recode pupq8 (1=0) (2=1) (3=2) (4=3) (else = copy) .
recode pupq9 (1=0) (2=1) (3=2) (4=3) (else = copy) .
recode pupq10 (1=0) (2=1) (3=2) (4=3) (else = copy) .
recode pupq11 (1=0) (2=1) (3=2) (4=3) (else = copy) .
recode pupq12 (1=0) (2=1) (3=2) (4=3) (else = copy) .
recode pupq13 (1=0) (2=1) (3=2) (4=3) (else = copy) .

val lab pupq6 to pupq13 -9 'Not answered' -8 "Don't know" 0 'Not at all' 1 'A little'
  2 'A fair amount' 3 'A lot'.



*-----.
NUMERIC ppdiffmany (F2).

VARIABLE LABELS ppdiffmany "(D) Number of difficulties experienced due to oral health in the last 3 months".
VALUE LABELS ppdiffmany
      -9 "Not answered"
      -8 "Don't know"
      -4 "Unproductive at questionnaire"
      -1 "Not applicable 5 or 8 year old".

COMPUTE ppdiffmany = -42.
COUNT ppdiffmany = PupQ6 TO PupQ13 (1, 2, 3).
IF any(-9, PupQ6 TO PupQ13) ppdiffmany = -9.
IF any(-8, PupQ6 TO PupQ13) ppdiffmany = -8.
IF any(-4, PupQ6 TO PupQ13) ppdiffmany = -4.
IF any(-1, PupQ6 TO PupQ13) ppdiffmany = -1.


**********************************************************************************************************************.

recode pupq14 (1=1) (2 thru 5=2) (else = copy) into ppaffect .
var lab ppaffect '(D) Everyday life in last 3 months affected because of problems with teeth or mouth - grouped' .
```

```
val lab ppaffect  -9 'Not answered' -8 "Don't know" 1 'Not affect' 2 'Affected' .

tab/tab pupq14 by ppaffect .
*****************************************************************************************************************************.

FRE pupq15.

recode pupq15 (1 thru 3 = 1) (4 thru 6 = 2) (else=copy)  into ppbrush .
var lab ppbrush '(D) Frequency of brushing teeth - grouped' .
val lab ppbrush -9 'Not answered' -8 "Don't know" 1 'Twice a day or more' 2 'Once a day or less' .

tab/tab pupq15 by ppbrush .

*****************************************************************************************************************************.

fre pupq16.

NUMERIC ppdenatt (F2).
*Formerly called pupq16alt.
Var label ppdenatt  "(D) Self reported dental attendance trouble/never grouped".
Val labels ppdenatt  -9 "Not answered" -8 "Don't know" 1 "Check up" 2 "Only when in trouble/never".
Do if (pupq16=1).
  compute ppdenatt  = 1.
end if.
do if (pupq16 = 2 or pupq16 = 3).
 compute ppdenatt =2.
end if.
do if pupq16 < 0.
  compute ppdenatt =pupq16.
end if.
EXECUTE.

*-----.
recode pupq17a (1=1) (2 thru 3=2) (4 thru 5=3) (else =copy) into pptrtanx .
recode pupq17b (1=1) (2 thru 3=2) (4 thru 5=3) (else =copy) into ppwaitanx .
recode pupq17c (1=1) (2 thru 3=2) (4 thru 5=3) (else =copy) into ppdrlanx .
recode pupq17d (1=1) (2 thru 3=2) (4 thru 5=3) (else =copy) into ppsclanx .
recode pupq17e (1=1) (2 thru 3=2) (4 thru 5=3) (else =copy) into ppinjanx .

var lab pptrtanx       '(D) How anxious if went to dentist tomorrow - grouped' .
var lab ppwaitanx '(D) How anxious if waiting for treatment - grouped' .
var lab ppdrlanx '(D) How anxious if about to have tooth drilled - grouped' .
var lab ppsclanx        '(D) How anxious if about to have teeth scaled and polished - grouped' .
var lab ppinjanx '(D) How anxious if about to have local anaesthetic injection - grouped' .
val lab pptrtanx to ppinjanx -9 'Not answered' -8 "Don't know"
 1 'Not anxious' 2 'Slightly/fairly anxious' 3 'Very/extremely anxious' .
```

```
tab/tab pupq17a by pptrtanx .
tab/tab pupq17b by ppwaitanx .
tab/tab pupq17c by ppdrlanx .
tab/tab pupq17d by ppsclanx .
tab/tab pupq17e by ppinjanx .

compute ppanxscore= (pupq17a+pupq17b+pupq17c+pupq17d+pupq17e) .
if any(-8, pupq17a, pupq17b, pupq17c, pupq17d, pupq17e) ppanxscore = -8 .
if any(-9, pupq17a, pupq17b, pupq17c, pupq17d, pupq17e) ppanxscore = -9 .

var lab ppanxscore '(D) Anxiety score' .
val lab ppanxscore -9 'Not answered' -8 "Don't know"  .

fre pupq17a to pupq17e pptrtanx to ppanxscore .

*-----.
*ppmdasbrk - Self-Rated Dental anxiety score MDAS grouping".
FRE ppanxscore.

NUMERIC ppmdasbrk (F2).
VARIABLE LABELS ppmdasbrk "(D) Self-Rated Dental anxiety score MDAS grouping".
VALUE LABELS ppmdasbrk
1 "Low/no anxiety"
2 "Moderate anxiety"
3 "Extreme anxiety"
-2 "Not applicable ineligible dob"
-3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year old"
-8 "Don't Know"
-9 "Not Answered".

RECODE ppanxscore (-9 thru -1 = COPY) (5 thru 9 = 1) (10 thru 18 = 2) (19 thru hi = 3) INTO ppmdasbrk.

**********************************************************************************************************.
fre pupq18frt to pupq18swe .

compute ppsugfd = 0 .
if pupq18frt = 1 ppsugfd=ppsugfd+4 .
if pupq18frt = 2 ppsugfd=ppsugfd+3 .
if pupq18frt = 3 ppsugfd=ppsugfd+2 .
if pupq18frt = 4 ppsugfd=ppsugfd+1 .
if pupq18cak = 1 ppsugfd=ppsugfd+4 .
if pupq18cak = 2 ppsugfd=ppsugfd+3 .
if pupq18cak = 3 ppsugfd=ppsugfd+2 .
if pupq18cak = 4 ppsugfd=ppsugfd+1 .
if pupq18swe = 1 ppsugfd=ppsugfd+4 .
```

```
if pupq18swe = 2 ppsugfd=ppsugfd+3 .
if pupq18swe = 3 ppsugfd=ppsugfd+2 .
if pupq18swe = 4 ppsugfd=ppsugfd+1 .
if any(-8, pupq18frt, pupq18cak, pupq18swe) ppsugfd=-8 .
if any(-9, pupq18frt, pupq18cak, pupq18swe) ppsugfd=-9 .

var lab ppsugfd '(D) Number of times eats sugary food in a day' .
val lab ppsugfd -9 'Not answered' -8 "Don't know"  .

recode ppsugfd (0 thru 3=2) (4 thru hi=1) (else=copy) into ppsugfd4 .
var lab ppsugfd4 '(D) Eats sugary food four or more times in a day' .
val lab ppsugfd4 -9 'Not answered' -8 "Don't know" 1 'Four or more times a day' 2 'Less than four times a day'.

tab/tab ppsugfd  by ppsugfd4 .

*************************************************************************************************************.
rename var (pupq18die = pupq19die) .
rename var (pupq18sug = pupq19pop) .
rename var (pupq18ene = pupq19ene) .
rename var (pupq18wat = pupq19wat) .

fre pupq19die to pupq19fru .

compute ppsugdrnk = 0 .
if pupq19pop = 1 ppsugdrnk=ppsugdrnk+4 .
if pupq19pop = 2 ppsugdrnk=ppsugdrnk+3 .
if pupq19pop = 3 ppsugdrnk=ppsugdrnk+2 .
if pupq19pop = 4 ppsugdrnk=ppsugdrnk+1 .
if pupq19ene = 1 ppsugdrnk=ppsugdrnk+4 .
if pupq19ene = 2 ppsugdrnk=ppsugdrnk+3 .
if pupq19ene = 3 ppsugdrnk=ppsugdrnk+2 .
if pupq19ene = 4 ppsugdrnk=ppsugdrnk+1 .
if pupq19fru = 1 ppsugdrnk=ppsugdrnk+4 .
if pupq19fru = 2 ppsugdrnk=ppsugdrnk+3 .
if pupq19fru = 3 ppsugdrnk=ppsugdrnk+2 .
if pupq19fru = 4 ppsugdrnk=ppsugdrnk+1 .
if any(-8, pupq19pop, pupq19ene, pupq19fru) ppsugdrnk=-8 .
if any(-9, pupq19pop, pupq19ene, pupq19fru) ppsugdrnk=-9 .

var lab ppsugdrnk '(D) Number of times has sugary drinks in a day' .
val lab ppsugdrnk -9 'Not answered' -8 "Don't know"  .

recode ppsugdrnk (0 thru 3=2) (4 thru hi=1) (else=copy) into ppsugdk4 .
var lab ppsugdk4 '(D) Has sugary drinks four or more times in a day' .
val lab ppsugdk4 -9 'Not answered' -8 "Don't know" 1 'Four or more times a day' 2 'Less than four times a day'.

tab/tab ppsugdrnk by ppsugdk4.
```

```
*-----.
*Recreate sugary food DVs excluding fruit.
FRE pupq18cak pupq18swe.

*ppsugfdv2.
NUMERIC ppsugfdv2 (F2).
VARIABLE LABELS ppsugfdv2 "(D) Number of times eats sweets, biscuits and cakes in a day".
VALUE LABELS ppsugfdv2 -1 "Not applicable 5 or 8 years old" -4 "Unproductive at questionnaire" -9 "Not answered" -8 "Don't know"  .

RECODE pupq18cak pupq18swe (-9 thru -1 = COPY) (1 = 4) (2= 3) (3 = 2) (4 = 1) (5, 6, = 0) INTO pupq18cakREV pupq18sweREV.
DO IF range(pupq18cakREV, 0, 4) and range(pupq18sweREV, 0, 4).
COMPUTE ppsugfdv2 = pupq18cakREV + pupq18sweREV.
END IF.
IF range(pupq18cak, -9, -1) ppsugfdv2 = pupq18cak.
IF range(pupq18swe, -9, -1) ppsugfdv2 = pupq18swe.
FRE ppsugfdv2.

CROSSTABS pupq18cak BY ppsugfdv2 BY pupq18swe.

DELETE VARIABLES pupq18cakREV pupq18sweREV.

*ppsugfd4v2.
NUMERIC ppsugfd4v2 (F2).
var lab ppsugfd4v2 "(D) Eats sweets, biscuits and cakes four or more times in a day" .
val lab ppsugfd4v2
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year olds"
1 "Four or more times a day"
2 "Less than four times a day".

recode ppsugfdv2 (0 thru 3=2) (4 thru hi=1) (else=copy) into ppsugfd4v2 .
FREQUENCIES ppsugfd4v2.

CROSSTABS ppsugfdv2 BY ppsugfd4v2.

*-----.
*Sugar 4 times a day.
FRE ppsugdrnk ppsugfdv2.

NUMERIC ppsgrday (F2).
var lab ppsgrday "(D) Number of times eats sugary food or drink in a day".
val lab ppsgrday
-9 "Not answered"
```

```
-8 "Don't know"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year olds".

COMPUTE ppsgrday = -42.
DO IF ppsugdrnk GE 0 AND ppsugfdv2 GE 0.
COMPUTE ppsgrday = ppsugdrnk + ppsugfdv2.
END IF.
IF range(ppsugdrnk, -9, -1) ppsgrday = ppsugdrnk.
IF range(ppsugfdv2, -9, -1) ppsgrday = ppsugfdv2.
FREQUENCIES ppsgrday.

NUMERIC ppsugfddrk (F2).
var lab ppsugfddrk "(D) Eats sugary food and drink four or more times in a day" .
val lab ppsugfddrk
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year olds"
1 "Four or more times a day"
2 "Less than four times a day".

recode ppsgrday (0 thru 3=2) (4 thru hi=1) (else=copy) into ppsugfddrk .
FREQUENCIES ppsugfddrk.

*-----.
*Drinks - sugary, sports, water, juice.
FRE pupq19wat pupq19fru pupq19pop pupq19ene.

NUMERIC pppop ppenergy ppfizzy ppwater ppjuice (F2).

VARIABLE LABELS pppop '(D) Daily consumption of soft drinks that contain sugar' .
VARIABLE LABELS ppenergy '(D) Daily consumption of energy/sports drinks' .
VARIABLE LABELS ppfizzy '(D) Daily consumption of soft drinks that contain sugar and energy/sports drinks' .
VARIABLE LABELS ppwater '(D) Daily consumption of water' .
VARIABLE LABELS ppjuice '(D) Daily consumption of fruit juice/smoothies' .

VALUE LABELS pppop to ppjuice  0 'None' 1 'Once' 2 'Twice' 3 'Three times' 4 'Four or more times a day' .

RECODE pupq19wat (1 = 4) (2 = 3) (3 = 2) (4 = 1) (5 thru hi = 0) (else = copy) into ppwater .
RECODE pupq19fru (1 = 4) (2 = 3) (3 = 2) (4 = 1) (5 thru hi = 0) (else = copy) into ppjuice .

RECODE pupq19pop (1 = 4) (2 = 3) (3 = 2) (4 = 1) (5 thru hi = 0) (else = copy) into pppop.
RECODE pupq19ene (1 = 4) (2 = 3) (3 = 2) (4 = 1) (5 thru hi = 0) (else = copy) into ppenergy.

DO IF pppop >=0 & ppenergy >= 0 .
COMPUTE ppfizzy = pppop + ppenergy .
```

```
ELSE IF pppop < 0 & ppenergy >= 0 .
COMPUTE ppfizzy = ppenergy .
ELSE IF pppop >= 0 & ppenergy < 0 .
COMPUTE ppfizzy = pppop .
ELSE IF pppop < 0 & ppenergy < 0 .
COMPUTE ppfizzy = pppop .
END IF.
RECODE ppfizzy (4 thru hi = 4) (else = copy) .
FRE pppop ppenergy ppfizzy ppwater ppjuice.



**********************************************************************************************.

recode pupq20 (1=2) (2 thru 5=1) (else = copy) into ppeversmk .
recode pupq20 (1 thru 3=2) (4 thru 5=1) (else = copy) into ppsmoknow .

var lab ppeversmk '(D) Ever smoked cigarettes' .
var lab ppsmoknow '(D) Current smoker' .
val lab ppeversmk ppsmoknow -9 'Not answered' -8 "Don't know" 1 'Yes' 2 'No' .

recode pupq21 (1=2) (2 thru 5=1) (else = copy) into ppeverdrk .
recode pupq21 (1 thru 3=2) (4 thru 5=1) (else = copy) into ppdrnknow .

var lab ppeverdrk '(D) Ever drunk alcohol' .
var lab ppdrnknow '(D) Current drinker' .
val lab ppeverdrk ppdrnknow -9 'Not answered' -8 "Don't know" 1 'Yes' 2 'No' .

tab/tab pupq20 by ppeversmk .
tab/tab pupq20 by ppsmoknow .
tab/tab pupq21 by ppeverdrk .
tab/tab pupq21 by ppdrnknow .

FRE pupq20 pupq21.

NUMERIC ppsmkstat4 (F2).
VARIABLE LABELS ppsmkstat4 "(D) Smoking status, 4 categories".
VALUE LABELS ppsmkstat4
     -9 "Not answered"
     -8 "Don't know"
     1 "Never smoked"
     2 "Tried it/used to smoke"
     3 "Smokes sometimes, not every week"
     4 "Smokes at least once a week".

RECODE pupq20 (2, 3 = 2) (4 = 3) (5 = 4) (ELSE = COPY) INTO ppsmkstat4.
```

```
NUMERIC ppdrkstat4 (F2).
VARIABLE LABELS ppdrkstat4 "(D) Alcohol drinking status, 4 categories".
VALUE LABELS ppdrkstat4
     -9 "Not answered"
     -8 "Don't know"
     1 "Never drunk"
     2 "Tried it/used to drink"
     3 "Drinks sometimes, not every week"
     4 "Drinks at least once a week".

RECODE pupq21 (2, 3 = 2) (4 = 3) (5 = 4) (ELSE = COPY) INTO ppdrkstat4.

FRE ppsmkstat4 ppdrkstat4.
CROSSTABS pupq20 BY ppsmkstat4.
CROSSTABS pupq21 BY ppdrkstat4.

**********************************************************************************************.

fre pupq22par to pupq23soc .

recode pupq22par (-9=0) (2=0) (else = copy) into ppinfopar .
recode pupq22sib (-9=0) (2=0) (else = copy) into ppinfosib .
recode pupq22rel (-9=0) (2=0) (else = copy) into ppinforel .
recode pupq22fri (-9=0) (2=0) (else = copy) into ppinfofri .
recode pupq22den (-9=0) (2=0) (else = copy) into ppinfoden.
recode pupq22tea (-9=0) (2=0) (else = copy) into ppinfotea .
recode pupq22ots (-9=0) (2=0) (else = copy) into ppinfoths .
recode pupq22ota (-9=0) (2=0) (else = copy) into ppinfotha .

recode pupq23ads (-9=0) (2=0) (else = copy) into ppinfoads .
recode pupq23tv (-9=0) (2=0) (else = copy) into ppinfotv .
recode pupq23rad (-9=0) (2=0) (else = copy) into ppinforad .
recode pupq23pap (-9=0) (2=0) (else = copy) into ppinfopap .
recode pupq23net (-9=0) (2=0) (else = copy) into ppinfonet .
recode pupq23soc (-9=0) (2=0) (else = copy) into ppinfosoc .

var lab ppinfopar '(D) Helpful information on oral health from parents' .
var lab ppinfosib '(D) Helpful information on oral health from brothers/sisters' .
var lab ppinforel '(D) Helpful information on oral health from other adult relatives' .
var lab ppinfofri '(D) Helpful information on oral health from friends' .
var lab ppinfoden '(D) Helpful information on oral health from dentist, hygienist or dental nurse' .
var lab ppinfotea '(D) Helpful information on oral health from teachers' .
var lab ppinfoths '(D) Helpful information on oral health from other adults at school' .
var lab ppinfotha '(D) Helpful information on oral health from other adults' .
var lab ppinfoads '(D) Helpful information on oral health from advertisements' .
var lab ppinfotv '(D) Helpful information on oral health from TV programmes' .
var lab ppinforad '(D) Helpful information on oral health from radio' .
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var lab ppinfopap '(D) Helpful information on oral health from newspapers and magazines' .
var lab ppinfonet '(D) Helpful information on oral health from the internet' .
var lab ppinfosoc '(D) Helpful information on oral health from social media' .

val lab ppinfopar to ppinfosoc -9 'Not answered' -8 "Don't know" 0 'Not mentioned' 1 'Mentioned'  .

*-----.
*ppinfofmfr, ppinfosch.
NUMERIC ppinfofmfr ppinfosch (F2).
VARIABLE LABELS ppinfofmfr "(D) Received helpful information from family and friends"
      /ppinfosch "(D) Received helpful information from other professionals at school".
VALUE LABELS ppinfofmfr ppinfosch
-8 "Don't know"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 years old"
0 "Not mentioned"
1 "Mentioned".

*ppinfofmfr.
COMPUTE ppinfofmfr = -42.
IF any(0, ppinfopar, ppinfosib, ppinforel, ppinfofri) ppinfofmfr = 0.
IF any(-9, ppinfopar, ppinfosib, ppinforel, ppinfofri) ppinfofmfr = -9.
IF any(-8, ppinfopar, ppinfosib, ppinforel, ppinfofri) ppinfofmfr = -8.
IF any(-4, ppinfopar, ppinfosib, ppinforel, ppinfofri) ppinfofmfr = -4.
IF any(-1, ppinfopar, ppinfosib, ppinforel, ppinfofri) ppinfofmfr = -1.
IF any(1, ppinfopar, ppinfosib, ppinforel, ppinfofri) ppinfofmfr = 1.
FRE ppinfofmfr.

*ppinfosch.
FRE ppinfotea ppinfoths.

COMPUTE ppinfosch = -42.
IF any(0, ppinfotea, ppinfoths) ppinfosch = 0.
IF any(-9, ppinfotea, ppinfoths) ppinfosch = -9.
IF any(-8, ppinfotea, ppinfoths) ppinfosch = -8.
IF any(-4, ppinfotea, ppinfoths) ppinfosch = -4.
IF any(-1, ppinfotea, ppinfoths) ppinfosch = -1.
IF any(1, ppinfotea, ppinfoths) ppinfosch = 1.
FREQUENCIES ppinfosch.

*-----.
NUMERIC ppinfotvrd (F2).
VARIABLE LABELS ppinfotvrd "(D) Received helpful information from TV or radio".
VALUE LABELS ppinfotvrd
-8 "Don't know"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 years old"
```

```
0 "Not mentioned"
1 "Mentioned".

COMPUTE ppinfotvrd = -42.
IF any(0, ppinfotv, ppinforad) ppinfotvrd = 0.
IF any(-9, ppinfotv, ppinforad) ppinfotvrd = -9.
IF any(-8, ppinfotv, ppinforad) ppinfotvrd = -8.
IF any(-4, ppinfotv, ppinforad) ppinfotvrd = -4.
IF any(-1, ppinfotv, ppinforad) ppinfotvrd = -1.
IF any(1, ppinfotv, ppinforad) ppinfotvrd = 1.
FREQUENCIES ppinfotvrd.

tab/tab pupq22par by ppinfopar .
tab/tab pupq22sib by ppinfosib .
tab/tab pupq22rel by ppinforel .
tab/tab pupq22den by ppinfoden .
tab/tab pupq22tea by ppinfotea .
tab/tab pupq22ots by ppinfoths .
tab/tab pupq22ota by ppinfotha .

tab/tab pupq23ads by ppinfoads .
tab/tab pupq23tv by ppinfotv .
tab/tab pupq23rad by ppinforad .
tab/tab pupq23pap by ppinfopap .
tab/tab pupq23net by ppinfonet .
tab/tab pupq23soc by ppinfosoc .

recode ppinfopar (lo thru hi = copy) into ppinfofam .
if ppinfosib = 1 ppinfofam = 1.
if ppinforel = 1 ppinfofam = 1 .
if ppinfofam <0 ppinfofam = 0 .

recode ppinfotea (lo thru hi = copy) into ppinfoadult .
if ppinfoths = 1 ppinfoadult = 1 .
if ppinfotha = 1 ppinfoadult = 1 .
if ppinfoadult <0 ppinfoadult = 0 .

recode ppinfotv (lo thru hi=copy) into ppinfomedia .
if ppinforad=1 ppinfomedia=1 .
if ppinfopap=1 ppinfomedia=1 .
if ppinfomedia<0 ppinfomedia = 0 .

recode ppinfonet (lo thru hi = copy) into ppinfonline.
if ppinfosoc = 1 ppinfonline = 1 .
if ppinfonline<0 ppinfonline=0 .

var lab ppinfofam '(D) Helpful information on oral health from family members' .
```

```
var lab ppinfoadult '(D) Helpful information on oral health from adults outside family' .
var lab ppinfomedia '(D) Helpful information on oral health from traditional media' .
var lab ppinfonline '(D) Helpful information on oral health from electronic media' .

val lab ppinfofam to ppinfonline -9 'Not answered' -8 "Don't know" 0 'Not mentioned' 1 'Mentioned'  .

tab/tab ppinfofam by ppinfopar .
tab/tab ppinfofam by ppinfosib .
tab/tab ppinfofam by ppinforel .

tab/tab ppinfoadult by ppinfotea .
tab/tab ppinfoadult by ppinfoths .
tab/tab ppinfoadult by ppinfotha .

tab/tab ppinfomedia by ppinfotv .
tab/tab ppinfomedia by ppinfopap .
tab/tab ppinfomedia by ppinforad .

tab/tab ppinfonline by ppinfonet .
tab/tab ppinfonline by ppinfosoc .

EXECUTE.
*----------.

FRE ppdenhlth TO ppinfonline.

MISSING VALUES pupq1 TO ppinfonline (-9 thru -1) .
```

```
*Parent questionnaire derived variables.


missing values all () .

recode parq1 (1 thru 2 = 1) (3 thru 4 = 2) (5 thru 6 = 3) (7 = 4) (else = copy) into prfstbrsh .
var lab prfstbrsh '(D) Age of child when teeth first brushed - grouped' .
val lab prfstbrsh -9 'Not answered' -8 "Don't know" 1 'Under 1 year old' 2 '1 to 4 years' 3 'Over 4 years old'
 4 'Child does not brush teeth' .

tab/tab parq1 by prfstbrsh .

FRE parq3.

*-----.
*prfstbrsh2 - Age started brushing teeth.
FREQUENCIES parq1.

NUMERIC prfstbrsh2 (F2).
VARIABLE LABELS prfstbrsh2 "(D) Age started brushing teeth grouped - version 2".
VALUE LABELS prfstbrsh2
1 "under 6 months"
2 "Between 6 months and 1 year of age"
3 "Between 1 and 2 years of age"
4 "More than 2 years of age"
-2 "Not applicable ineligible dob"
 -3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year old"
-8 "Don't Know"
 -9 "Not Answered".

RECODE parq1 (-9 thru -1 = COPY) (1, 2, 3 = COPY) (4, 5, 6 = 4) INTO prfstbrsh2.
FREQUENCIES prfstbrsh2.

*Tooth brushing frequency.

recode parq3 (1 thru 3=1) (4 thru 6=2) (else=copy) into prbrush .
var lab prbrush '(D) Frequency of brushing teeth - grouped' .
val lab prbrush -9 'Not answered' -8 "Don't know" 1 'Twice a day or more' 2 'Once a day or less' .

tab/tab parq3 by prbrush .



***q4 DVs to account for non-response.
```

```
recode parq4man (-9=0) (2=0) (else=copy) into prmantb.
recode parq4ele (-9=0) (2=0) (else=copy) into prelectb.
recode parq4pas (-9=0) (2=0) (else=copy) into prpaste.
recode parq4flu (-9=0) (2=0) (else=copy) into prflutab.
recode parq4was (-9=0) (2=0) (else=copy) into prmwash.
recode parq4flo (-9=0) (2=0) (else=copy) into prfloss.
recode parq4dis (-9=0) (2=0) (else=copy) into prdiscl.
recode parq4gum (-9=0) (2=0) (else=copy) into prchgum.
recode parq4oth (-9=0) (2=0) (else=copy) into prothprod.

var lab prmantb '(D) Used manual toothbrush in last year' .
var lab prelectb '(D) Used electric toothbrush in last year' .
var lab prpaste '(D) Used toothpaste in last year' .
var lab prflutab '(D) Used fluoride drops or tablets in last year' .
var lab prmwash '(D) Used mouthwash in last year' .
var lab prfloss '(D) Used dental floss in last year' .
var lab prdiscl '(D) Used disclosing tablets in last year' .
var lab prchgum '(D) Used sugar-free or dental chewing gum in last year' .
var lab prothprod '(D) Used other dental care products in last year' .
val lab prmantb to prothprod -9 'Not answered' -8 "Don't know" 0 'Not mentioned' 1 'Mentioned' .

tab/tab parq4man by prmantb.
tab/tab parq4ele by prelectb.
tab/tab parq4pas by prpaste.
tab/tab parq4flu by prflutab.
tab/tab parq4was by prmwash.
tab/tab parq4flo by prfloss.
tab/tab parq4dis by prdiscl.
tab/tab parq4gum by prchgum.
tab/tab parq4oth by prothprod.

**********.

recode prmantb (lo thru hi = copy) into prtoothb .
if prelectb = 1 prtoothb = 1 .

recode prflutab (lo thru hi = copy) into pradcare .
if prmwash = 1 pradcare = 1 .
if prfloss = 1 pradcare = 1 .
if prdiscl = 1 pradcare = 1 .
if prchgum = 1 pradcare = 1 .
if prothprod = 1 pradcare = 1 .
if pradcare = 0 & any(-8, prflutab, prmwash, prfloss, prdiscl, prchgum, prothprod) pradcare = -8 .

var lab prtoothb '(D) Used any toothbrush in last year' .
var lab pradcare '(D) Used other care products in addition to brush and paste in last year' .
```

```
val lab prtoothb to pradcare -9 'Not answered' -8 "Don't know" 0 'Not mentioned' 1 'Mentioned' .

tab/tab prmantb by prtoothb .
tab/tab prelectb by prtoothb .

tab/tab prflutab by pradcare .
tab/tab prmwash by pradcare .
tab/tab prfloss by pradcare .
tab/tab prdiscl by pradcare .
tab/tab prchgum by pradcare .
tab/tab prothprod by pradcare .

*-----.
*PrHygn - Dental hygiene behaviour.
FREQUENCIES prpaste prtoothb pradcare.

NUMERIC prhygn (F2).
VARIABLE LABELS  prhygn "(D) Used toothbrush and toothpaste but not other products in last year".
VALUE LABELS prhygn
1 "mentioned"
0 "Not Mentioned"
-2 "Not applicable ineligible dob"
-3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year old"
-8 "Don't Know"
-9 "Not Answered".

Compute prhygn = -42.
IF (prtoothb=1 and prpaste=1) prhygn = 1.
IF any(0, prtoothb, prpaste) OR pradcare = 1 prhygn = 0.
IF prtoothb LT 0 prhygn = prtoothb.
IF prpaste LT 0 prhygn = prpaste.
IF pradcare LT 0 prhygn = pradcare.

FREQUENCIES prhygn.

**********.
FRE parq6.

recode parq6 (1 thru 3=1) (4=2) (else=copy) into prdenvis .
var lab prdenvis '(D) Ever visited dentist' .
val lab prdenvis -9 'Not answered' -8 "Don't know" 1 'Visited at least once' 2 'Never visited' .

tab/tab parq6 by prdenvis .

NUMERIC prfirst (F2).
```

```
VARIABLE LABELS prfirst '(D) Age child first visited dentist'.
VALUE LABELS prfirst 1 'Under 2' 2 'Under 3' 3 'Under 4' 4 'Under 5' 5 '5 and over' 6 ' Never been'.
IF((parq6=1 or parq6=2 or parq6=3) and (parq7<2)) prfirst=1.
IF((parq6=1 or parq6=2 or parq6=3) and (2=parq7)) prfirst=2.
IF((parq6=1 or parq6=2 or parq6=3) and (3=parq7)) prfirst=3.
IF((parq6=1 or parq6=2 or parq6=3) and (4=parq7)) prfirst=4.
IF((parq6=1 or parq6=2 or parq6=3) and (parq7>=5)) prfirst=5.
IF(parq6=4)  prfirst=6.
If(parq6<0) prfirst=parq6.


*-----.
*prdenattn - Dental attendance pattern.
FRE parq6 parq8.
crosstabs parq6 by parq8.

NUMERIC prdenattn (F2).
VARIABLE LABELS prdenattn "(D) Proxy reported dental attendance including never been".
VALUE LABELS  prdenattn
1 "For a check up"
2 " Only when have trouble with teeth"
3  "Never been to the dentist"
-2 "Not applicable ineligible dob"
 -3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year old"
-8 "Don't Know" -9 "Not Answered".

RECODE ParQ8 (-9 thru -1 = COPY) (1, 2, = COPY) INTO prdenattn.
IF Parq6 = 4 prdenattn=3.

FREQUENCIES prdenattn.

*-----.
*PrDenAtt2
 - child dental attendance from the parent qre with two categories - regular check up and only when have trouble/never been combined.

FRE prdenattn.

NUMERIC prdenattn2 (F2).
VARIABLE LABELS prdenattn2 "(D) Proxy report dental attendance - trouble/never grouped".
VALUE LABELS prdenattn2
1 "For a check up"
2 "Only when have trouble / Never been"
-4 "Unproductive at questionnaire"
-9 "Not answered".
```

```
RECODE prdenattn (1=1) (2=2) (3=2) (else=copy) into prdenattn2.
CROSSTABS prdenattn BY prdenattn2.


*Age child last visited the dentist.

NUMERIC prfirstunder (F2).
VARIABLE LABELS prfirstunder '(D) Age child first visited dentist'.
VALUE LABELS prfirstunder 1  'Under three' 2 'Three or over' 3 'Never been'.
If(prfirst=1 or prfirst=2) prfirstunder=1.
If(prfirst=3 or prfirst=4 or prfirst=5) prfirstunder=2.
If(prfirst=6) prfirstunder=3.
If(prfirst<0) prfirstunder=prfirst.
EXECUTE.


**********************************************************************************************.

recode parq9pfi (-9=0) (2=0) (else=copy) into prpermfil.
recode parq9pex (-9=0) (2=0) (else=copy) into prpermex.
recode parq9bfi (-9=0) (2=0) (else=copy) into prdecfil.
recode parq9bex (-9=0) (2=0) (else=copy) into prdecex.
recode parq9gen (-9=0) (2=0) (else=copy) into prgenana.
recode parq9sed (-9=0) (2=0) (else=copy) into prsedate.
recode parq9bra (-9=0) (2=0) (else=copy) into prbracef.
recode parq9dam (-9=0) (2=0) (else=copy) into prdamrep.
recode parq9sca (-9=0) (2=0) (else=copy) into prscapol.
recode parq9prv (-9=0) (2=0) (else=copy) into prpreven.
recode parq9adv (-9=0) (2=0) (else=copy) into pradvice.
recode parq9oth (-9=0) (2=0) (else=copy) into prothtreat.

var lab prpermfil '(D) Ever had permanent tooth filled' .
var lab prpermex '(D) Ever had permanent tooth extracted' .
var lab prdecfil '(D) Ever had deciduous tooth filled' .
var lab prdecex '(D) Ever had deciduous tooth extracted' .
var lab prgenana '(D) Ever had general anaesthetic before dental treatment' .
var lab prsedate '(D) Ever had sedation before dental treatment' .
var lab prbracef '(D) Ever had brace fitted or adjusted' .
var lab prdamrep '(D) Ever had repair to damaged tooth' .
var lab prscapol '(D) Ever had scale and polish' .
var lab prpreven '(D) Ever had preventative treatment to teeth' .
var lab pradvice '(D) Ever had advice on oral care' .
var lab prothtreat '(D) Ever had other dental treatment' .
val lab prpermfil to prothtreat -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
 0 'Not mentioned' 1 'Mentioned' .

tab/tab parq9pfi by prpermfil.
```

```
tab/tab parq9pex by prpermex.
tab/tab parq9bfi by prdecfil.
tab/tab parq9bex by prdecex.
tab/tab parq9gen by prgenana.
tab/tab parq9sed by prsedate.
tab/tab parq9bra by prbracef.
tab/tab parq9dam by prdamrep.
tab/tab parq9sca by prscapol.
tab/tab parq9prv by prpreven.
tab/tab parq9adv by pradvice.
tab/tab parq9oth by prothtreat.

recode prpermfil (lo thru hi=copy) into prfilling.
if prdecfil=1 prfilling = 1 .

recode prpermex (lo thru hi=copy) into prextract .
if prdecex = 1 prextract = 1 .

var lab prfilling '(D) Ever had any tooth filled' .
var lab prextract '(D) Ever had any tooth extracted' .
val lab prfilling to prextract -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
 0 'Not mentioned' 1 'Mentioned' .

tab/tab prpermfil by prfilling .
tab/tab prdecfil by prfilling .
tab/tab prpermex by prextract .
tab/tab prdecex by prextract .

FRE prpermfil, prpermex, prdecfil, prdecex, prgenana, prsedate, prbracef, prdamrep.

compute prtreated = 999 .
if any (-1, prpermfil, prpermex, prdecfil, prdecex, prgenana, prsedate, prbracef, prdamrep) prtreated=-1 .
if any (1, prpermfil, prpermex, prdecfil, prdecex, prgenana, prsedate, prbracef, prdamrep) prtreated=1 .
if (prpermfil=0) & (prpermex=0) & (prdecfil=0) & (prdecex=0) & (prgenana=0) & (prsedate=0)
& (prbracef=0) & (prdamrep=0) prtreated = 2 .

temp.
select if prtreated=999 .
list serial parq9pfi to parq9oth .

var lab prtreated '(D) Ever had clinical treatment' .
val lab prtreated -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
 1 'One or more treatments' 2 'No treatments' .

tab/tab prtreated by prpermfil .
tab/tab prtreated by prpermex .
tab/tab prtreated by prdecfil .
```

```
tab/tab prtreated by prdecex .
tab/tab prtreated by prgenana .
tab/tab prtreated by prsedate .
tab/tab prtreated by prbracef .
tab/tab prtreated by prdamrep .


*-----.
*pranxbrk - Proxy rated dental anxiety.
FRE parq10.

NUMERIC pranxbrk (F2).
VARIABLE LABELS pranxbrk "(D) Proxy dental anxiety score grouped".
VALUE LABELS pranxbrk
1 "Low/no anxiety"
2 "Moderate anxiety"
3 "Extreme anxiety"
4 "My Child never goes to dentist"
-2 "Not applicable ineligible dob"
-3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year old"
-8 "Don't Know"
-9 "Not Answered".

RECODE parq10 (-9 thru -1 = COPY) (1 = 1) (2, 3, 4 = 2) (5 thru 10 = 3) (97 = 4) INTO pranxbrk.
FREQUENCIES pranxbrk.



**********************************************************************************************.

fre parq11gp to parq11non .

recode parq11gp (lo thru hi = copy) into prlocnhs .
if parq11sch = 1 prlocnhs = 1 .

recode parq11hos (lo thru hi = copy) into prspecnhs .
if parq11ort = 1 prspecnhs = 1 .

var lab prlocnhs '(D) Ever visited NHS family, local, community or school dentist' .
var lab prspecnhs '(D) Ever visited NHS specialist dentist' .
val lab prlocnhs to prspecnhs -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
 0 'Not mentioned' 1 'Mentioned' .

tab/tab parq11gp by prlocnhs .
tab/tab parq11sch by prlocnhs .
```

```
tab/tab parq11hos by prspecnhs .
tab/tab parq11ort by prspecnhs .

**********************************************************************************************.
FRE parq12.

recode parq12 (1 thru 2 = 1) (3 thru 4=2) (else = copy) into prlastvis .
var lab prlastvis '(D) Last time child visited dentist - grouped' .
val lab prlastvis  -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
  1 'Within the last year' 2 'Over a year ago' .

tab/tab parq12 by prlastvis .


*-----.
*prlstvisnvr - Last visit to the dentist.
Fre parq6 parq12.

Numeric prlstvisnvr (F2).
var lab prlstvisnvr "(D) Last time child visited dentist - grouped" .
val lab prlstvisnvr
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-1 "Item not applicable"
1 "Within the last year"
2 "Over a year ago"
3 "Never been to the dentist".

RECODE parq12 (-9 thru -1 = COPY) (1, 2 = 1) (3, 4, = 2) INTO prlstvisnvr.
IF (parq6=4) prlstvisnvr = 3.

FREQUENCIES prlstvisnvr.


*Last treatment paid for.

FRE parq14.

recode parq14 (2 thru hi = 2) (else=copy) into prdenpay .
var lab prdenpay '(D) Was last treatment free or paid for - grouped' .
 val lab prdenpay  -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
  1 'Treatment was free' 2 'Some or all of treatment was paid for' .

tab/tab parq14 by prdenpay .
```

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*-----.
*Satisfaction with dental practice (not applicable kept as valid response).

NUMERIC prsatrwa prsatuwa prsatqua prsatcf prsatadv prsatcom prsatovrl (F2).

var lab prsatrwa "(D) Satisfaction with wait for routine appointment grouped" .
var lab prsatuwa "(D) Satisfaction with wait for urgent appointment grouped" .
var lab prsatqua "(D) Satisfaction with standard and quality of care grouped" .
var lab prsatcf "(D) Satisfaction with child friendly nature of practice grouped" .
var lab prsatadv "(D) Satisfaction with provision of preventative advice grouped" .
var lab prsatcom "(D) Satisfaction with communication of dental team grouped" .
var lab prsatovrl "(D) Overall experience of dental practice grouped" .

val lab prsatrwa to prsatovrl
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-1 "Item not applicable"
1 "Good or very good"
2 "Fair or worse"
3 "Not applicable".

recode parq15rwa (1=1) (2=1) (3=2) (4=2) (5=2) (8=3) (else=copy) into prsatrwa.
recode parq15uwa (1=1) (2=1) (3=2) (4=2) (5=2) (8=3) (else=copy) into prsatuwa.
recode parq15qua (1=1) (2=1) (3=2) (4=2) (5=2) (8=3) (else=copy) into prsatqua.
recode parq15cf (1=1) (2=1) (3=2) (4=2) (5=2) (8=3) (else=copy) into prsatcf.
recode parq15adv (1=1) (2=1) (3=2) (4=2) (5=2) (8=3) (else=copy) into prsatadv.
recode parq15com (1=1) (2=1) (3=2) (4=2) (5=2) (8=3) (else=copy) into prsatcom.
recode parq16 (1=1) (2=1) (3=2) (4=2) (5=2) (8=3) (else=copy) into prsatovrl.



*create a set of satisfaction DVs where not applicable is treated as missing.

If( prsatrwa=1) prsatrwa2=1.
If( prsatrwa=2) prsatrwa2=2.
If( prsatrwa=3) prsatrwa2=-2.
If( prsatrwa<0) prsatrwa2=prsatrwa.
VARIABLE LABELS prsatrwa2 'Satisfaction with wait for routine appointment second grouping'.
VALUE LABELS prsatrwa2
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-2 "Not applicable response given"
-1 "Item not applicable"
1 "Good or very good"
2 "Fair or worse".
```

```
fre prsatrwa2.
crosstab prsatrwa by prsatrwa2.

If( prsatuwa=1) prsatuwa2=1.
If( prsatuwa=2) prsatuwa2=2.
If( prsatuwa=3) prsatuwa2=-2.
If( prsatuwa<0) prsatuwa2=prsatuwa.
VARIABLE LABELS prsatuwa2 'Satisfaction with wait for urgent appointment second grouping'.
VALUE LABELS prsatuwa2
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-2 "Not applicable response given"
-1 "Item not applicable"
1 "Good or very good"
2 "Fair or worse".
fre prsatuwa2.
crosstab prsatuwa by prsatuwa2.

fre prsatqua.

If( prsatqua=1) prsatqua2=1.
If( prsatqua=2) prsatqua2=2.
If( prsatqua=3) prsatqua2=-2.
If( prsatqua<0) prsatqua2=prsatqua.
VARIABLE LABELS prsatqua2 'Satisfaction with standard and quality of care second grouping'.
VALUE LABELS prsatqua2
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-2 "Not applicable response given"
-1 "Item not applicable"
1 "Good or very good"
2 "Fair or worse".
fre prsatqua2.
crosstab prsatqua by prsatqua2.

fre prsatcf.
If( prsatcf=1) prsatcf2=1.
If( prsatcf=2) prsatcf2=2.
If( prsatcf=3) prsatcf2=-2.
If( prsatcf<0) prsatcf2=prsatcf.
VARIABLE LABELS prsatcf2 'Satisfaction with child friendly nature of practice second grouping'.
VALUE LABELS prsatcf2
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
```

```
-2 "Not applicable response given"
-1 "Item not applicable"
1 "Good or very good"
2 "Fair or worse".
fre prsatcf2.
crosstab prsatcf by prsatcf2.

fre prsatadv.

If( prsatadv=1) prsatadv2=1.
If( prsatadv=2) prsatadv2=2.
If( prsatadv=3) prsatadv2=-2.
If( prsatadv<0) prsatadv2=prsatadv.
VARIABLE LABELS prsatadv2 'Satisfaction with provision of preventative advice second grouping'.
VALUE LABELS prsatadv2
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-2 "Not applicable response given"
-1 "Item not applicable"
1 "Good or very good"
2 "Fair or worse".
fre prsatadv2.
crosstab prsatadv by prsatadv2.

fre prsatcom.

If( prsatcom=1) prsatcom2=1.
If( prsatcom=2) prsatcom2=2.
If( prsatcom=3) prsatcom2=-2.
If( prsatcom<0) prsatcom2=prsatcom.
VARIABLE LABELS prsatcom2 'Satisfaction with communication of dental team second grouping'.
VALUE LABELS prsatcom2
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-2 "Not applicable response given"
-1 "Item not applicable"
1 "Good or very good"
2 "Fair or worse".
fre prsatcom2.
crosstab prsatcom by prsatcom2.

fre prsatovrl.

If( prsatovrl=1) prsatovrl2=1.
If( prsatovrl=2) prsatovrl2=2.
```

```
If( prsatovrl=3) prsatovrl2=-2.
If( prsatovrl<0) prsatovrl2=prsatovrl.
VARIABLE LABELS prsatovrl2 'Overall satisfaction with dental practice second grouping'.
VALUE LABELS prsatovrl2
-9 "Not answered"
-8 "Don't know"
-4 "Unproductive at questionnaire"
-2 "Not applicable response given"
-1 "Item not applicable"
1 "Good or very good"
2 "Fair or worse".
fre prsatovrl2.
crosstab prsatovrl by prsatovrl2.

*recommend dentist at last visit.

recode parq17 (1 thru 2 = 1) (3 thru 4 = 2) (else=copy) into prrecden .
var lab prrecden "(D) Would recommend child's dentist - grouped" .
 val lab prrecden  -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
  1 'Would definitely or probably recommend' 2 'Would probably or definitely not recommend'
  8 'Not sure' .

tab/tab parq17 by prrecden .


*NHS access-----.
*PrNHSAccs - Accessing an NHS dentist.

FRE parq18 Parq20.
CROSSTABS parq18 BY Parq20.

NUMERIC prnhsaccs (F2).
VARIABLE LABELS prnhsaccs "(D) Whether had problems accessing an NHS dentist".
VALUE LABELS prnhsaccs
1 "Yes - in the last two years"
2 "Yes - more than two years ago"
3 "Yes -Don"t know how long ago"
4 "No"
5 "Never tried"
-1 "Item not applicable"
-2 "Not applicable ineligible dob"
-3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-8 "Don't Know"
-9 "Not Answered".

RECODE ParQ20 (-9 thru -1 = COPY) (1, 2 = 1) (3 = 2) INTO prnhsaccs.
```

```
IF (Parq18 = 1 AND ParQ20 LT 0) prnhsaccs = 3.
If (Parq18=2) prnhsaccs=4.
If (Parq18=3) prnhsaccs=5.

FREQUENCIES prnhsaccs.


*-----.
*prortho - Atttitude to orthodontic treatment need.
FRE parq22 ParQ25.

NUMERIC prortho (F2).
VARIABLE LABELS prortho "(D) Attitude to orthodontic treatment need".
VALUE LABELS prortho
1 "Their teeth are alright"
2 "Would prefer them straightened"
3 "Currently undergoing orthodontic treatment"
-2 "Not applicable ineligible dob"
-3 "Unproductive at exam"
-4 "Unproductive at questionnaire"
-1 "Not applicable 5 or 8 year old"
-8 "Don't Know"
-9 "Not Answered".

RECODE ParQ25 (-9 thru -1 = COPY) (1, 2 = COPY) INTO prortho.
IF (Parq22=1) prortho=3.

Frequencies prortho.



**********************************************************************************************************.

recode parq26ach (-9=0) (2=0) (else=copy) into prache.
recode parq26pai (-9=0) (2=0) (else=copy) into prpain.
recode parq26gum (-9=0) (2=0) (else=copy) into prgums.
recode parq26brk (-9=0) (2=0) (else=copy) into prbrok.
recode parq26bad (-9=0) (2=0) (else=copy) into prbreath.
recode parq26app (-9=0) (2=0) (else=copy) into prappear.
recode parq26tre (-9=0) (2=0) (else=copy) into prtrcaus.
recode parq26ot (-9=0) (2=0) (else=copy) into prothprob.

var lab prache '(D) Toothache in last 6 months' .
var lab prpain '(D) Other pain in mouth in last 6 months' .
var lab prgums '(D) Bleeding or swollen gums in last 6 months' .
var lab prbrok '(D) Broken tooth in last 6 months' .
var lab prbreath '(D) Bad breath in last 6 months' .
```

```
var lab prappear '(D) Problems with appearance in last 6 months' .
var lab prtrcaus '(D) Problems caused by dental treatment in last 6 months' .
var lab prothprob  '(D) Other problems with teeth or mouth in last 6 months' .

val lab prache to prothprob -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
 0 'Not mentioned' 1 'Mentioned' .

tab/tab parq26ach by prache.
tab/tab parq26pai by prpain.
tab/tab parq26gum by prgums.
tab/tab parq26brk by prbrok.
tab/tab parq26bad by prbreath.
tab/tab parq26app by prappear.
tab/tab parq26tre by prtrcaus.
tab/tab parq26ot by prothprob.

compute pranycon = 999 .
if any(1, prache, prpain, prgums, prbrok, prbreath, prappear, prtrcaus, prothprob) pranycon = 1 .
if (prache=0) & (prpain=0) & (prgums=0) & (prbrok=0) & (prbreath=0) & (prappear=0)
 & (prtrcaus=0) & (prothprob=0) pranycon=2 .

*temp.
*select if pranycon = 999.
*list serial parq26ach to parq26ot .

var lab pranycon '(D) Any condition in the last 6 months' .
val lab pranycon -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
 1 'One or more conditions' 2 'No conditions' .

tab/tab pranycon by prache .
tab/tab pranycon by prpain .
tab/tab pranycon by prgums .
tab/tab pranycon by prbrok .
tab/tab pranycon by prbreath .
tab/tab pranycon by prappear .
tab/tab pranycon by prtrcaus .
tab/tab pranycon by prothprob .

**********.
FRE parq27off TO parq27anx.

recode parq27off (2 thru 5=2) (else=copy) into prtimoff .
recode parq27fin (2 thru 5=2) (else=copy) into prfindiff .
recode parq27att (2 thru 5=2) (else=copy) into prattent .
recode parq27slp (2 thru 5=2) (else=copy) into prsleep .
recode parq27act (2 thru 5=2) (else=copy) into prfamacts .
recode parq27gui (2 thru 5=2) (else=copy) into prguilty .
```

```
recode parq27anx (2 thru 5=2) (else=copy) into prstress .

var lab prtimoff "(D) Time off work because of child's dental health in last 6 months" .
var lab prfindiff "(D) Financial difficulties because of child's dental health in last 6 months" .
var lab prattent "(D) Child needed more attention because of dental health in last 6 months" .
var lab prsleep "(D) Parent's sleep disrupted because of child's dental health in last 6 months" .
var lab prfamacts "(D) Family activities interrupted because of child's dental health in last 6 months" .
var lab prguilty "(D) Parent felt guilty because of child's dental health in last 6 months" .
var lab prstress "(D) Parent felt stressed or anxious because of child's dental health in last 6 months" .
val lab prtimoff to prstress -9 'Not answered' -8 "Don't know" -1 'Item not applicable'
 1 'Never' 2 'At least once or twice' .

tab/tab parq27off by prtimoff .
tab/tab parq27fin by prfindiff .
tab/tab parq27att by prattent .
tab/tab parq27slp by prsleep .
tab/tab parq27act by prfamacts .
tab/tab parq27gui by prguilty .
tab/tab parq27anx by prstress .


compute prfamimp = 999 .
if any(-9, prtimoff, prfindiff, prattent, prsleep, prfamacts, prguilty, prstress) prfamimp = -9 .
if any(-4, prtimoff, prfindiff, prattent, prsleep, prfamacts, prguilty, prstress) prfamimp = -9 .
if any(2, prtimoff, prfindiff, prattent, prsleep, prfamacts, prguilty, prstress) prfamimp = 2 .
if (prtimoff=1) & (prfindiff=1) & (prattent=1) & (prsleep=1) & (prfamacts=1) & (prguilty=1) & (prstress=1) prfamimp = 1 .

var lab prfamimp "(D) Impact on family life of child's dental health in last 6 months" .
val lab prfamimp -9 'Not answered' -8 "Don't know" -4 'Unproductive at questionnaire' -1 'Item not applicable'
 1 'No impact' 2 'Some impact' .

FRE prfamimp.

add val lab parq1 to prfamimp -9 'Not answered' -8 "Don't know" -1 'Item not applicable'  .
EXECUTE.

*----------.
FRE prfstbrsh TO prfamimp.


*----- Parental dental attendance from the parent qre: combining the never/only when in trouble categories.

FRE parq29.

NUMERIC prdenatt3 (F2).
VARIABLE LABELS prdenatt3 "(D) Responding adult's dental attendance - trouble/don't go to dentist grouped".
VALUE LABELS prdenatt3
```

1 "For a regular check up"
2 "For an occasional check up"
3 "Only when have trouble / Don't go to dentist"
-4 "Unproductive at questionnaire"
-9 "Not answered".

RECODE parq29 (-9 thru -1 = COPY) (1, 2 = COPY) (3, 4 = 3) INTO prdenatt3.
CROSSTABS parq29 BY prdenatt3.

missing values parq1 to prdenatt3 (-9 thru -1) .