[Last updated: 16 August 2017]

[Commentary by John F Hall]

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An Introduction to Secondary Data Analysis with IBM SPSS Statistics

(Sage, Dec. 2017)

5.1 Chapter 5 video tutorials (direct link to companion website)

[NB: All video tutorials for chapter 5 are on the same web page and cannot (yet) be disaggregated]

Video tutorial 5.1.4: Selecting cases and using the COUNT command (3'57")

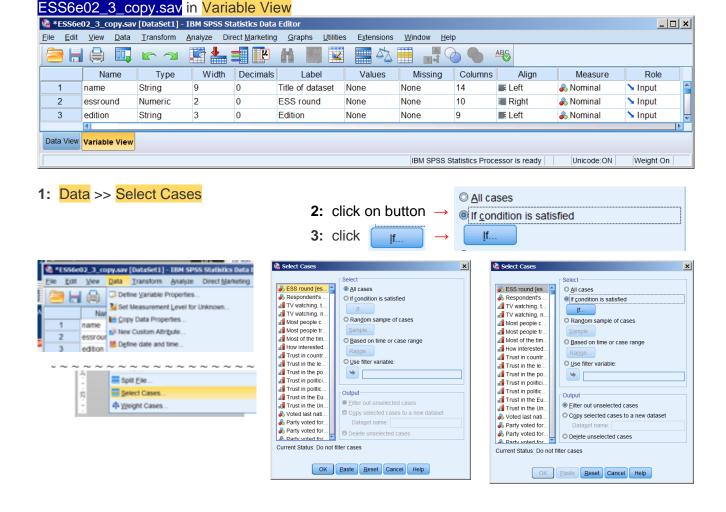
Task 1: Select all countries except Albania

(Task 2: Create a new variable using COUNT is on page 4)

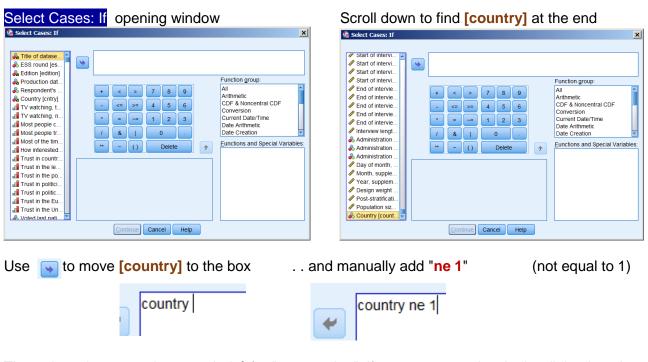
Exemplar: European Social Survey 2012

SPSS file: ESS6e02_3_copy.sav¹

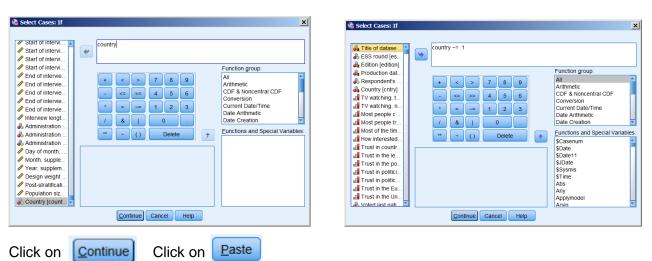
SPSS command: FILTER Variable used: country

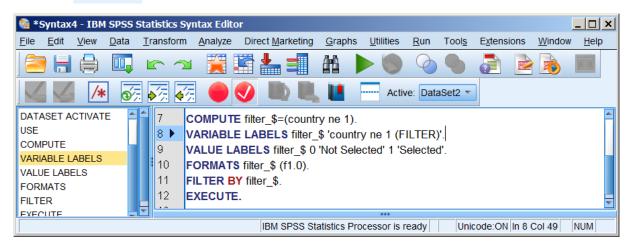


¹ The file used in this commentary is **ESS6e02_3_copy.sav**: in the video, JM uses **ESS6e02_1.sav**, an earlier edition



There doesn't seem to be a symbol ≠ for "not equal to": if you enter < and > via the dialog box there will be two spaces in between the characters < >: the spaces need to be deleted to read <>.





[NB: This filter does not produce any output. **EXECUTE** forces a data pass and the filter remains in force for all subsequent commands unless SPSS encounters a **USE** ALL or **FILTER** OFF command.]

Once you have finished the current analysis, and to avoid being caught unawares by a filter lurking in SPSS, it's a good idea to switch it off² using:

FILTER OFF.

An alternative filter would be:

Warning: this selection remains in force for all subsequent commands. To avoid inadvertently making a permanent change to the data, it's better to use a **TEMPORARY**⁴ command first.

```
temporary.
select if (country ne 1) . or select if (country <> 1) .
freq country . freq country .
```

Table: Countries excluding Albania (Unweighted)

country Country

	country country						
			Danasat	Valid Dansont	Cumulative		
		Frequency	Percent	Valid Percent	Percent		
Valid	2 Belgium	921	1.6	1.6	1.6		
	3 Bulgaria	635	1.1	1.1	2.7		
	4 Switzerland	676	1.2	1.2	3.9		
	5 Cyprus	72	.1	.1	4.1		
	6 Czech Republic	896	1.6	1.6	5.7		
	7 Germany	7101	12.5	12.5	18.2		
	8 Denmark	459	.8.	.8	19.0		
	9 Estonia	113	.2	.2	19.2		
	10 Spain	3917	6.9	6.9	26.1		
	11 Finland	451	.8	.8	26.9		
	12 France	5319	9.4	9.4	36.3		
	13 United Kingdom	5217	9.2	9.2	45.5		
	14 Hungary	852	1.5	1.5	47.0		
	15 Ireland	359	.6	.6	47.7		
	16 Israel	563	1.0	1.0	48.7		
	17 Iceland	25	.0	.0	48.7		
	18 Italy	5229	9.2	9.2	57.9		
	19 Lithuania	256	.5	.5	58.4		
	20 Netherlands	1383	2.4	2.4	60.8		
	21 Norway	406	.7	.7	61.6		
	22 Poland	3272	5.8	5.8	67.3		
	23 Portugal	898	1.6	1.6	68.9		
	24 Russian Federation	12139	21.4	21.4	90.4		
	25 Sweden	790	1.4	1.4	91.8		
	26 Slovenia	176	.3	.3	92.1		
	27 Slovakia	457	.8	.8	92.9		
	28 Ukraine	3892	6.9	6.9	99.8		
	29 Kosovo	135	.2	.2	100.0		
	Total	56611	100.0	100.0			

For the next SPSS command, Albania will be restored to the data set

² If you don't switch the filter off the later variable [missdep] will display only two values (0, 1) not the full range (0 - 8).

³ For an introduction to the **SELECT IF** command, see: <u>3.4.1 Tutorial - Conditional transformations</u>

⁴ With **TEMPORARY**, the case selection remains in force only for the next command, after which the data revert to all cases: it has the same effect as **USE** ALL.

Task 2: Create a new variable using COUNT⁵

Target variable: missdep "Number of missing values in the 8-item depression inventory"

Source variables: fltdpr flteeff slprl wrhpp fltlnl enjlf fltsd cldgng

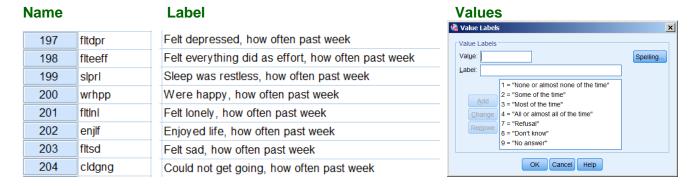
Values counted: (7, 8, 9) SPSS command: COUNT

CARD 25

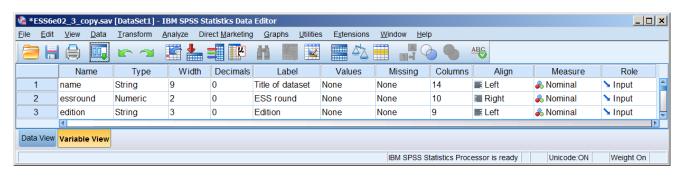
I will now read out a list of the ways you might have felt or behaved during the past week. Using this card, please tell me how much of the time during the past week . . .

	None or almost none of the time	Some of the time	Most of the time	All or almost all of the time	(Don't know)	
D5 you felt depressed?	1	2	3	4	8	[flteeff]
D6 you felt that everything you did was an effort	•	2	3	4	8	[slprl]
D7your sleep was restles	ss? 1	2	3	4	8	[wrhpp]
D8 you were happy?	1	2	3	4	8	[enjlf]
D9 you felt lonely?	1	2	3	4	8	[fitini]
D10 you enjoyed life?	1	2	3	4	8	[enjlf]
D11you felt sad?	1	2	3	4	8	[fltsd]
D12you could not get goir	ng? 1	2	3	4	8	[cldgng]

The associated variables are in rows 197 -204 of the Data Editor:



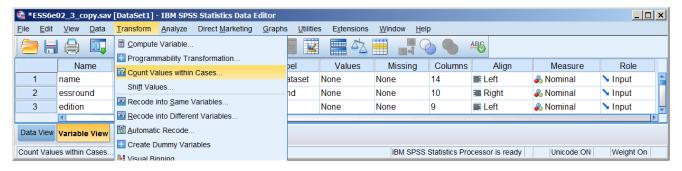
The example below uses **ESSe02_3_copy.sav**.



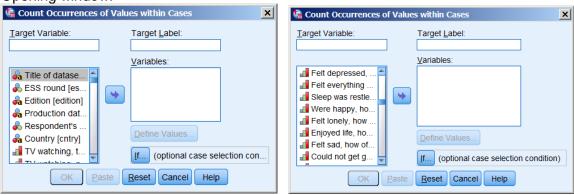
⁵ For an introduction to the **COUNT** command, see: <u>3.5.1 An introduction to COUNT and COMPUTE</u>

Note that on the video JM is still using file **ESS6e02_1.sav**. In fact his syntax has already been displayed in the video before he gets round to demonstrating how he obtained it.

Transform >> Count Values within Cases



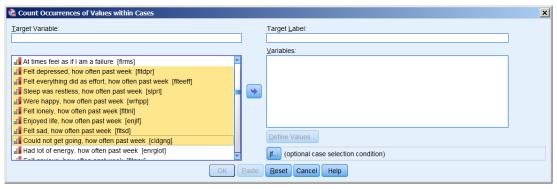
Opening window:



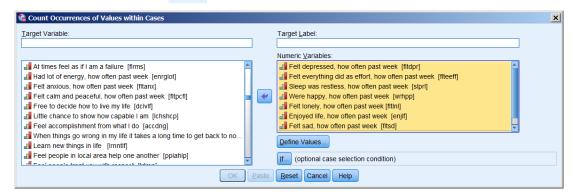
Oops! The file is set to display **Labels**. Scrolling down to find the right variables using **Names** is bad enough, but finding them with **Labels** is nigh on impossible. You can drag the right edge out to see more text:



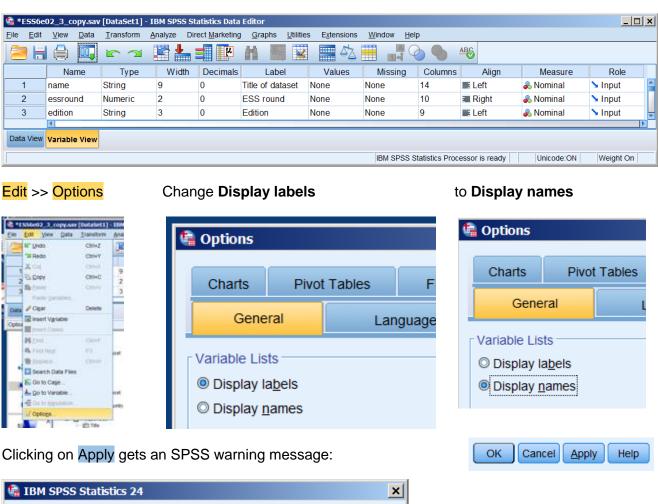
When you eventually find them, highlight the variable labels:

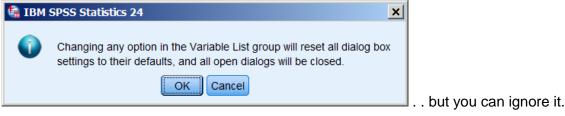


Click on the blue arrow to transfer the variables to the right hand pane:



Hang on, there's an easier way to do this. To replicate this exercise more easily, users need to change the display settings back to **Names**

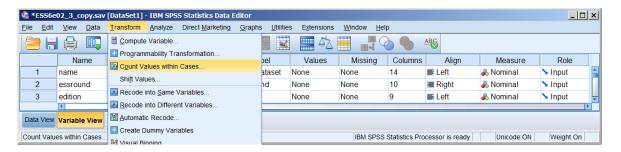




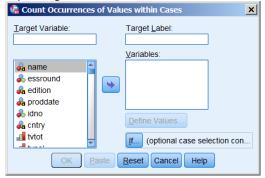
Click on OK

Now try again.

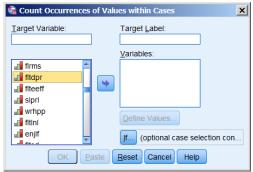
Transform >> Count Values within Cases



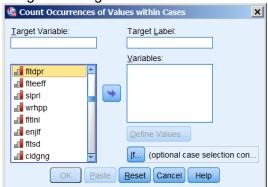
Opening window



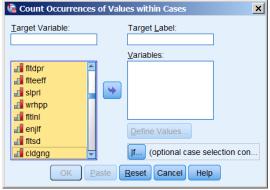
Scroll down to find feltdpr (it's on line 197)



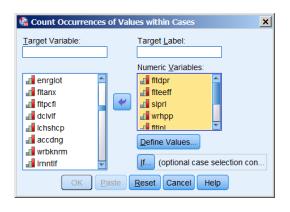
Drag lower edge down to see all 8 items



Shift click on **cldgng** to highlight all 8



Click on to transfer all 8 to the Variables pane:



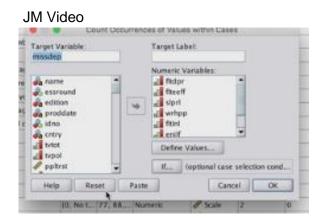
Drag lower edge down to see all 8



JM doesn't show the scrolling, so we don't know how long he actually takes to find the correct variables. He knows where to find them: we don't

His next step, naming a **target variable**, is not shown: **missdep** is already written in the Target Variable box. JM has obviously done a trial run: he does **Reset** to clear the dialog, enters a name and label for the target variable and clicks on: **Define Values...**

He is now using variable **Names** not **Labels** and has already transferred the variables in the depression inventory to the right hand pane. However, it would make more sense, and be more logical, to choose a name and label for the target variable **before** defining the specifications.

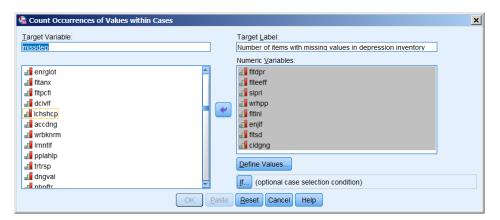


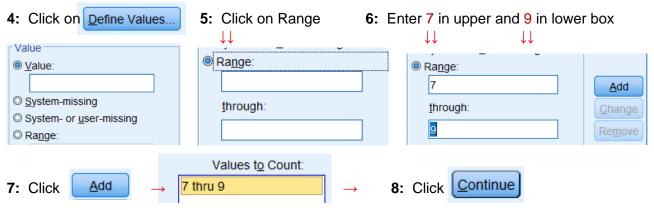


- 1: Write name of target variable
- 2: Give it a label



3: Find the eight depression items, highlight them and click on to transfer them to the **Numeric Variables** box





"Before I do that I need to give a name to the new variable . ." and writes **missdep** in the **Target Variable** box: he does not give it a label.

Syntax generated by Paste

- 1 DATASET ACTIVATE DataSet2.
- 2 COUNT missdep=fltdpr flteeff slprl wrhpp fltlnl enjlf fltsd cldgng(7 thru 9).
- 3 EXECUTE.

It's far quicker and easier to write syntax direct:

```
COUNT missdep = fltdpr to cldgng (7,8,9).
```

[NB: There's a mistake on line 21 in the syntax file on the companion website:

```
*alternative syntax.

COUNT missdep to cldgng (7 8 9).
```

should be:

```
*alternative syntax.

COUNT missdep = fltdpr to cldqnq (7 8 9).
```

JM doesn't actually run the command, but it would cause an error:

```
>Error # 4570 in column 15. Text: to
>On the COUNT command, the count variable was not followed by the required
>equals sign.
>Execution of this command stops.
```

There is no variable label for [missdep], and weights are not applied.

For a quick check:

freq missdep.

Statistics

missdep

N Valid 56835

Missing 0

missdep						
					Cumulative	
		Frequency	Percent	Valid Percent	Percent	
Valid	.00	53542	94.2	94.2	94.2	
	1.00	2136	3.8	3.8	98.0	
	2.00	641	1.1	1.1	99.1	
	3.00	201	.4	.4	99.4	
	4.00	88	.2	.2	99.6	
	5.00	76	.1	.1	99.7	
	6.00	26	.0	.0	99.8	
	7.00	41	.1	.1	99.9	
	8.00	84	.1	.1	100.0	
	Total	56835	100.0	100.0		

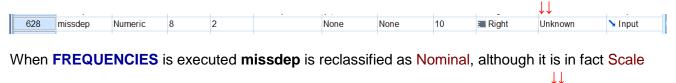
10

■ Right

🚜 Nominal

> Input

When the **COUNT** command is executed, the new variable **missdep** appears in Variable View on line 628, but in the **Level** column has been classified as **Unknown** because SPSS has not yet made a data pass.



None

None

SPSS has only encountered nine values for **missdep** and has wrongly assigned its measurement level. There are also 2 superfluous decimal places. A much better specification would be:

variable level missdep (scale).

Numeric

variable labels missdep 'Number of items with missing values in depression inventory'.

formats missdep (f2.0).

frequencies missdep.

628

missdep

missdep Number of items with missing values in depression inventory

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	0	53542	94.2	94.2	94.2
	1	2136	3.8	3.8	98.0
	2	641	1.1	1.1	99.1
	3	201	.4	.4	99.4
	4	88	.2	.2	99.6
	5	76	.1	.1	99.7
	6	26	.0	.0	99.8
	7	41	.1	.1	99.9
	8	84	.1	.1	100.0
	Total	56835	100.0	100.0	

It is important to take account of missing values in statistical analysis, but all JM uses them for here is to discover that because of a CAPI problem all respondents in Albania were missing for [cldgng]. (whether they felt they "could not get going?") It would have been far more interesting to tackle a substantive research question about the nature of depression and its constituent items, and to explore its relationship to demographic variables such as sex, age, class and education (possibly with reference to the literature and some comparison tables).

End of: 5.1.4 Selecting cases and using the **COUNT** command

Back to: MacInnes (2017)