Workshop Two – Practical exercises – Worked syntax

Exercise 1: Weighted frequencies

1. % of children aged 22 months lived in an area in the highest deprivation quintile? 25%

   Should be using birth cohort data at sweep 2 and applying the sweep 2 birth cohort weight.
   Syntax would be:
   Weight by dbwtbrth
   fre albsnimd
   exe.

Ab - Scottish Index of Multiple Deprivation 2006 quintiles

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0.9449 - 7.7446 - least deprived	233	17.2	17.3	17.3
	7.7472 - 13.5627	259	19.1	19.2	36.5
	13.5640 - 21.0436	255	18.8	18.9	55.4
	21.0521 - 33.6982	261	19.2	19.4	74.7
	33.7252 -89.0941 - most deprived	341	25.1	25.3	100.0
	Total	1349	99.3	100.0	
Missing	System	10	.7		
Total		1359	100.0		

2. % of mothers of 46 mths children working full-time? 16%.

   Should be using the child cohort data at sweep 2 and thus applying the sweep 2 child cohort weight.
   Syntax would be:
   Weight by dbwtchld.
   fre dbwsta02
   exe.

Db - Mothers employment status

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Childs mother working - full-time	114	15.5	15.7	15.7
	Childs mother working - part-time	326	44.2	45.0	60.7
	Childs mother not working	285	38.6	39.3	100.0
	Total	726	98.3	100.0	
Missing	-1.00	13	1.7		
Total		738	100.0		

3. How has general health of children aged 34 months changed between 2005 and 2007? *Almost no change: 2005 - 93% good or very good, 2007 - 94%, although fewer 'very good' in 2007.*

   In the context of this exercise should use child cohort data at sweep 1 and birth cohort data from sweep 3.
   Syntax would be:
   Weight by dawtchld
   fre mahgen01.
   Exe.

How is child s health in general (SW1)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very good	632	73.9	73.9	73.9
	Good	164	19.2	19.2	93.1
	Fair	53	6.2	6.2	99.3
	Bad	6	.7	.7	100.0
	Total	856	100.0	100.0	

Weight by dcwtbrth
fre mchgen01.
exe.

Mc - Childs general health

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	...very good,	881	70.6	70.6	70.6
	good,	305	24.4	24.4	95.0
	fair,	58	4.7	4.7	99.7
	bad,	4	.3	.3	100.0
	Total	1248	100.0	100.0	

Exercise 2: Weighted crosstabs

1. How does car ownership vary amongst families of 10 month-old children who live in areas of different urban/rural classification? *Those in remote or rural areas more likely to own or have access to a vehicle*

```
weight by dawtbrth.
cross alaurin2 by mazveh01
/cells = count row
/count = asis.
exe.
```

SE urban-rural classification * Do you, or any members of your household, at present own or have continuous use of any motor vehicles (SW1) Crosstabulation

			Do you, or any members of your household, at present own or have continuous use of any motor vehicles (SW1)		
			Yes	No	Total
SE urban-rural classification	Large urban	Count	484.371	125.625	609.997
		% within SE urban-rural classification	79.4%	20.6%	100.0%
	Other urban	Count	391.501	141.626	533.127
		% within SE urban-rural classification	73.4%	26.6%	100.0%
	Small, accessible towns	Count	111.091	22.125	133.217
		% within SE urban-rural classification	83.4%	16.6%	100.0%
	Small remote towns	Count	30.520	9.185	39.704
		% within SE urban-rural classification	76.9%	23.1%	100.0%
	Accessible rural	Count	187.162	17.741	204.903
		% within SE urban-rural classification	91.3%	8.7%	100.0%
	Remote rural	Count	53.545	4.607	58.152
		% within SE urban-rural classification	92.1%	7.9%	100.0%
Total		Count	1258.189	320.911	1579.100
		% within SE urban-rural classification	79.7%	20.3%	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)

```
weight by dcwtchld.
cross dcxqurt1 by mcaply02
/cells = count row
/count = asis.
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 use non-parental childcare when their child is aged 10 months is still doing so at age 34 months?

```
DATASET ACTIVATE DataSet1.
weight by dcwtbth2.
cross macany01 by dccany01
/cells = count row
/count = asis.
exe.
```

This is the table you obtain if you use the Sw1 variable already in the Sw3 dataset: very few cases because it is the fed-forward variable, so only those cases fed-forward from Sw1 directly to Sw3 (i.e. skipping Sw2) are included

			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%

If you want to compare the situation at Sw1 with the situation at Sw3 you need to import the original variable MaCany01 from Sw1 (after deleting the variable with the same name in Sw3 before you merge the Sw1 variable into Sw3). You should get the following cross-tab using the syntax above:

MaCany01 Do you currently get help with childcare for child on a regular basis (SW1) * DcCany01 Dc Whether resp uses regular CCare at Sw3 Crosstabulation

			DcCany01 Dc Whether resp uses regular CCare at Sw3		
			1 Yes	2 No	Total
MaCany01 Do you currently get help with childcare for child on a regular basis (SW1)	1 Yes	Count	683.154	84.472	767.626
		% within MaCany01 Do you currently get help with childcare for child on a regular basis (SW1)	89.0%	11.0%	100.0%
	2 No	Count	260.481	194.933	455.414
		% within MaCany01 Do you currently get help with childcare for child on a regular basis (SW1)	57.2%	42.8%	100.0%
Total		Count	943.635	279.405	1223.040
		% within MaCany01 Do you currently get help with childcare for child on a regular basis (SW1)	77.2%	22.8%	100.0%