Workshop Two – Practical exercises – Worked syntax

Exercise 1: Weighted frequencies

1. % of children aged 34 months lived in an area classed as 'large urban'? **38%**

   Could be using birth cohort data at sweep 3 or child cohort data at sweep 1 and applying the appropriate cross-sectional cohort weight.

   Syntax would be:
   Weight by dcwtbrth.
   fre dcurind2.
   exe.

DcURind2 ALc - SG urban-rural classification

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Large urban	469	37.6	37.6	37.6
	2 Other urban	433	34.7	34.7	72.2
	3 Small, accessible towns	108	8.6	8.6	80.9
	4 Small remote towns	28	2.3	2.3	83.2
	5 Accessible rural	150	12.0	12.0	95.2
	6 Remote rural	60	4.8	4.8	100.0
	Total	1248	100.0	100.0	

For child cohort, syntax would be:

Weight by dawtchld.
fre ALaURin2*.*
exe.

ALaURin2 SE urban-rural classification

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Large urban	321	37.5	37.5	37.5
	2 Other urban	266	31.1	31.1	68.6
	3 Small, accessible towns	90	10.5	10.5	79.1
	4 Small remote towns	16	1.9	1.9	81.0
	5 Accessible rural	112	13.1	13.1	94.0
	6 Remote rural	51	6.0	6.0	100.0
	Total	856	100.0	100.0	

2. % of mothers of children aged 4-5 years were employed full-time? *15% on BC, 19% on CC – decrease possibly as a result of recession?*

   Could be using birth cohort sweep 5 or child cohort sweep 3

   For birth cohort, syntax would be:
   Weight by dewtchld.
   fre dewsta02.
   exe.

DeWsta02 De Mothers employment status (incl. adopt./foster/step-mothers)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Childs mother working - full-time	168	14.8	15.0	15.0
	2 Childs mother working - part-time	562	49.6	50.2	65.2
	3 Childs mother not working	389	34.3	34.8	100.0
	Total	1119	98.7	100.0	
Missing	-3 Information not available	14	1.3		
Total		1134	100.0		

   For child cohort, syntax would be:
   Weight by dcwtchld.
   fre dcwsta02.
   exe.

DcWsta02 Dc Mothers employment status

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Childs mother working - full-time	125	18.3	18.8	18.8
	2 Childs mother working - part-time	300	43.9	45.1	63.9
	3 Childs mother not working	240	35.1	36.1	100.0
	Total	666	97.4	100.0	
Missing	-3 No information	18	2.6		
Total		684	100.0		

3. How has general health of children aged 3-4 years changed between 2007 and 2009? *A bit of a change: 2007 - 65% very good and 28% good, changed to 73% and 22% respectively by 2009, overall 'good' increased 93% to 95%.*

   In the context of this exercise should use child cohort data at sweep 2 and birth cohort data from sweep 4.

   Syntax for child cohort would be:
   Weight by dbwtchld
   fre mbhgen01.
   Exe.

MbHgen01 Mb - Child's general health

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Very good	479	64.8	64.8	64.8
	2 Good	208	28.2	28.2	93.1
	3 Fair	48	6.5	6.5	99.6
	4 Bad	3	.4	.4	100.0
	Total	738	100.0	100.0	

   Syntax for birth cohort would be:
   Weight by ddwtbrth.
   fre mdhgen01.
   Exe.

MdHgen01 Md - Childs general health

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 ...very good,	855	71.8	71.8	71.8
	2 good,	267	22.4	22.4	94.2
	3 fair,	61	5.1	5.1	99.3
	4 bad,	5	.4	.4	99.7
	5 or, very bad?	3	.3	.3	100.0
	Total	1191	100.0	100.0	

Exercise 2: Weighted crosstabs

1. How does car ownership vary amongst families of 34 month-old children who live in areas of different deprivation?

Can use CC sweep 1 or BC sweep 3.

For BC sweep 3, syntax is:

```
weight by dcwtbrth.
cross dcadsco2 by mczveh01
/cells = count row
/count = truncate cell.
exe.
```

DcADsco2 ALc - SIMD 2006 quintiles * McZveh01 Mc - Household has cont use of vehicle Crosstabulation

			McZveh01 Mc - Household has cont use of vehicle		
			1 Yes	2 No	Total
DcADsco2 ALc - SIMD 2006 quintiles	1 0.9449 - 7.7446 - least deprived	Count	225	7	232
		% within DcADsco2 ALc - SIMD 2006 quintiles	97.0%	3.0%	100.0%
	2 7.7472 - 13.5627	Count	217	20	237
		% within DcADsco2 ALc - SIMD 2006 quintiles	91.6%	8.4%	100.0%
	3 13.5640 - 21.0436	Count	211	30	241
		% within DcADsco2 ALc - SIMD 2006 quintiles	87.6%	12.4%	100.0%
	4 21.0521 - 33.6982	Count	198	50	248
		% within DcADsco2 ALc - SIMD 2006 quintiles	79.8%	20.2%	100.0%
	5 33.7252 -89.0941 - most deprived	Count	156	129	285
		% within DcADsco2 ALc - SIMD 2006 quintiles	54.7%	45.3%	100.0%
Total		Count	1007	236	1243
		% within DcADsco2 ALc - SIMD 2006 quintiles	81.0%	19.0%	100.0%

For CC sweep 1, syntax is:

```
weight by dawtchld.
cross ALaSNimd by mazveh01
/cells = count row
/count = truncate cell.
exe.
```

ALaSNimd SIMD 2006 Quintiles * MaZveh01 Do you, or any members of your household, at present own or have continuous use of any motor vehicles (SW1) Crosstabulation

			MaZveh01 Do you, or any members of your household, at present own or have continuous use of any motor vehicles (SW1)		
			1 Yes	2 No	Total
ALaSNimd SIMD 2006 Quintiles	1 0.9449 - 7.7446 - least deprived	Count	152	3	155
		% within ALaSNimd SIMD 2006 Quintiles	98.1%	1.9%	100.0%
	2 7.7472 - 13.5627	Count	153	12	165
		% within ALaSNimd SIMD 2006 Quintiles	92.7%	7.3%	100.0%
	3 13.5640 - 21.0436	Count	149	24	173
		% within ALaSNimd SIMD 2006 Quintiles	86.1%	13.9%	100.0%
	4 21.0521 - 33.6982	Count	97	42	139
		% within ALaSNimd SIMD 2006 Quintiles	69.8%	30.2%	100.0%
	5 33.7252 -89.0941 - most deprived	Count	117	100	217
		% within ALaSNimd SIMD 2006 Quintiles	53.9%	46.1%	100.0%
Total		Count	668	181	849
		% within ALaSNimd SIMD 2006 Quintiles	78.7%	21.3%	100.0%

2. To what extent does the weather in Scotland affect how often 4 year old children play outdoors? (Hint: look at how playing outside varies by month/quarter of interview)

Need to use child cohort data at sweep 3. Equivalent variable is not available for BC at sweep 5.

```
weight by dcwtchld.
cross dcxqurt1 by mcaply02
/cells = count row
/count = truncate cell.
exe.
```

Dc Quarter of interview * Mc - Play outdoors in last week Crosstabulation

			Mc - Play outdoors in last week							
			0	1	2	3	4	5	6	7
Dc Quarter of interview	January to March	Count	23.24	18.312	28.167	18.199	12.089	13.012	3.415	44.801
		% within Dc Quarter of interview	14.4%	11.4%	17.5%	11.3%	7.5%	8.1%	2.1%	27.8%
	April to June	Count	.000	.843	7.198	8.669	14.818	17.620	3.750	117.149
		% within Dc Quarter of interview	.0%	.5%	4.2%	5.1%	8.7%	10.4%	2.2%	68.9%
	July to Septembe	Count	2.907	2.486	4.829	10.622	14.994	16.582	7.464	143.751
		% within Dc Quarter of interview	1.4%	1.2%	2.4%	5.2%	7.4%	8.1%	3.7%	70.6%
	October to December	Count	10.341	4.913	10.653	5.774	12.370	19.661	10.006	73.950
		% within Dc Quarter of interview	7.0%	3.3%	7.2%	3.9%	8.4%	13.3%	6.8%	50.1%
Total		Count	36.489	26.553	50.847	43.264	54.271	66.874	24.634	379.651
		% within Dc Quarter of interview	5.3%	3.9%	7.4%	6.3%	8.0%	9.8%	3.6%	55.6%

3. What proportion of families who used non-parental childcare when their child is aged 10 months is still doing so at age 34 months?

Crosstab on use of childcare at sweep 1 by use of childcare at sweep 3 in birth cohort using longitudinal weight.

```
weight by dcwtbrth2.
cross macany01 by dccany01
/cells = count row
/count = truncate cell.
exe.
```

			Dc Whether resp uses regular CCare at Sw3		
			Yes	No	Total
Sw1 Whether using any childcare for cohort child	Yes	Count	10.306	.898	11.205
		% within Sw1 Whether using any childcare for cohort child	92.0%	8.0%	100.0%
	No	Count	8.123	1.978	10.101
		% within Sw1 Whether using any childcare for cohort child	80.4%	19.6%	100.0%
Total		Count	18.429	2.876	21.305
		% within Sw1 Whether using any childcare for cohort child	86.5%	13.5%	100.0%