# Worksheet 2: Frequency and Crosstabs Exercises Using SPSS Menus

This document provides worked examples of some very basic commands which can be used to explore and analyse the GUI data using SPSS drop-down menus. The first example of each of the weighted frequencies and the weighted crosstabulations are accompanied with detailed screen shots of how the run the analysis using SPPS menus. You can then work through the rest of the examples (the appropriate output for each example is presented). Please note this worksheet is based on SPSS Version 17.

# **Exercise 1: Weighted frequencies**

Frequencies are a very quick and simple way to obtain a descriptive overview of single or multiple variables allowing an assessment of the distribution of responses across the population

E.g. 1 – What proportion of nine-month-old infants were living in lone parent families?

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16		1600.00	.18		1.21	1.00	1.00	7
17		1700.00	.69		4.59	1.00	1.00	3
18		1800.00	1.25		8.29	1.00	1.00	3
19		1900.00	1.69		11.19	1.00	1.00	3
20		2000.00	.99		6.52	0.	2.00	3
21		2100.00	.89		5.92	1.00	3.00	4
22		2200.00	.68		4.49	0.	2.00	4
23		2300.00	1.09		7.22	.0	2.00	4
24		2400.00	.54		3.59	1.00	1.00	4
25		2500.00	.23		1.53	1.00	1.00	4
26		2600.00	.39		2.56	.0	2.00	5
27		2700.00	.35		2.30	1.00	1.00	5

## 1) First you will need to weight the data. Select Data $\rightarrow$ Weight Cases

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2) The following dialog box will appear.

III Weight Cases	
<ul> <li>✓ ID</li> <li>✓ WGT_9MTH</li> <li>✓ GROSS_9MTH</li> <li>✓ Partner</li> <li>✓ Int_type</li> <li>MMA4</li> <li>MMa5ap1</li> <li>✓ MMagep1</li> </ul>	<ul> <li>● Do not weight cases</li> <li>● Weight cases by</li> <li>Frequency Variable:</li> <li>●</li> <li>●</li> <li>■</li> <li>Current Status: Weight cases by WGT_9MTH</li> <li>■</li> <li>■</li></ul>

3) Click on 'Weight cases by'. Browse through the list of variables on the left and highlight the one you want ('*WGT\_9MTH*) and click on the arrow in the middle. Click on 'OK'.

Weight Cases	×
<ul> <li>✓ Partner</li> <li>✓ Int_type</li> <li>♣ MMA4</li> <li>♣ MMa5ap1</li> <li>✓ MMagep1</li> <li>▲ MMa5rmp1</li> </ul>	

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13	1300.00		<u>S</u> urvi	val	•	1.00		1.00	6
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17	1800.00		🖉 ROC	Cur <u>v</u> e		1.00		1.00	3
19	1900.00		1.69	11.	19	1.00		1.00	3
20	2000.00		.99		52	0.		2.00	3
21	2100.00		.89	5.	92	1.00		3.00	4
22	2200.00		.68	4.	49	.0		2.00	4
23	2300.00		1.09	7.	22	.0		2.00	4
24	2400.00		.54	3.	59	1.00		1.00	4
25	2500.00		.23		53	1.00		1.00	4
26	2600.00		.39		56	.0		2.00	5
27	2700.00		.35	2.	30	1.00		1.00	5

# 4) To run the frequency, select Analyse $\rightarrow$ Descriptive Statistics $\rightarrow$ Frequencies

5) The following dialog box will appear:

III Frequencies		×				
<ul> <li>srSCGBMI</li> <li>srSCGBMI_rec</li> <li>intPCGBMI</li> <li>intPCGBMI_rec</li> <li>intSCGBMI</li> <li>intSCGBMI_rec</li> <li>hsdclass</li> <li>xhsdclass</li> </ul>	⊻ariable(s):	<u>Statistics</u> Charts <u>F</u> ormat				
☑ Display frequency tables       OK     Paste     Reset     Cancel     Help						

6) Browse through the list of variables on the left and highlight the one(s) you want ('*Partner*') and click on the arrow in the middle.

III Frequencies		X				
<ul> <li>✓ ID</li> <li>✓ WGT_9MTH</li> <li>✓ GROSS_9MTH</li> <li>✓ Int_type</li> <li>MMA4</li> <li>MMa5ap1</li> <li>✓ MMagep1</li> <li>▲ MMa5rmp1</li> </ul>	Variable(s): ✓Partner	<u>Statistics</u> Charts <u>F</u> ormat				
☑ Display frequency tables       OK     Paste     Reset     Cancel     Help						

7) Click 'OK' and the output will show you the frequency table for that variable.

					Cumulative		
		Frequency	Percent	Valid Percent	Percent		
Valid	.00 No partner	1645	14.8	14.8	14.8		
	1.00 Has partner	9489	85.2	85.2	100.0		
	Total	11134	100.0	100.0			

Partner Partner in household

E.g. 2 – What proportion of nine-month-old infants are in some form of non-parental childcare?

The output should be:

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4338	39.0	39.0	39.0
	2 No	6796	61.0	61.0	100.0
	Total	11134	100.0	100.0	

MME1 E1. Is baby currently being minded by someone else

E.g. 3 – What proportion of primary caregivers are satisfied with their childcare arrangements?

The output should be:

MME10a E10a. How satisfied are you with these arrangements?							
					Cumulative		
		Frequency	Percent	Valid Percent	Percent		
Valid	1 Very satisfied	3745	33.6	86.5	86.5		
	2 Fairly satisfied	498	4.5	11.5	98.0		
	3 Neither satisfied nor	52	.5	1.2	99.2		
	dissatisfied						
	4 Fairly dissatisfied	29	.3	.7	99.9		
	5 Very dissatisfied	6	.1	.1	100.0		
	Total	4330	38.9	100.0			
Missing	9 Don't Know	8	.1				
	System	6796	61.0				
	Total	6804	61.1				
Total		11134	100.0				

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**E.g. 4** – What proportion of nine-month-old infants have siblings?

The output should be:

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 yes	6579	59.1	59.1	59.1
	2 no	4555	40.9	40.9	100.0
	Total	11134	100.0	100.0	

MMF0 F0. Does baby have brothers/sisters living in this household?

**E.g. 5** – What proportion of primary caregivers took folic acid prior to becoming pregnant?

The output should be:

	MMG11a G11a. Folic acid/Folate - prior to becoming pregnant with baby?							
					Cumulative			
		Frequency	Percent	Valid Percent	Percent			
Valid	1 Yes	6936	62.3	63.7	63.7			
	2 No	3959	35.6	36.3	100.0			
	Total	10895	97.9	100.0				
Missing	9 Don't Know	190	1.7					
	System	49	.4					
	Total	239	2.1					
Total		11134	100.0					

MMC11a C11a Falia agid/Falat riar ta h nt with haby? .

**E.g.** 6 – What proportion of nine-month-old infants were ever breastfed?

MINITIS HISA. WAS DADY EVER DIEASTIEU?								
					Cumulative			
		Frequency	Percent	Valid Percent	Percent			
Valid	1 Yes	6231	56.0	56.0	56.0			
	2 No	4901	44.0	44.0	100.0			
	Total	11131	100.0	100.0				
Missing	9 Don't Know	3	.0					
Total		11134	100.0					

MMH13 H13a. Was baby ever breastfed?

**E.g. 7** – How do primary caregivers describe their current health?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Excellent	3410	30.6	30.6	30.6
	2 Very good	4336	38.9	38.9	69.6
	3 Good	2600	23.4	23.4	92.9
	4 Fair	687	6.2	6.2	99.1
	5 Poor	100	.9	.9	100.0
	Total	11133	100.0	100.0	
Missing	9 Don't Know	1	.0		
Total		11134	100.0		

MMJ1 J1. In general, how would you say your current health is?

**E.g. 8** – What was the highest level of education completed by primary caregivers?

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1 No formal education	22	.2	.2	.2
	2 Primary education	374	3.4	3.4	3.6
	3 Lower secondary	1559	14.0	14.0	17.6
	4 Upper secondary	2806	25.2	25.2	42.8
	5 Technical or vocational	456	4.1	4.1	46.9
	qualification				
	6 Both upper secondary and	451	4.1	4.1	51.0
	Technical or Vocational				
	qualification				
	7 Non Degree	2205	19.8	19.8	70.8
	8 Primary Degree	959	8.6	8.6	79.4
	9 Professional qualification	372	3.3	3.3	82.8
	(of Degree status at least)				
	10 Both a Degree and a	621	5.6	5.6	88.3
	Professional qualification				
	11 Postgraduate Certificate	766	6.9	6.9	95.2
	or Diploma				
	12 Postgraduate Degree	468	4.2	4.2	99.4
	(Masters)				
	13 Doctorate	62	.6	.6	100.0
	Total	11123	99.9	100.0	
Missing	99 Don't Know	11	.1		
Total		11134	100.0		

MML34 L34. Highest level of education which you have completed?

**E.g. 9** – What was the highest level of education completed by secondary caregivers? The output should be:

Cumulative Frequency Percent Valid Percent Percent Valid 1 No formal education 24 .2 .3 .3 2.7 3.0 228 2.0 2 Primary education 18.5 3 Lower secondary 1308 11.8 15.5 4 Upper secondary 1644 14.8 19.5 38.1 5 Technical or vocational 939 11.2 49.2 8.4 qualification 6 Both upper secondary and 379 3.4 4.5 53.7 **Technical or Vocational** qualification 70.2 7 Non Degree 1390 12.5 16.5 8 Primary Degree 924 8.3 11.0 81.2 9 Professional qualification 283 2.5 3.4 84.6 (of Degree status at least) 10 Both a Degree and a 382 3.4 4.5 89.1 Professional qualification 11 Postgraduate Certificate 314 2.8 3.7 92.8 or Diploma 12 Postgraduate Degree 99.2 534 4.8 6.3 (Masters) 100.0 13 Doctorate 69 .6 .8 Total 8418 75.6 100.0 Missing 99 Don't Know 11 .1 System 2705 24.3 Total 2716 24.4 11134 100.0 Total

FF13 F13. What is the highest level of education which you have completed?

**E.g.** 10 – What proportion secondary caregivers felt that they had missed out on home or family activities because of their work?

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1 Strongly disagree	1022	9.2	12.2	12.2
	2 Disagree	2587	23.2	30.7	42.9
	3 Neither agree nor	573	5.1	6.8	49.7
	disagree				
	4 Agree	2799	25.1	33.3	83.0
	5 Strongly agree	782	7.0	9.3	92.3
	6 Not applicable	650	5.8	7.7	100.0
	Total	8412	75.6	100.0	
Missing	9 Don't Know	15	.1		
	System	2707	24.3		
	Total	2722	24.4		
Total		11134	100.0		

FE2a E2a. Missed out on home or family activities

## **Exercise 2: Weighted crosstabulations**

Crosstabulations are another quick and simple way to get descriptive results from the data. Crosstabs permit the comparison of responses across different groups of children or families.

**E.g. 1** – How did breastfeeding vary across family social class?.

1) Select Analyse $\rightarrow$ Descriptive Statistics $\rightarrow$ Crosstabs								
III *GUI D	ata_9MonthCo	hort.sav [l	DataSet1] - PA	S٧	V Statistics I	Data Edi	tor	
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10	1000.00	Sc <u>a</u> l	e	۶	1.00	3.0		
11	1100.00	Nong	arametric Tests	•	.0	2.0		
12	1200.00	Fore	casting	•	1.00	1.0		
13	1300.00	Survi			1.00	1.0		
14	1400.00		ple Response	È.	1.00	1.0	10 7	
15	1500.00	_			.0	2.0	10 7	
16	1600.00		p <u>l</u> ex Samples		1.00	1.0	10 7	
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18	1800.00	ROC 🖉	Cur <u>v</u> e		1.00	1.0	10 3	
19	1900.00	1.69	11.1	19	1.00	1.0	10 3	
20	2000.00	.99	6.5	52	.0	2.0	10 3	
21	2100.00	.89	5.9	92	1.00	3.0		
22	2200.00	.68	4.4	_	.0	2.0		
23	2300.00	1.09	7.2		.0	2.0		
24	2400.00	.54	3.5	_	1.00	1.0		
25	2500.00	.23	1.5	_	1.00	1.0		
26	2600.00	.39	2.5	_	.0	2.0		
27	2700.00	.35	2.3	30	1.00	1.0	10 5	

### 1) Select Analyse $\rightarrow$ Descriptive Statistics $\rightarrow$ Crosstabs

2) The following dialog box will appear.

🖩 Crosstabs		X				
<ul> <li>ID</li> <li>WGT_9MTH</li> <li>GROSS_9MTH</li> <li>GROSS_9MTH</li> <li>Partner</li> <li>Int_type</li> <li>MMA4</li> <li>MMa5ap1</li> <li>MMa5ap1</li> <li>MMa5rmp1</li> <li>MMa5rcp1</li> <li>MMa5pesp1</li> <li>MMa5pesp1</li> <li>MMa5ap2</li> <li>MMagep2</li> <li>Display clustered bar charts</li> </ul>	Row(s): Column(s): Layer 1 of 1 Previous Next	<u>S</u> tatistics C <u>e</u> lls <u>F</u> ormat				
Suppress <u>t</u> ables						
	<u> </u>					

3) As before browse and highlight the variables you want to cross-reference and move them to the row and column boxes as applicable

🖩 Crosstabs 🛛 🔀						
Ayadic_SCG   CES_TOT_PCG   CES_TOT_SCG   SrPCGBMI   SrPCGBMI_rec   SrSCGBMI_rec   intPCGBMI_rec   intSCGBMI_rec   intSCGBMI_rec   intSCGBMI_rec   intSCGBMI_rec   intSCGBMI_rec   intSCGBMI_rec   intSCGBMI_rec   htype4						
Suppress tables						
OK Paste Reset Cancel Help						

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	🎟 Crosstabs: Cell Display 🛛 🛛 🔀	
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<ul> <li>srPCGBI</li> <li>srSCGBI</li> <li>srSCGBI</li> <li>intPCGB</li> <li>intPCGB</li> <li>intPCGB</li> <li>intSCGB</li> <li>intSCGB</li> <li>intSCGB</li> </ul>	Row       Unstandardized         Column       Standardized         Total       Adjusted standardized	
<ul> <li>Indeced</li> <li>hsdclass</li> <li>hhtype4</li> <li>Display cl</li> <li>Suppress</li> </ul>	<ul> <li>Round cell counts</li> <li>Round case weights</li> <li>Truncate cell counts</li> <li>Truncate case weights</li> <li>No adjustments</li> </ul>	

4) Select 'Cells' and the following dialog box will appear

5) Under 'Percentages', click column

🖽 Crosstabs 🛛 🗙								
	🖩 Crosstabs: Cell Display 🛛 🛛 🔀							
	Counts <u>Observed</u> <u>Expected</u>	Statistics C <u>e</u> lls Format						
<ul> <li>✓ srSCGBI</li> <li>✓ srSCGBI</li> <li>✓ intPCGB</li> <li>✓ intPCGB</li> </ul>	□ Row       □ Unstandardized         ☑ Column       □ Standardized         □ Total       □ Adjusted standardized							
<ul> <li>intSCGB</li> <li>intSCGB</li> <li>hsdclass</li> <li>hhtype4</li> </ul>	Noninteger Weights							
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xhsdclass Family's social class - 3 fold category 7.00 All others 2.00 Other gainfully 1.00 non-3.00 Semioccupied 8.00 Never Professional/ manual/skille skilled/unskill and worked at all managerial d-manual ed manual unknown - no class Total MMH13 H13a. 1 Yes Count 3572 322 6231 1764 542 31 Was baby ever 66.9% 49.7% 32.1% 56.0% % within xhsdclass 48.4% 54.4% breastfed? Family's social class - 3 fold category 2 No Count 1879 548 680 4899 1766 26 % within xhsdclass 33.1% 51.6% 50.3% 45.6% 67.9% 44.0% Family's social class - 3 fold category Total 1090 1002 Count 5338 3643 57 11130 % within xhsdclass 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% Family's social class - 3 fold category

6) Click 'Continue' and then 'OK' and you will get the following output:MMH13 H13a. Was baby ever breastfed? \* xhsdclass Family's social class - 3 fold category Crosstabulation

**E.g. 2** – How did nine-month-old infant's current health status vary across the gender of the Study Child?.

The output should be:

			MMa5ap2	Gender P2	
			1 male	2 female	Total
MMH20b H20. In general,	1 Very healthy, no problems	Count	4634	4563	9197
how would you describe baby s current health?		% within MMa5ap2 Gender P2	81.4%	84.5%	82.9%
	2 Healthy, but a few minor	Count	983	786	1769
	problems	% within MMa5ap2 Gender P2	17.3%	14.6%	15.9%
	3 Sometimes quite ill	Count	61	47	108
		% within MMa5ap2 Gender P2	1.1%	.9%	1.0%
	4 Almost always unwell	Count	14	5	19
		% within MMa5ap2 Gender P2	.2%	.1%	.2%
Total		Count	5692	5401	11093
		% within MMa5ap2 Gender P2	100.0%	100.0%	100.0%

### MMH20b H20. In general, how would you describe baby s current health? \* MMa5ap2 Gender P2 Crosstabulation

**E.g. 3** – How did the primary caregiver's health status vary by family income?.

MMJ1 J1. In general, how would you say your current health is? * ElncQuin Equivalised Household Annual Income - Quin	tiles				
Crosstabulation					

			EIncQuin Equivalised Household Annual Income - Quintiles				) vintile e	
			EincQuin	Equivalised F	iousenoid Ann	ual Income - C	5.00	
			1.00 Lowest	2.00 2nd	3.00 3rd	4.00 4th	Highest	Total
MMJ1 J1. In	1 Excellent	Count	517	558	602	770	720	3167
general, how would you say your current health is?		% within ElncQuin Equivalised Household Annual Income - Quintiles	25.2%	27.0%	29.2%	34.5%	38.1%	30.7%
	2 Very good	Count	717	794	833	922	778	4044
		% within EIncQuin Equivalised Household Annual Income - Quintiles	34.9%	38.4%	40.4%	41.3%	41.1%	39.2%
	3 Good	Count	598	542	481	439	321	2381
		% within EIncQuin Equivalised Household Annual Income - Quintiles	29.1%	26.2%	23.3%	19.7%	17.0%	23.1%
	4 Fair	Count	190	143	129	93	67	622
		% within EIncQuin Equivalised Household Annual Income - Quintiles	9.3%	6.9%	6.3%	4.2%	3.5%	6.0%
	5 Poor	Count	32	32	15	9	6	94
		% within EIncQuin Equivalised Household Annual Income - Quintiles	1.6%	1.5%	.7%	.4%	.3%	.9%
Total		Count	2054	2069	2060	2233	1892	10308
		% within EIncQuin Equivalised Household Annual Income - Quintiles	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**E.g. 4** – How did use of non-parental childcare vary across family type?.

MMF1 F1 Is haby current	ly being minded	hy someone else  * ht	htvne4 4 Category House	hold Type Crosstabulation
winter eri is baby current	iy being minaca	by someone cise in	niyper + oulegoly nouse	noid Type or 033tabalation

				2.00 One parent		4.00 Two parents	
			1.00 One parent	2 or more	3.00 Two parents	2 or more	
			1 child under 18	children under 18	1 child under 18	children under 18	
			years	years	years	years	Total
MME1 E1. Is	1 Yes	Count	309	295	1771	1963	4338
baby currently		% within hhtype4 4	38.2%	35.2%	49.1%	33.4%	39.0%
being minded by		Category Household					
someone else		Туре					
	2 No	Count	499	542	1837	3917	6795
		% within hhtype4 4	61.8%	64.8%	50.9%	66.6%	61.0%
		Category Household					
		Туре					
Total		Count	808	837	3608	5880	11133
		% within hhtype4 4	100.0%	100.0%	100.0%	100.0%	100.0%
		Category Household					
		Туре					

**E.g. 5** – How did the primary caregiver's rating of how safe it was to walk alone in their area after dark vary by urban/rural classification?.

The output should be:

			region Region - Rural/Urban		
			1.00 Urban	2.00 Rural	Total
MMM3a M3a. Local area -	1 Strongly agree	Count	819	1494	2313
Safe to walk alone in this		% within region Region -	16.2%	24.9%	20.9%
area after dark		Rural/Urban			
	2 Agree	Count	2859	3027	5886
		% within region Region -	56.7%	50.3%	53.2%
		Rural/Urban			
	3 Disagree	Count	1083	1150	2233
		% within region Region -	21.5%	19.1%	20.2%
		Rural/Urban			
	4 Strongly disagree	Count	283	341	624
		% within region Region -	5.6%	5.7%	5.6%
		Rural/Urban			
Total		Count	5044	6012	11056
		% within region Region -	100.0%	100.0%	100.0%
		Rural/Urban			

### MMM3a M3a. Local area - Safe to walk alone in this area after dark \* region Region - Rural/Urban Crosstabulation