

3.3 Multiple response

3.3.3.2 Analysing multiple response exercise 2 - More values than fields

Previous tutorial: [3.3.3.1 Analysing multiple response exercise 1 - One field per value](#)

Research question: How prejudiced were the British in 1986?¹

Exemplar: British Social Attitudes survey (1986 wave)

Raw data set: [bsa86.txt](#)² (3.2 mb)

SPSS saved file [bsa86b.sav](#)³ (1.98 mb)

Task 1: a) Read in raw data for (interviewer observed) ethnic group of respondent [Q.69]; whether R considers self to be prejudiced against other races; if so, which. [Q.70e and Q.70f].
b) Produce frequency counts for Q.69, Q.70e and all three variables in Q.70f.
c) Save your *.sps and *.sav files.

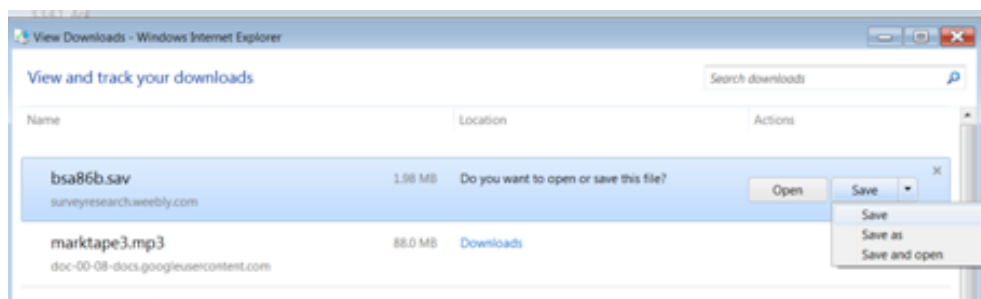
Task 2: a) Complete the data dictionary with missing values, variable labels and value labels.
b) Produce frequency counts for Q.69, Q.70e and all three variables in Q.70f.
c) Save your *.sps and *.sav files again.

Task 3: a) Define a multiple response group for the range of valid codes 01 - 10 for Q.70f
b) Produce a grouped frequency count for Q.70f.

¹ As the late Professor Sir Roger Jowell used to say, "The verb **to be prejudiced** has no 1st person singular!" We shall see!

² Obtained under licence from [UK Data Archive](#) (UKDA) as a *.dat file in **Times New Roman** proportional font: reformatted to **Courier New** fixed-width font to align the columns and can be downloaded and saved with **[CTRL]+S**.

³ [bsa86b.sav](#) is my version of the mother file, containing data for all 3100 respondents. This version has been modified from the original (by Prof John Curtice et al at Strathclyde). The variable names have all been changed from **mnemonic** to **positional**, but most of the **variable labels** and **value labels** are still in **UPPER CASE**. However, the question number has been moved to the beginning of the variable label to make it easier to navigate the file. As I work through the tutorials I am gradually changing variable and value labels to **Mixed case**. **MISSING VALUES** have been declared, but I have had to change some of them: you should **always check your variables** before launching into any analyses. Once downloaded (In Windows 7 only) click on **Save and open** and this file will be opened immediately in SPSS.



In [bsa86.txt](#) the data for a single case are spread over 23 x 80-column ASCII records, eg:

```

102050101031072187061      020512      02
1020502210322023112111121321  31225112112211113442113  05
1020503
1020504      12  012  2004  3121
1020505      030113121255111112  21221221  2113501  111111
10205060102051113111111  2111113102001  010400  1111122  411 2  5
1020507  5  11111833124225  2211121222222  23668656531112221230801030722
1020508222111 2  2  1 2  2  2  6  312
09
1020510
1020511
1020512
1020513
1020514      02  2  2
102051502115212501      22 011
1020516      9721  063010807327408  001010131 112112  103
1020517136010808323408  01981015102021  4  03  11 11310501870300486111
1020518
1020519
10205203332322343123443212222223323233211112212221222422244112111121222212212
10205213333334231232222244133223221211112232222222212222241422244222
1020522222224244222313222
1020523  00.6666 04 4 1 02 2 4 06 2 07 08 6 5 4 4 4 4 2 1 08 04 3 6 1 1 1 5

```

Extracts from questionnaire and technical report

Q.69 Ethnic group of respondent [interviewer observed]

69.	<u>INTERVIEWER: CODE FROM OBSERVATION FOR ALL RESPONDENTS</u>	(570)
	White/European	1
	Indian/East African Asian/Pakistani/Bangladeshi/Sri Lankan	2
	Black/African/West Indian	3
	Other (inc. Chinese)	4

Q70e How prejudiced against other races? [Filter question]

e)	How would you describe yourself: ... <u>READ OUT</u> as very prejudiced against people of other races, a little prejudiced, or - not prejudiced at all?	(575)	
	Other answer (SPECIFY) _____	1 } 2 } 3 } 7 }	f) Q.71

Q.70e: How would you describe yourself? [Single code in record 5 col 75]

a)	How would you describe yourself: ... <u>READ OUT</u> as very prejudiced against people of other races, a little prejudiced, or - not prejudiced at all?	(575)	
	Other answer (SPECIFY) <u>RECODE IF POSSIBLE OTHERWISE FINAL LIST WITH S.NO</u>	1 } 2 } 3 } 7 }	f) Q.71

[Open ended: post-coded, asked only if code 1 or 2 at Q70e]

Q70f Groups prejudiced against

IF 'VERY' OR ' A LITTLE' PREJUDICED	(576-80)	SPARE
	CARD 06	(606-07)
f) Against any race in particular? <u>PROBE FOR RACES AND RECORD.</u>	(608-09)	
<u>IF 'BLACK' OR 'COLOURED' MENTIONED, PROBE FOR WHETHER WEST</u>		
<u>INDIAN, ASIAN, GENERAL, ETC. RECORD VERBATIM EVERYTHING</u>		
<u>MENTIONED</u>	(610-11)	
	(612-13)	

Q.70f: Up to three verbatim replies, post-coded, 13 possible codes of which 10 valid (01 – 10) and three missing (97 - 99) but only three fields (cols 08-09, 10-11, 12-13 of record 6)

(If 575/1 or 2)	(576-80)	SPARE
IF 'VERY' OR ' A LITTLE' PREJUDICED	CARD 06	(606-07)
f) Against any race in particular? <u>PROBE FOR RACES AND RECORD.</u>	(608-09)	
<u>IF 'BLACK' OR 'COLOURED' MENTIONED, PROBE FOR WHETHER WEST</u>		
<u>INDIAN, ASIAN, GENERAL, ETC. RECORD VERBATIM EVERYTHING</u>		
<u>MENTIONED</u>	(610-11)	
	(612-13)	

01 - ASIANS	09 - OTHER SPECIFIED RACES / NATIONALITIES / COUNTRIES
02 - BLACKS	10 - AGAINST ALL RACES (OTHER THAN WHITE) NO RACE
03 - COLOURED	IN PARTICULAR (INCLUDES NO)
04 - PAKISTANIS	97 - OTHER ANSWER NOT FALLING INTO 01-10
05 - INDIANS	(FINAL LIST WITH 9/10) *
06 - SIKHS	98 - DONT' KNOW
07 - WEST INDIANS	99 - N/A
08 - AFRICANS	

* FINAL LISTINGS OF ALL ANSWERS WHERE REASONS ONLY WERE RECORDED

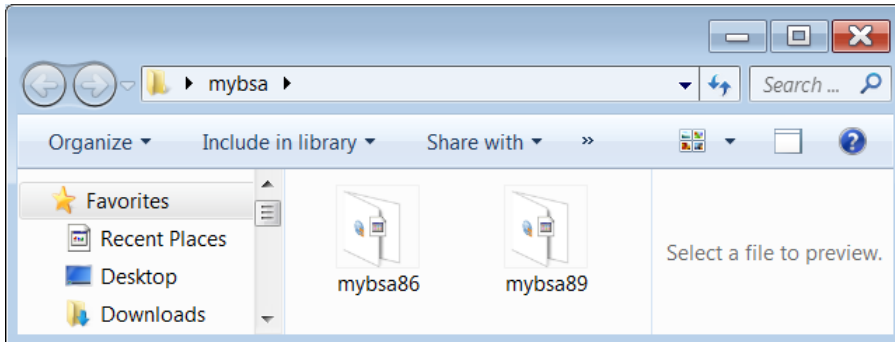
** ALSO LIST VERBATIM ANSWERS WHERE MORE THAN JUST RACE WAS MENTIONED (WITH CODES USED)

Five variables are to be read in: as usual a small table helps:

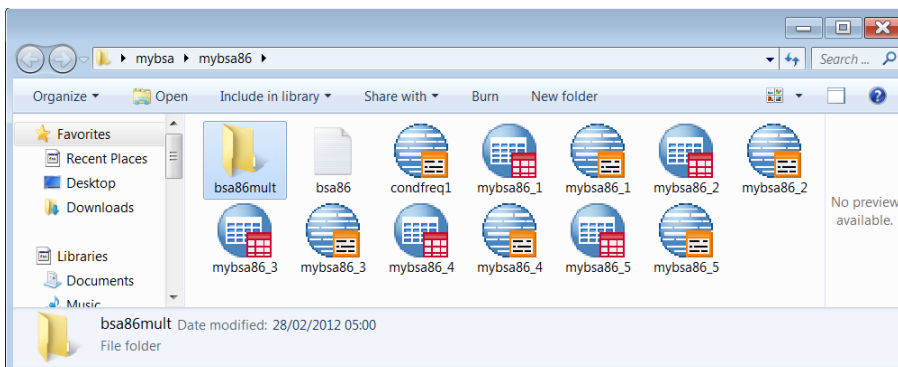
Question	Record	Column(s)	Positional name	Missing values	Label
Q.69	5	70	v570	8,9	Q.69 R's ethnic group (Interviewer observed)
Q.70e	5	75	v575	8,9	Q.70e How would you describe yourself..?
Q.70f [1 st]	6	8-9	v608	96-99	Q.70f: 1st group prejudiced against
Q.70f [2 nd]	6	10-11	v610	96-99	Q.70f: 2nd group prejudiced against
Q.70f [3 rd]	6	12-13	v612	96-99	Q.70f: 3rd group prejudiced against

- Task 1:**
- Read in raw data for (interviewer observed) ethnic group of respondent [Q.69]; whether R considers self to be prejudiced against other races; if so, which. [Q.70e and Q.70f].
 - Produce frequency counts for Q.69, Q.70e and all three variables in Q.70f.
 - Save your *.sps and *.sav files.

Step 1: Go to your desktop and open folder **mybsa**:



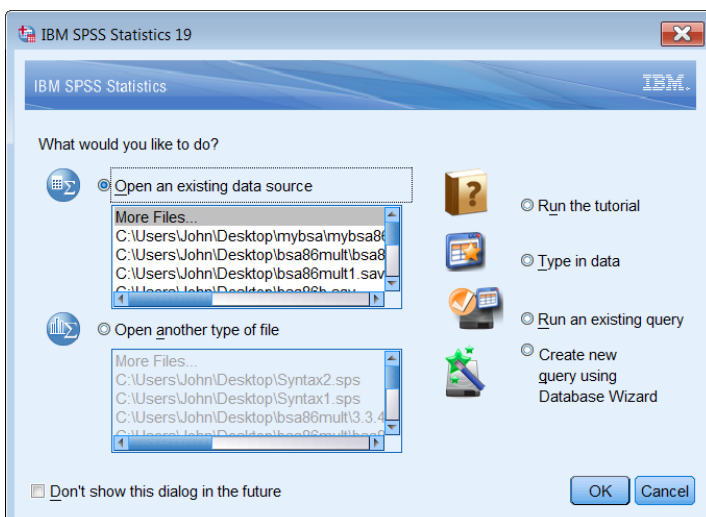
... and then open folder **mybsa86**:



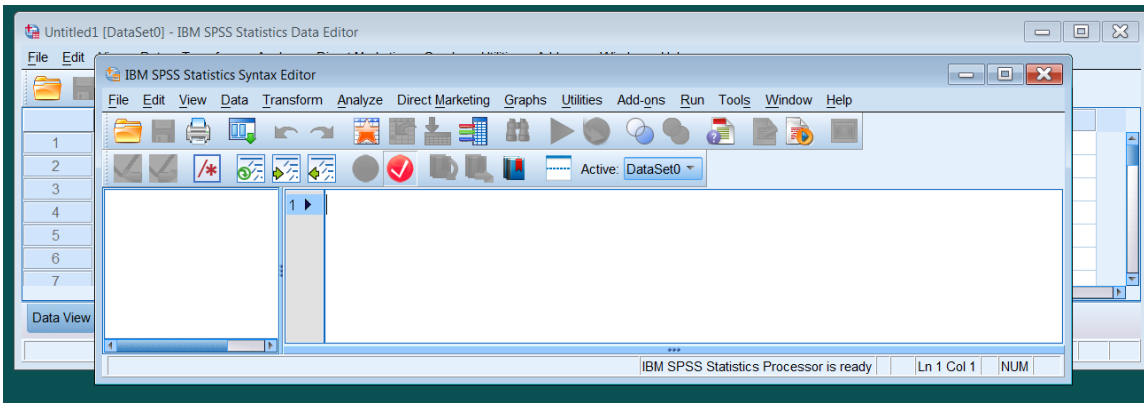
If you don't already have the raw data file **bsa86.txt** (second from left in top row) in your folder **mybsa86** you will need to copy the raw data file [bsa86.txt](#) into it from this site before you start.

You should also have a folder **bsa86mult** (top left corner) which you created in the previous tutorial to hold the files you create in this and subsequent multiple response exercises.

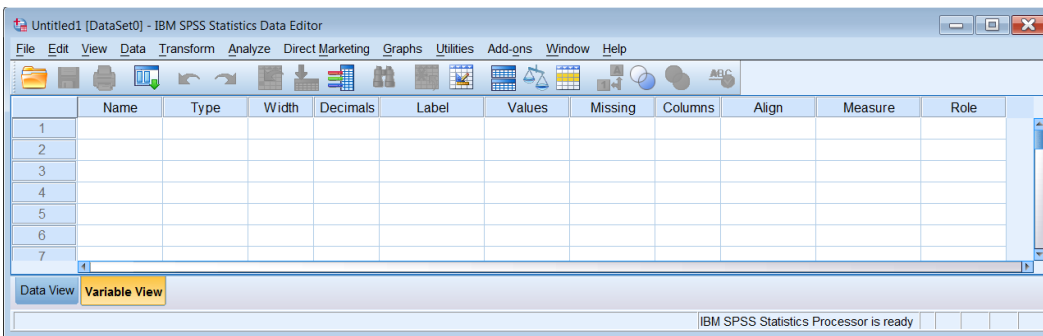
Step 2: Open SPSS



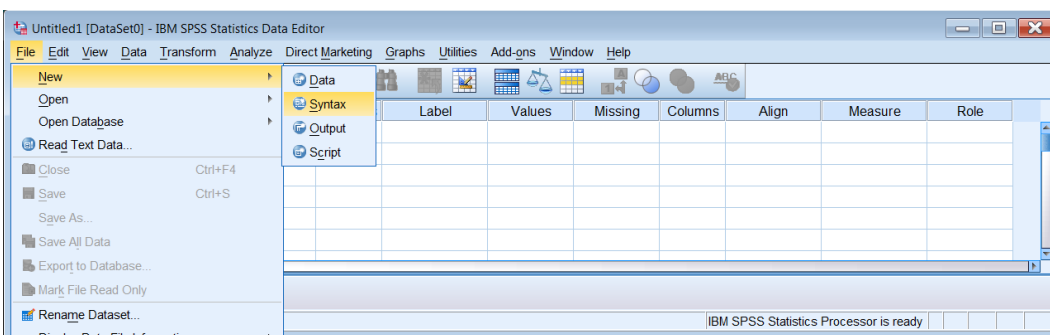
Click on **Cancel** to reveal a blank data editor superimposed by a blank syntax editor:



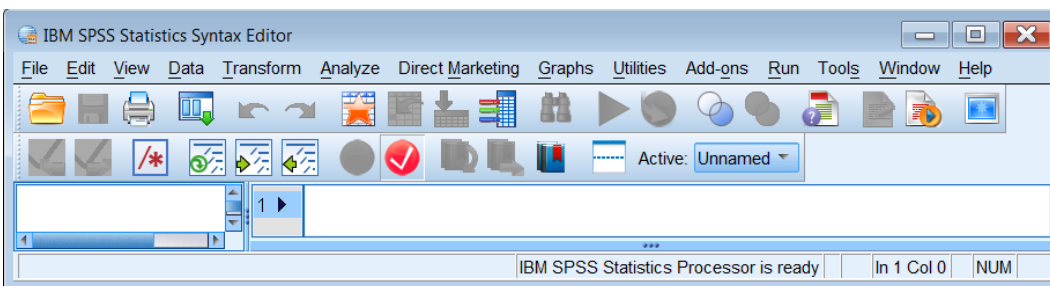
If your default SPSS settings don't automatically open the syntax editor, only a blank data editor will be displayed:



Click on **File** > **New** > **Syntax**



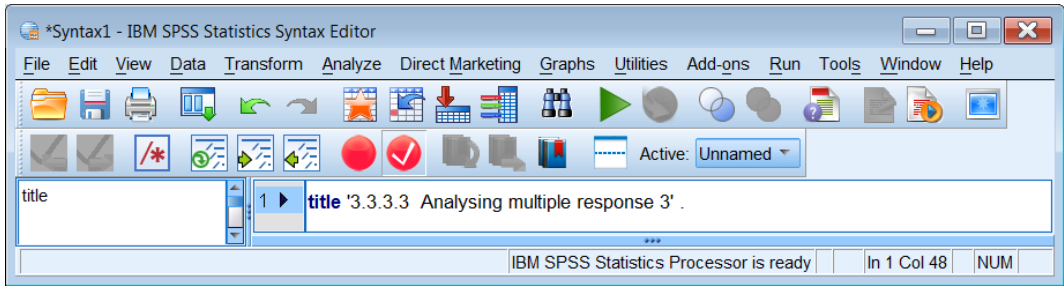
... to open a blank syntax editor:



Step 3: Read in the raw data

Give your job a title (Don't forget the primes or the full stop.)

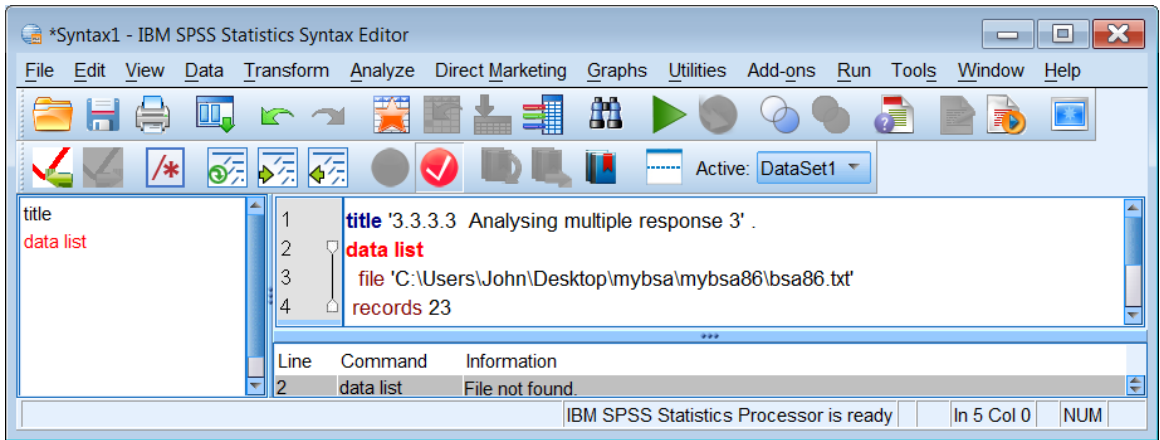
title '3.3.3.3 Analysing multiple response 3' .



Write out the first part of your **DATA LIST** command (inset subsequent lines by at least one space)
[NB: Your pathway for the data file will be different from mine]

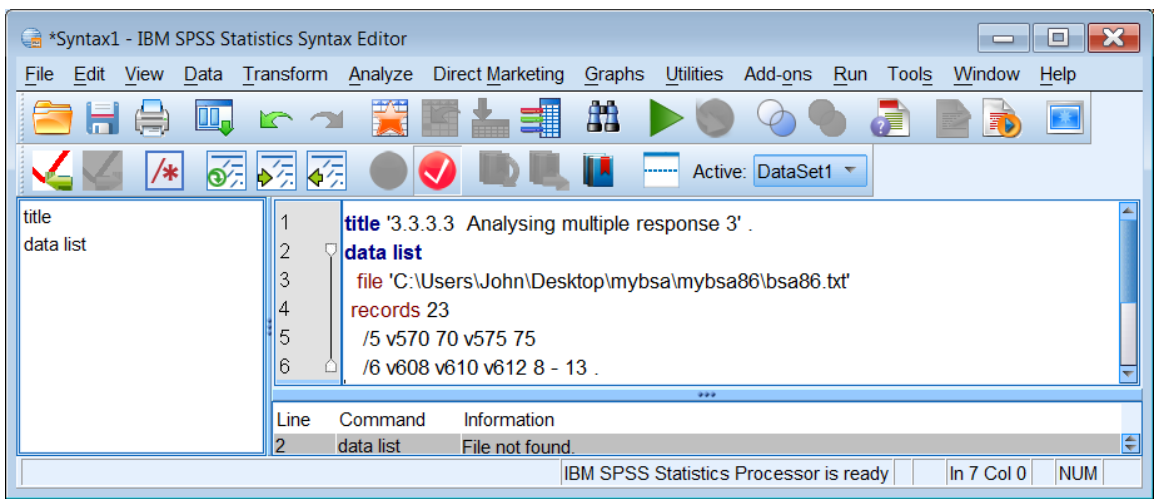
data list

file 'C:\Users\John\Desktop\mybsa\mybsa86\bsa86.txt'
records 23



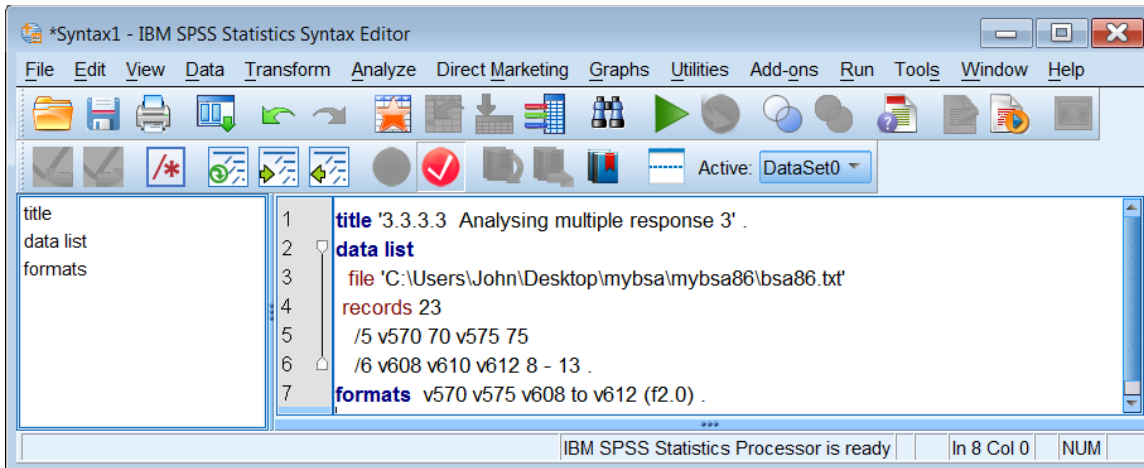
The **data list** command is still **red** because the command is not yet complete. Referring to the table above, carefully write out the rest of the data layout needed:

/5 v570 70 v575 75
/6 v608 v610 v612 8 - 13 .

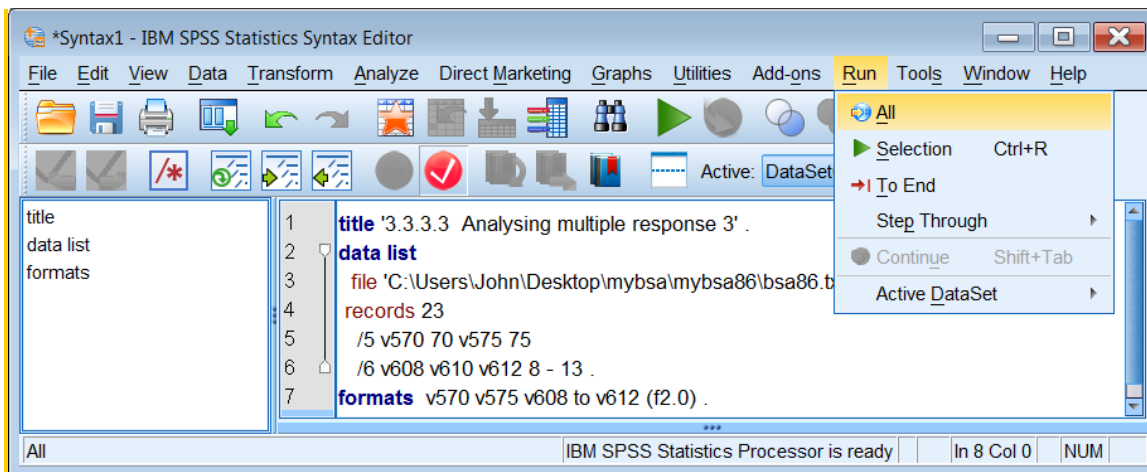


Now add a **formats** command to set all variables to type integer (no decimal points):

formats v570 v575 v608 to v612 (f2.0) .



Click on **Run > All**



The **DATA LIST** command produces the following output in the viewer:

```
title '3.3.3.3 Analysing multiple response 3' .

>> 3.3.3.3 Analysing multiple response 3

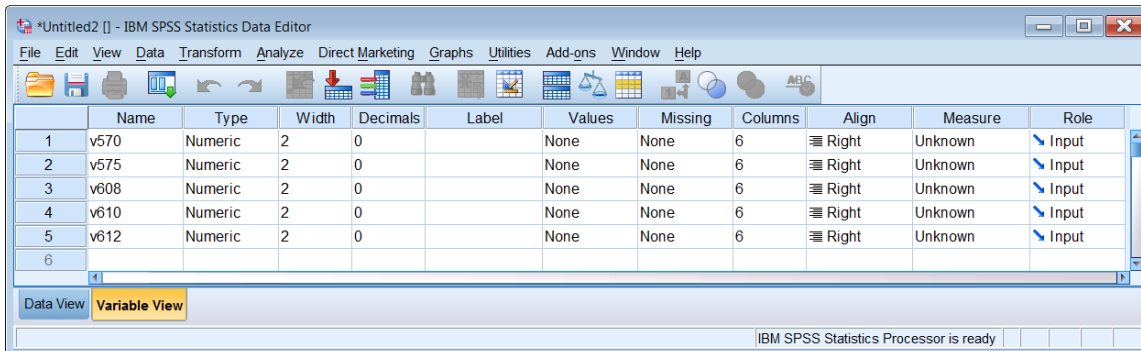
data list
  file 'C:\Users\John\Desktop\mybsa\mybsa86\bsa86.txt'
  records 23
    /5 v570 70 v575 75
    /6 v608 v610 v612 8 - 13 .

Data List will read 23 records from C:\Users\John\Desktop\mybsa\mybsa86\bsa86.txt

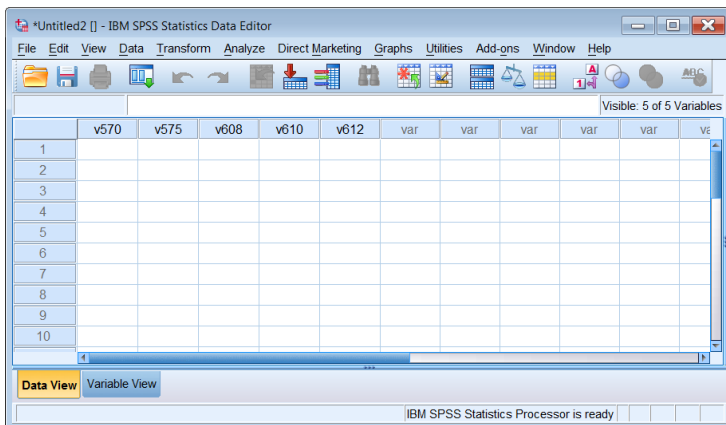
Variable      Rec   Start   End   Format
v570           5     70     70   F1.0
v575           5     75     75   F1.0
v608           6      8      9   F2.0
v610           6     10     11   F2.0
v612           6     12     13   F2.0
formats v570 v575 v608 to v612 (f2.0) .
```

As you can see, using **positional** rather than **mnemonic** variable names makes it much easier to check that the data for each variable have been read from the correct record(s) and column(s).

The data editor in **Variable View** has now filled up:



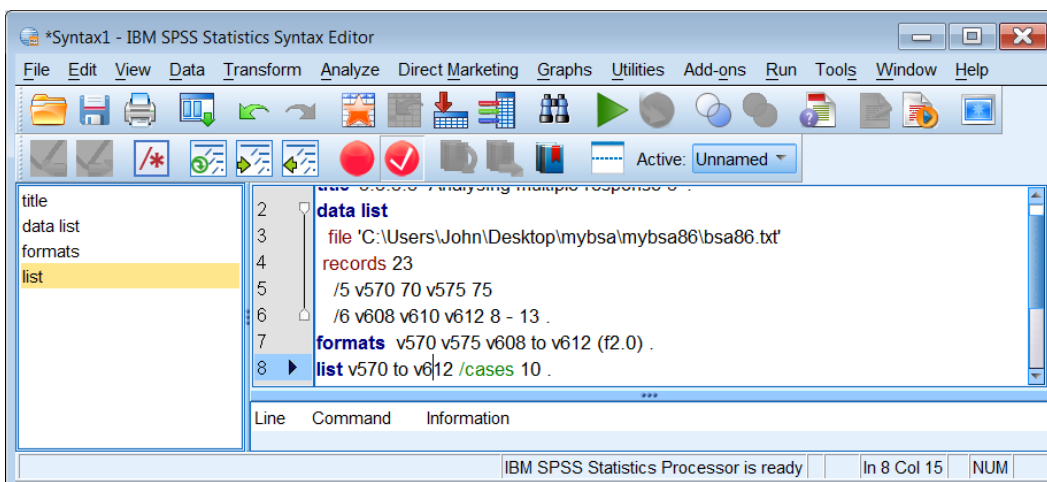
The title of the data editor has changed from ***Untitled1** to ***Untitled 2** (one of SPSS's little quirks). Levels of measurement are **Unknown** because the syntax so far is only a specification: SPSS has not yet made a pass through the data and the data editor in **Data View** will be empty.




Step 4: Check your data

As a first check, **LIST** the contents of the first 10 cases. [Command not available from menus]

list v570 to v612 / cases 10 .



Click on  to get a listing of the contents of the first 10 cases:

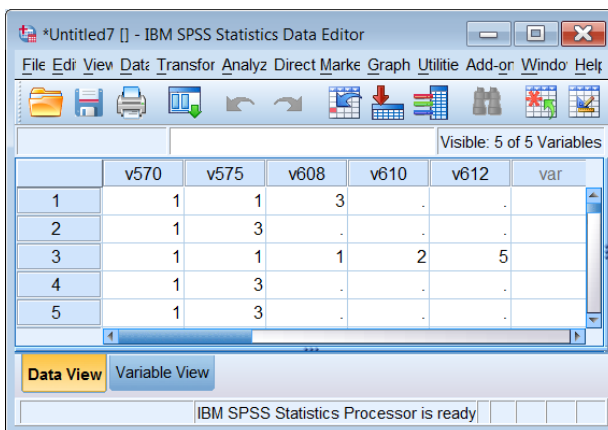
```

v570 v575 v608 v610 v612
1 1 3 . .
1 3 . . .
1 1 1 2 5
1 3 . . .
1 3 . . .
1 3 . . .
1 2 10 . .
1 2 9 . .
1 3 . . .
1 3 . . .

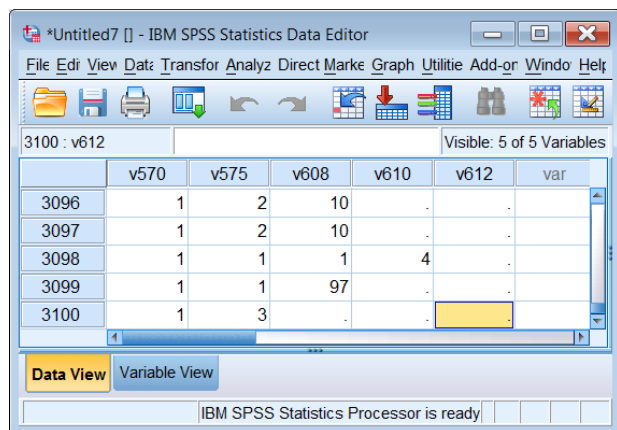
```

Number of cases read: 10 Number of cases listed: 10

The **list** command forces a pass through the data, so the data editor has now filled up in **Data View**



	v570	v575	v608	v610	v612	var
1	1	1	3	.	.	
2	1	3	.	.	.	
3	1	1	1	2	5	
4	1	3	.	.	.	
5	1	3	.	.	.	

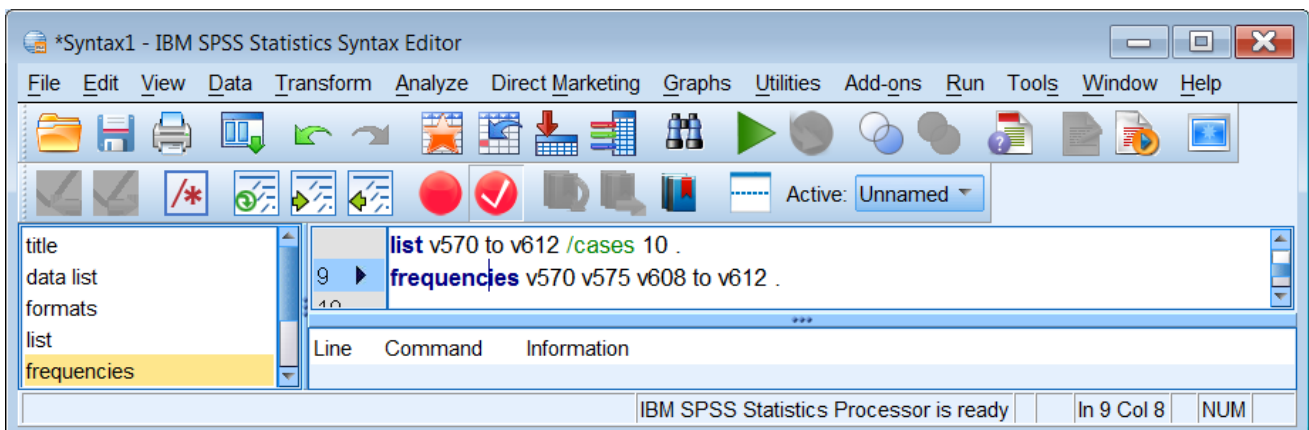


	v570	v575	v608	v610	v612	var
3096	1	2	10	.	.	
3097	1	2	10	.	.	
3098	1	1	1	4	.	
3099	1	1	97	.	.	
3100	1	3	.	.	.	

As a quick check you can scroll up and down to ensure that respondents coded **3** ("Not at all prejudiced") in **v575** don't have any data in **v608** to **v612** (Groups prejudiced against)

Step 5: Check your data again, this time to check which values are present for each variable.

frequencies v570 v575 v608 to v612 .



```

title
data list
formats
list
frequencies

```

```

list v570 to v612 /cases 10 .
frequencies v570 v575 v608 to v612 .

```

Line Command Information

Click on 

The **FREQUENCIES** command is repeated in the viewer:

```

frequencies v570 v575 v608 to v612 .
    
```

. . and the following tables are produced

Statistics

		v570	v575	v608	v610	v612
N	Valid	3100	3100	1115	159	36
	Missing	0	0	1985	2941	3064

v570

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	2976	96.0	96.0	96.0
	2	55	1.8	1.8	97.8
	3	49	1.6	1.6	99.4
	4	12	.4	.4	99.7
	9	8	.3	.3	100.0
Total		3100	100.0	100.0	

v575

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	116	3.7	3.7	3.7
	2	999	32.2	32.2	36.0
	3	1953	63.0	63.0	99.0
	7	20	.6	.6	99.6
	8	4	.1	.1	99.7
	9	8	.3	.3	100.0
Total		3100	100.0	100.0	

v608

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	153	4.9	13.7	13.7
	2	55	1.8	4.9	18.7
	3	44	1.4	3.9	22.6
	4	94	3.0	8.4	31.0
	5	22	.7	2.0	33.0
	6	1	.0	.1	33.1
	7	68	2.2	6.1	39.2
	8	11	.4	1.0	40.2
	9	27	.9	2.4	42.6
	10	567	18.3	50.9	93.5
	97	64	2.1	5.7	99.2
	98	2	.1	.2	99.4
	99	7	.2	.6	100.0
	Total		1115	36.0	100.0
Missing	System	1985	64.0		
Total		3100	100.0		

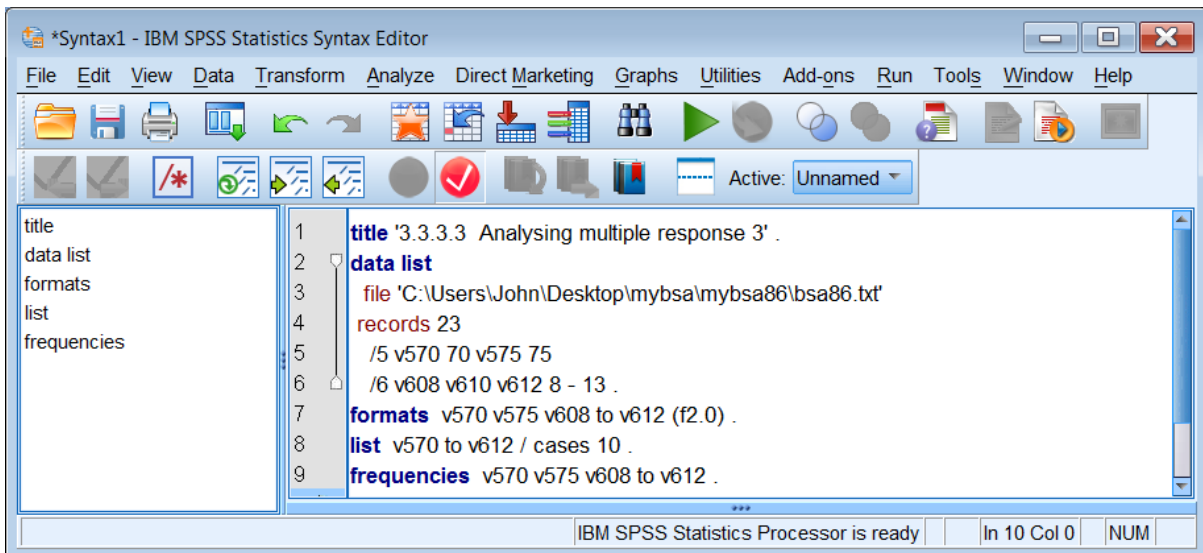
v610

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	16	.5	10.1	10.1
	2	25	.8	15.7	25.8
	3	7	.2	4.4	30.2
	4	30	1.0	18.9	49.1
	5	25	.8	15.7	64.8
	6	3	.1	1.9	66.7
	7	26	.8	16.4	83.0
	8	13	.4	8.2	91.2
	9	7	.2	4.4	95.6
	10	4	.1	2.5	98.1
	97	3	.1	1.9	100.0
	Total	159	5.1	100.0	
Missing	System	2941	94.9		
Total		3100	100.0		

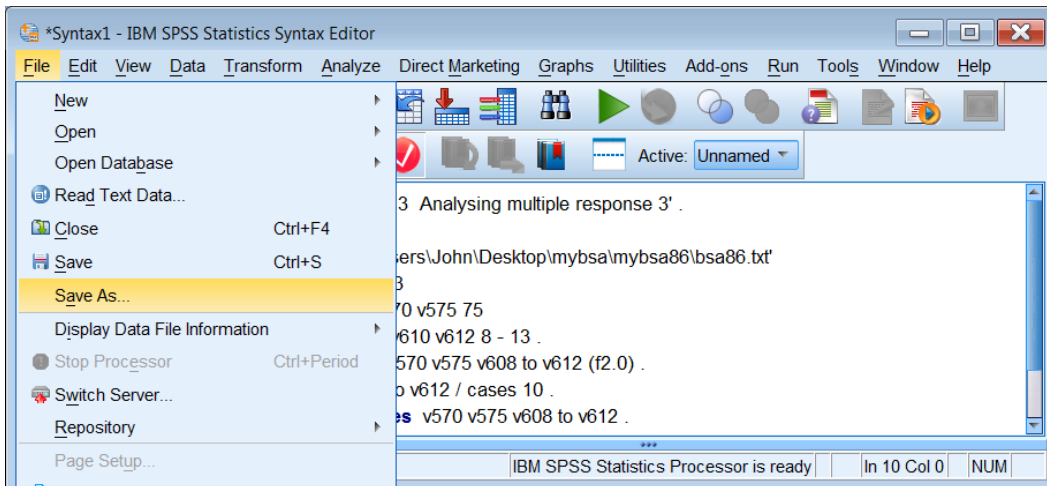
v612

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	1	4	.1	11.1	11.1	
	2	1	.0	2.8	13.9	
	3	2	.1	5.6	19.4	
	4	5	.2	13.9	33.3	
	5	4	.1	11.1	44.4	
	7	4	.1	11.1	55.6	
	8	4	.1	11.1	66.7	
	9	10	.3	27.8	94.4	
	10	2	.1	5.6	100.0	
		Total	36	1.2	100.0	
	Missing	System	3064	98.8		
Total		3100	100.0			

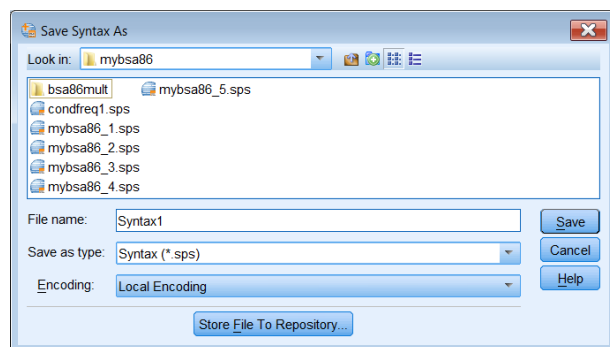
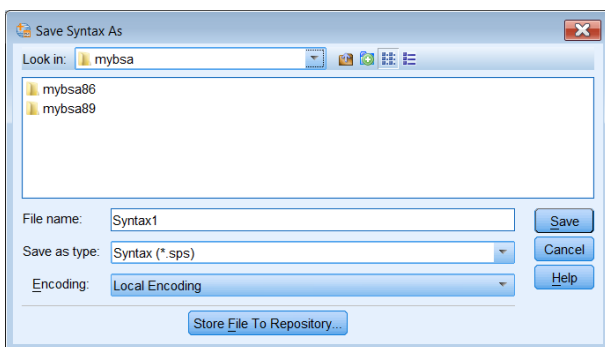
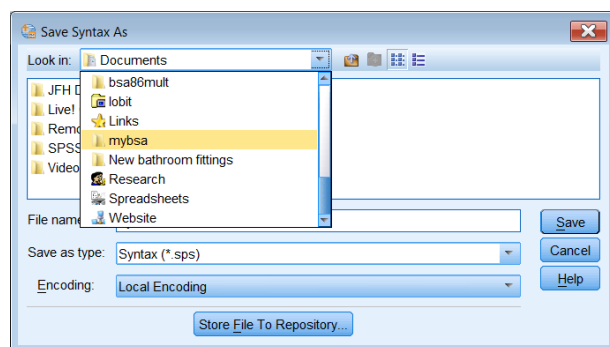
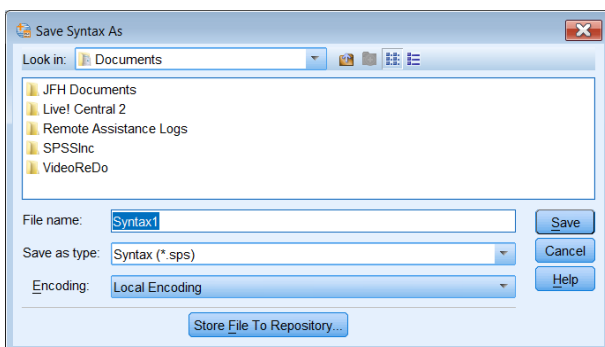
All variables have values in the expected ranges, so it's **good practice** to save the first edition of your work. The most important is the syntax editor as you can always run it again to generate the data editor. If you lose the syntax editor, you'll have to start again from the beginning!



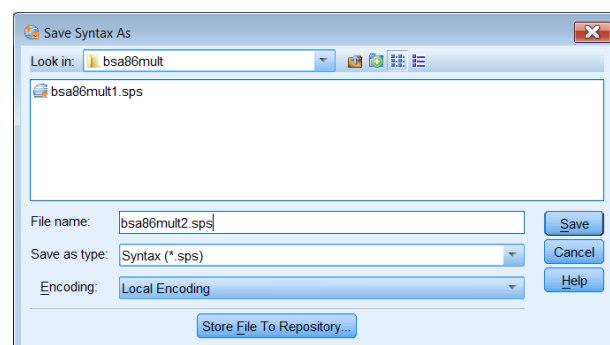
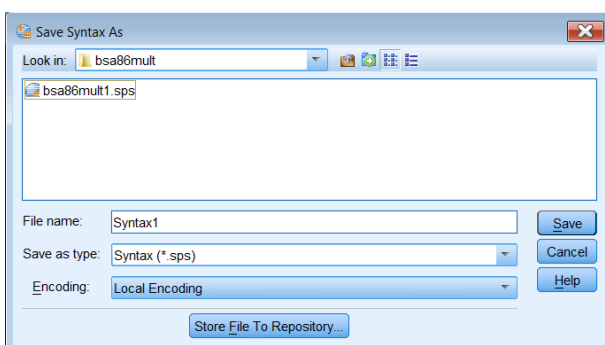
Click on **File** > **Save As ...**



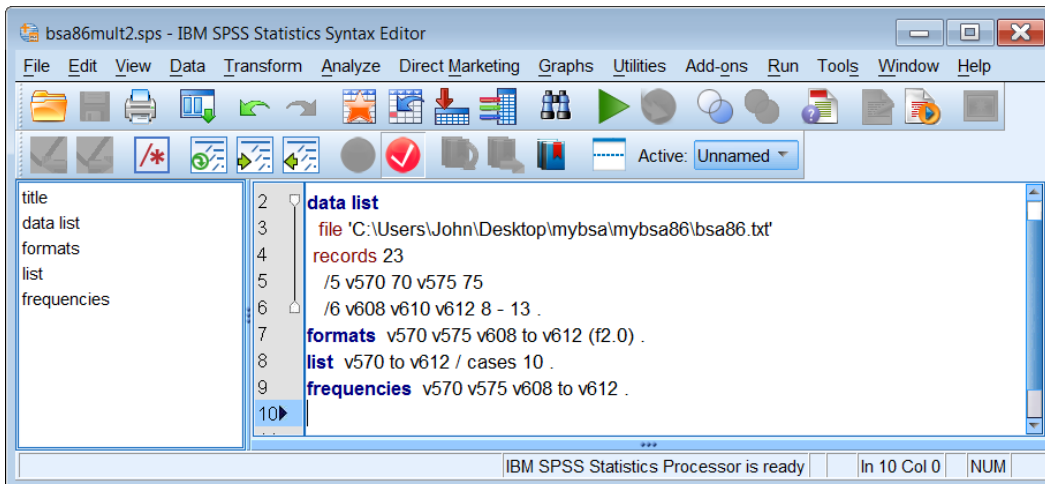
SPSS defaults to **Documents**, but we need folder **mybsa86mult**, so a bit of navigation is required:



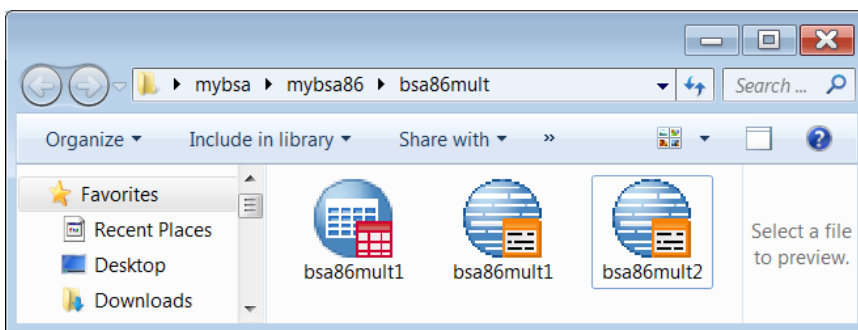
There is already a file **bsa86mult1.sps** which you created in the previous tutorial: there are no other files in the folder of type ***.sps**. In the **File name:** box, replace **Syntax1** with **mybsamult2.sps** and press **Save** :



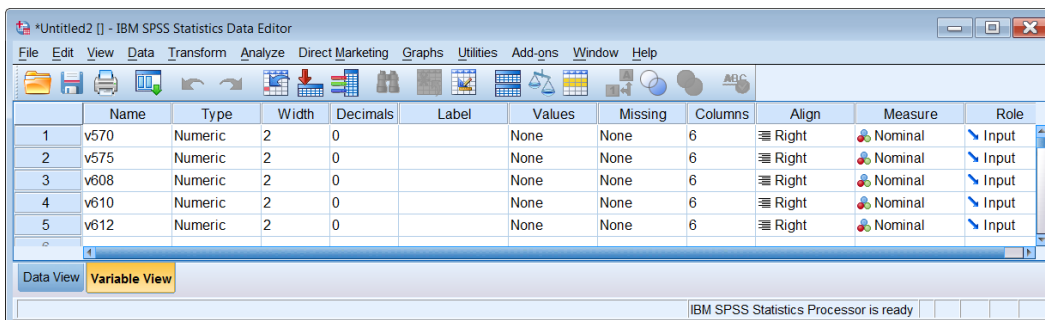
The syntax editor name changes from **Syntax1** to **bsamult2.sps**



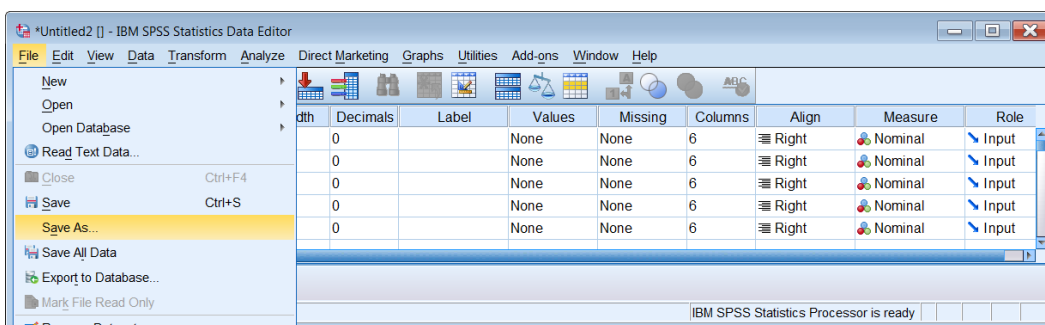
The new file **bsa86mult2.sps** is now displayed in folder **mybsa86mult**

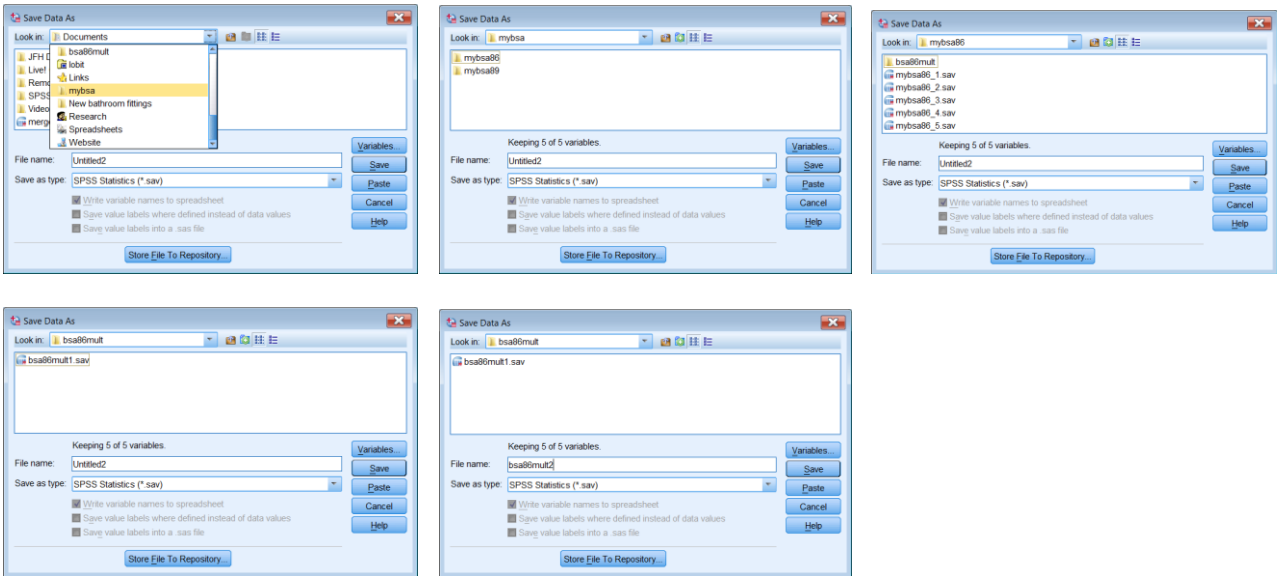


You don't actually need to save the data editor yet (it can always wait until the data dictionary is complete) but we'll do it anyway. Go back to the data editor and repeat the process for saving:

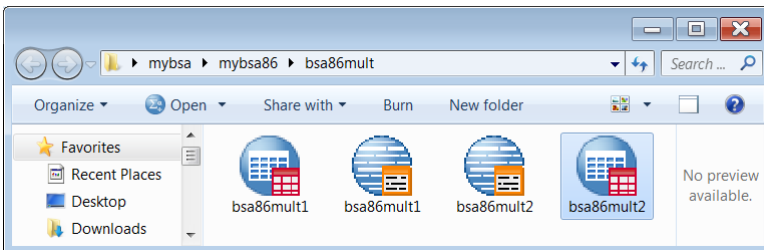
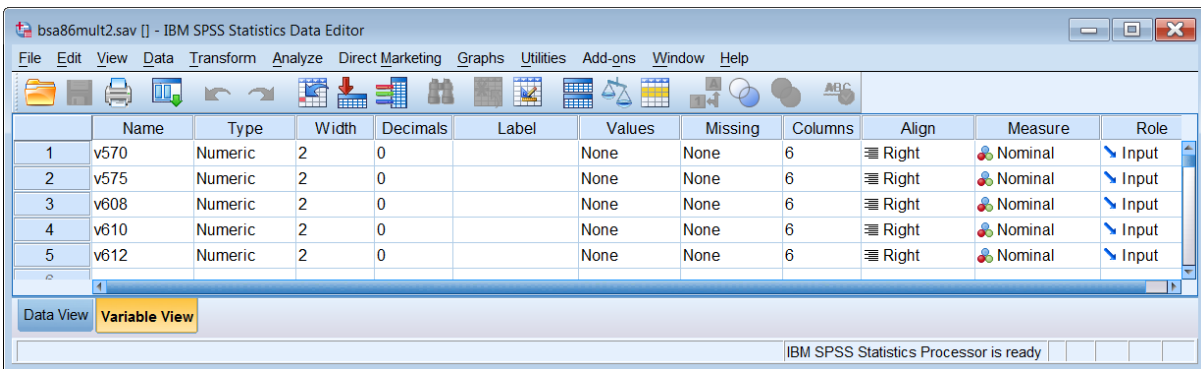


File > Save As ...





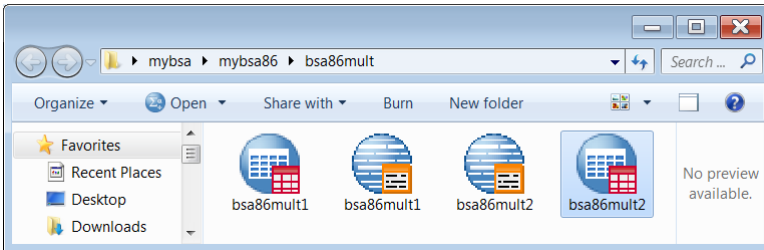
The name of the data editor changes from *Untitled2 to bsa86mult2.sav



That's the basic job done: your variables have been defined and the data read in. If you like, you can now close SPSS and take a break, otherwise skip to page 16.

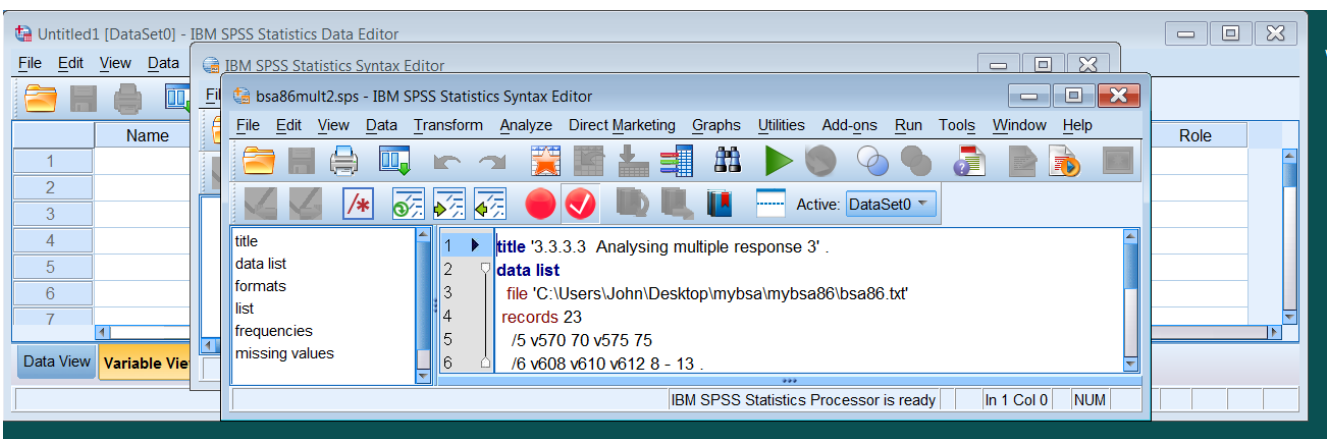
[This page is only relevant if you took a break]

When you come back, just re-open folder **mybsa86mult**

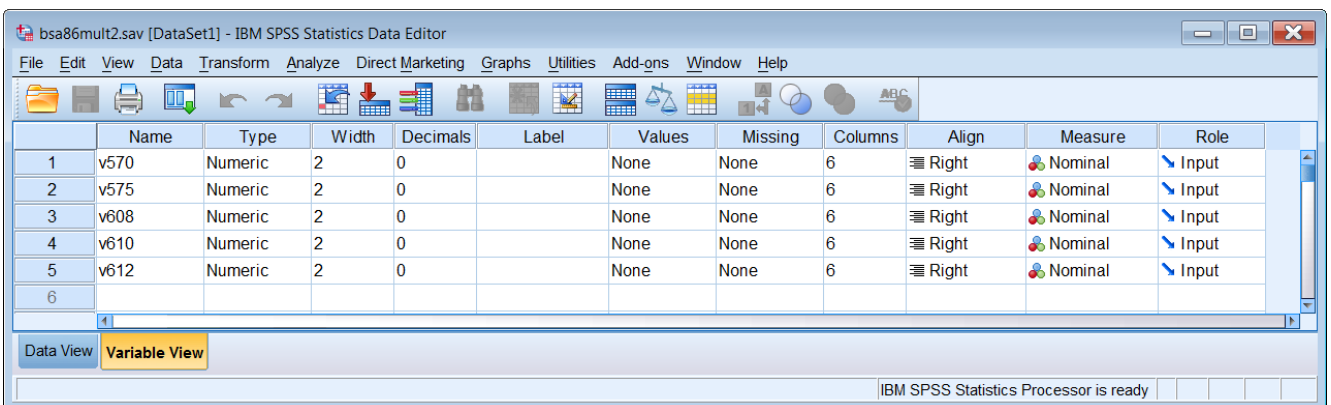


and double click on **bsamult2.sps**.

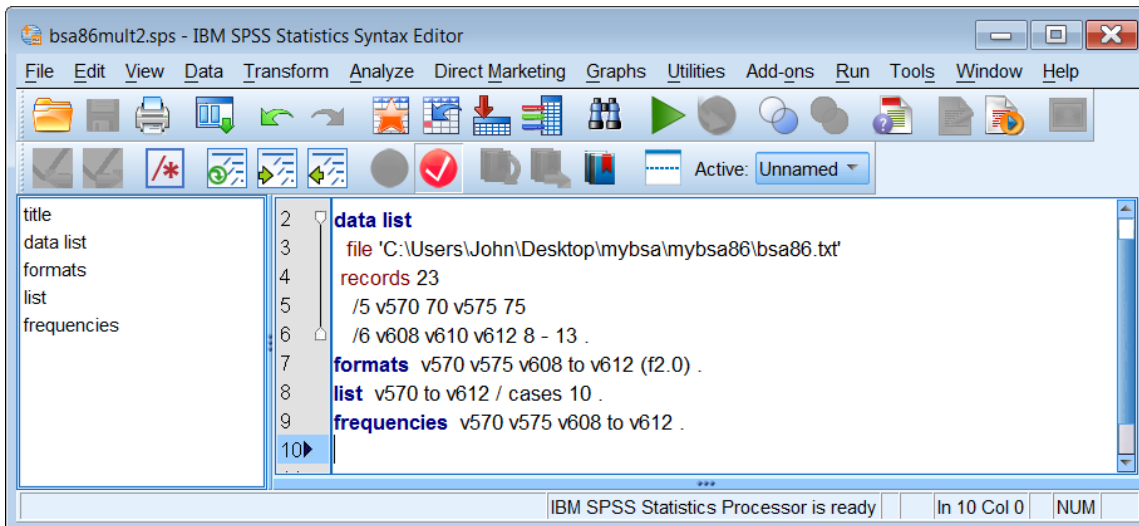
SPSS will open a new data editor and (if your settings are set for it) a new syntax editor, but your own **bsamult2.sps** file will be in front.



You'll also need to double click on **bsamult2.sav** otherwise SPSS will try to use the the blank data editor as the working file and you will get errors when it can't find the variable names!

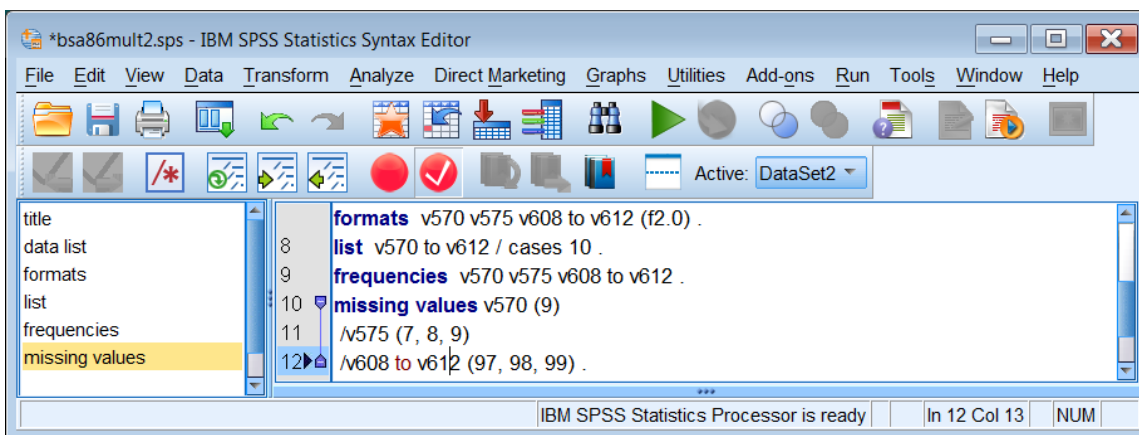


- Task 2:**
- Complete the data dictionary with missing values, variable labels and value labels.
 - Define a multiple response group for the range of valid codes 01 - 10 for Q.70f
 - Produce a grouped frequency count.

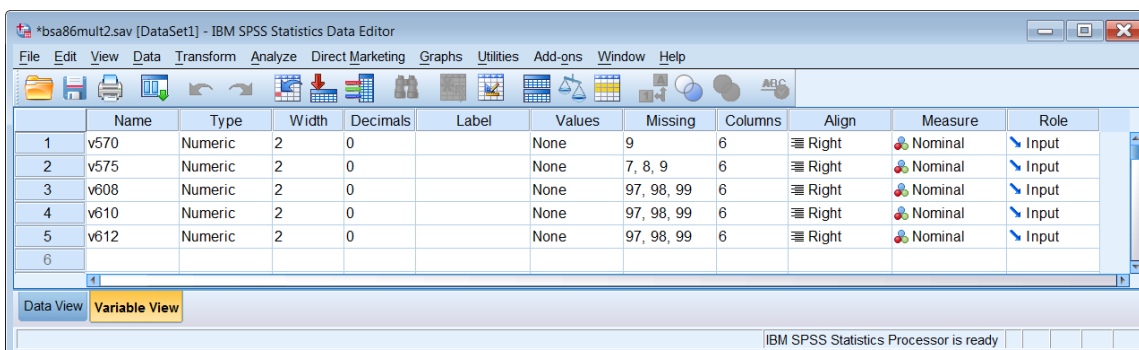


Step 7: Specify missing values

missing values v570 (9)
 /v575 (7, 8, 9)
 /v608 to v612 (97, 98, 99) .



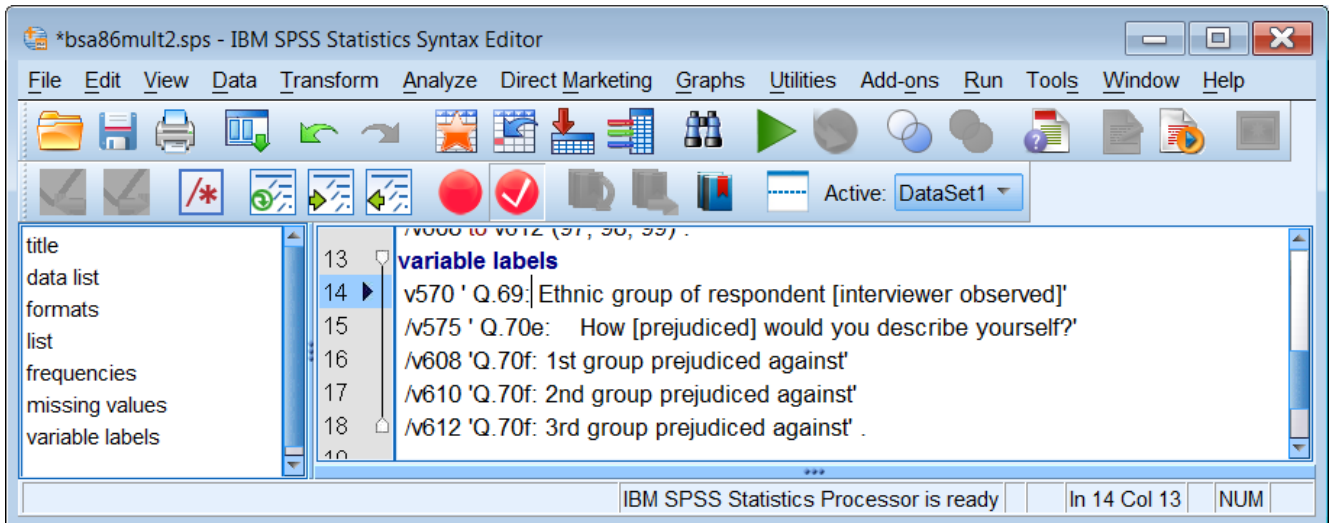
Click on 



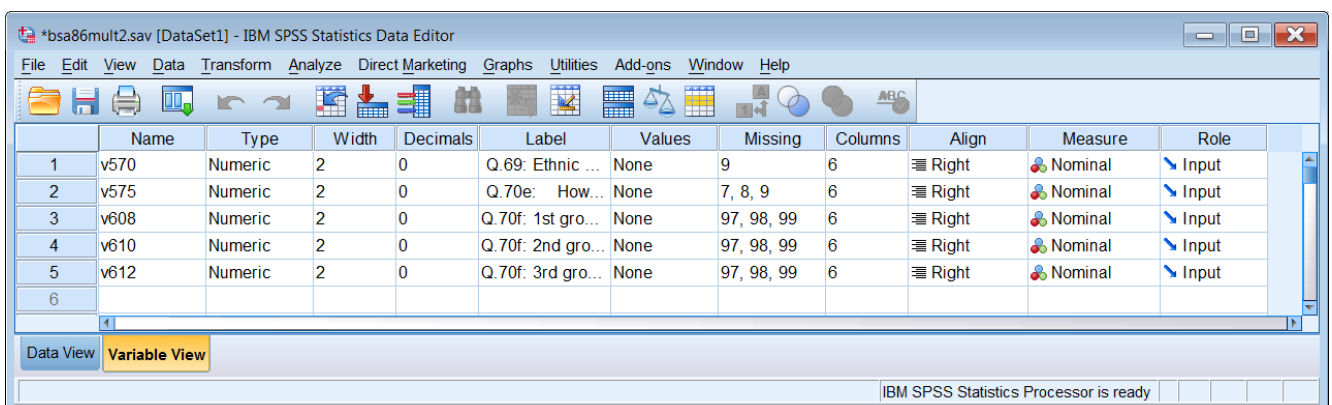
Step 8: Add variable labels

variable labels

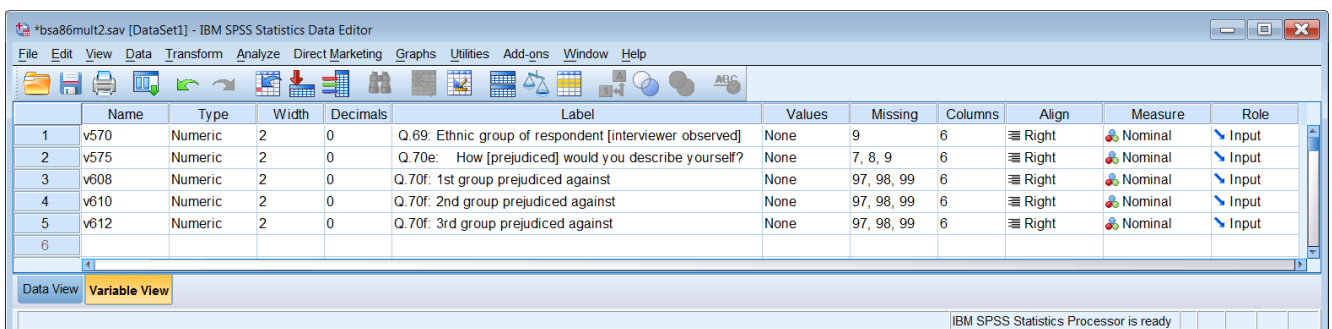
v570 ' Q.69 Ethnic group of respondent [interviewer observed]
 /v575 ' Q.70e: How [prejudiced] would you describe yourself?
 /v608 'Q.70f: 1st group prejudiced against'
 /v610 'Q.70f: 2nd group prejudiced against'
 /v612 'Q.70f: 3rd group prejudiced against' .



Click on 



Drag the **Label** | **Values** column separator to the right to see the full label:



Step 9: Add value labels

value labels

v575

- 1 'Very prejudiced'
- 2 'A little prejudiced'
- 3 'Not at all prejudiced'

/v570

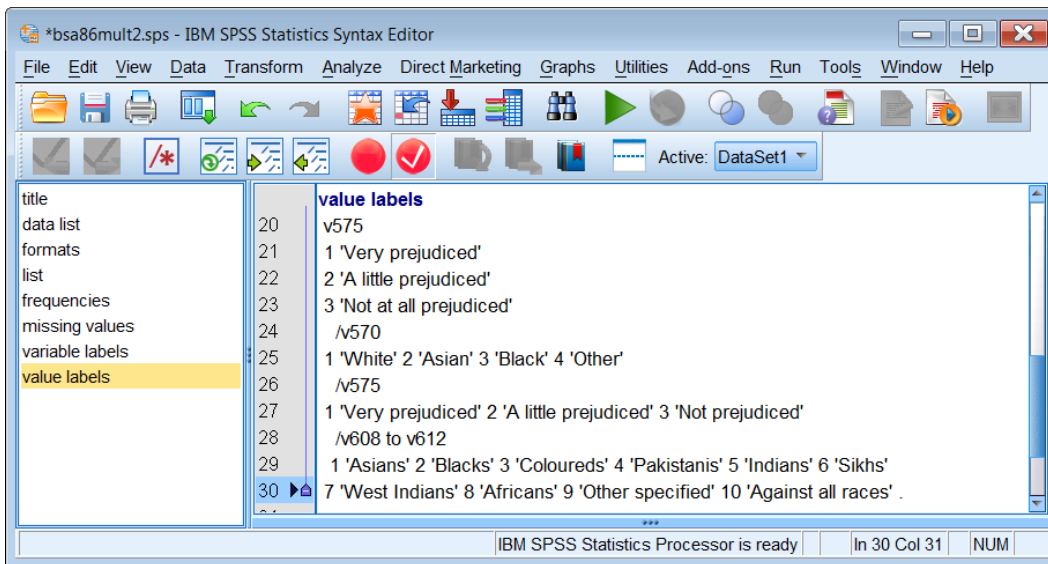
- 1 'White' 2 'Asian' 3 'Black' 4 'Other'


/v575

- 1 'Very prejudiced' 2 'A little prejudiced' 3 'Not prejudiced'

/v608 to v612


- 1 'Asians' 2 'Blacks' 3 'Coloureds' 4 'Pakistanis' 5 'Indians' 6 'Sikhs'
- 7 'West Indians' 8 'Africans' 9 'Other specified' 10 'Against all races' .

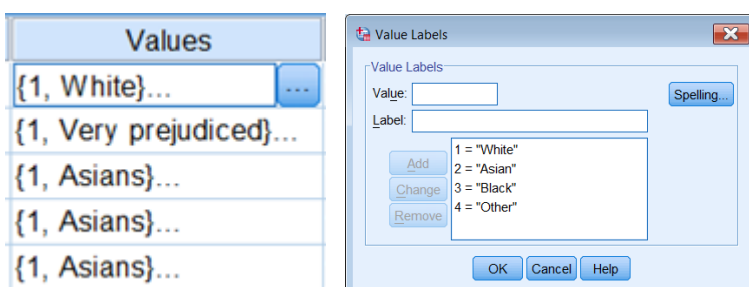


Click on 


Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1 v570	Numeric	2	0	Q.69: Ethnic group of respondent [interviewer observed]	{1, White}...	9	6	Right	Nominal	Input
2 v575	Numeric	2	0	Q.70e: How [prejudiced] would you describe yourself?	{1, Very prejudiced}...	7, 8, 9	6	Right	Nominal	Input
3 v608	Numeric	2	0	Q.70f: 1st group prejudiced against	{1, Asians}...	97, 98, 99	6	Right	Nominal	Input
4 v610	Numeric	2	0	Q.70f: 2nd group prejudiced against	{1, Asians}...	97, 98, 99	6	Right	Nominal	Input
5 v612	Numeric	2	0	Q.70f: 3rd group prejudiced against	{1, Asians}...	97, 98, 99	6	Right	Nominal	Input
6										

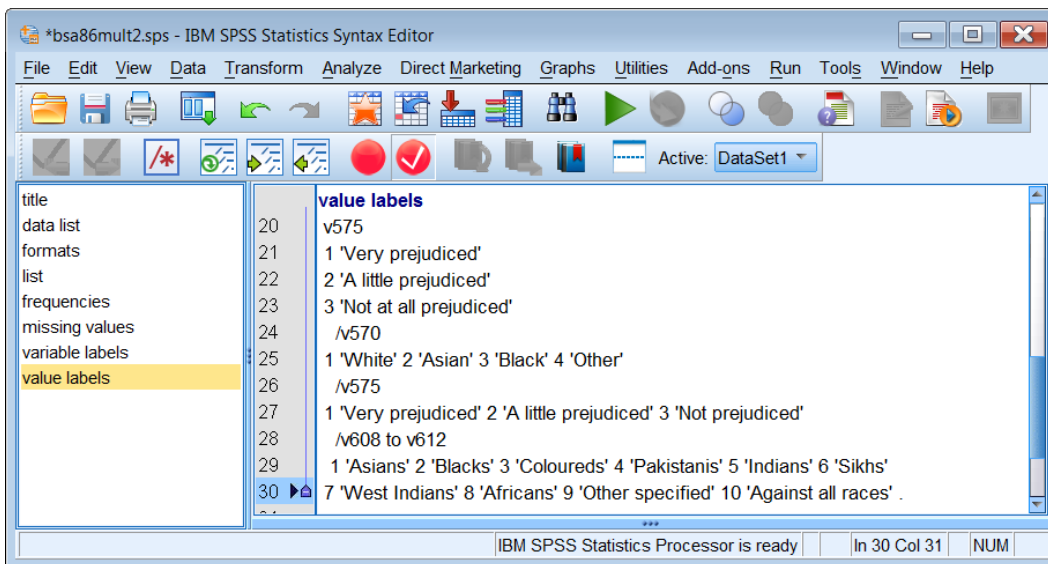
The screenshot shows the IBM SPSS Statistics Data Editor window in Variable View. The table above displays the variable list with columns for Name, Type, Width, Decimals, Label, Values, Missing, Columns, Align, Measure, and Role. The 'Values' column shows the value labels for each variable.

You can do quick checks on the value labels by clicking on a cell in the **Values** column and then on the blue square :



Step 10: Save your work again

This time you only have to click on  in the tool bar at the top of each editor. The files are instantly updated and saved in folder **bsa86mult**. You only have to do all the previous work once. The data editor is now fixed and can be used again, and again, and again.



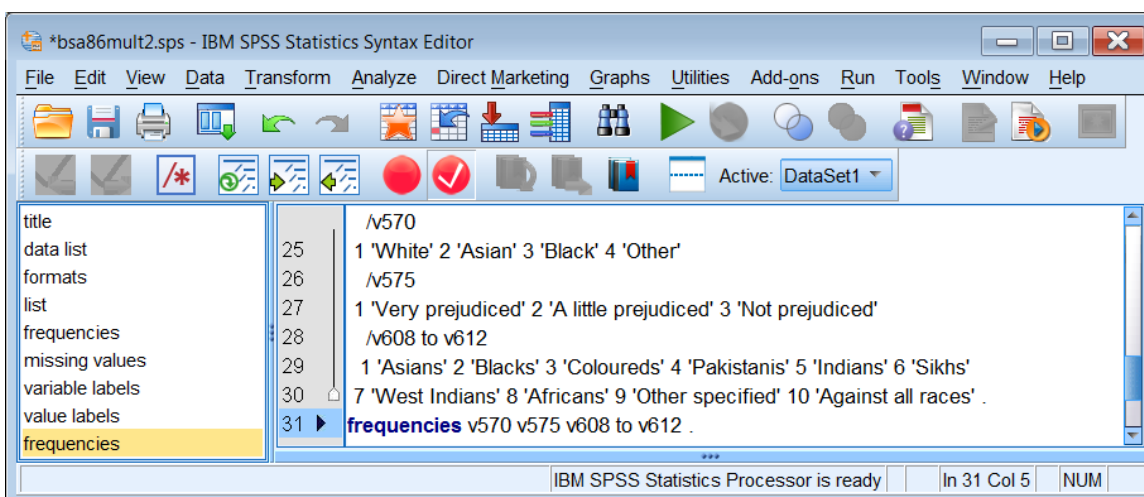
The screenshot shows the IBM SPSS Statistics Data Editor window in Variable View. The table below represents the data structure shown in the screenshot:

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1 v570	Numeric	2	0	Q.69: Ethnic group of respondent [interviewer observed]	{1, White}...	9	6	Right	Nominal	Input
2 v575	Numeric	2	0	Q.70e: How [prejudiced] would you describe yourself?	{1, Very prejudiced}...	7, 8, 9	6	Right	Nominal	Input
3 v608	Numeric	2	0	Q.70f: 1st group prejudiced against	{1, Asians}...	97, 98, 99	6	Right	Nominal	Input
4 v610	Numeric	2	0	Q.70f: 2nd group prejudiced against	{1, Asians}...	97, 98, 99	6	Right	Nominal	Input
5 v612	Numeric	2	0	Q.70f: 3rd group prejudiced against	{1, Asians}...	97, 98, 99	6	Right	Nominal	Input
6										

The status bar at the bottom indicates 'IBM SPSS Statistics Processor is ready'.

Step 11: Now run the frequency count again

frequencies v570 v575 v608 to v612 .



Click on 

Statistics

		Q.69 Ethnic group of respondent [interviewer observed]	Q.70e: How [prejudiced] would you describe yourself?	Q.70f: 1st group prejudiced against	Q.70f: 2nd group prejudiced against	Q.70f: 3rd group prejudiced against
N	Valid	3092	3068	1042	156	36
	Missing	8	32	2058	2944	3064

Q.69 Ethnic group of respondent [interviewer observed]

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	White	2976	96.0	96.2	96.2
	Asian	55	1.8	1.8	98.0
	Black	49	1.6	1.6	99.6
	Other	12	.4	.4	100.0
	Total	3092	99.7	100.0	
Missing	9	8	.3		
Total		3100	100.0		

Q.70e: How [prejudiced] would you describe yourself?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very prejudiced	116	3.7	3.8	3.8
	A little prejudiced	999	32.2	32.6	36.3
	Not prejudiced	1953	63.0	63.7	100.0
	Total	3068	99.0	100.0	
Missing	7	20	.6		
	8	4	.1		
	9	8	.3		
	Total	32	1.0		
Total		3100	100.0		

Q.70f: 1st group prejudiced against

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	Asians	153	4.9	14.7	14.7	
	Blacks	55	1.8	5.3	20.0	
	Coloureds	44	1.4	4.2	24.2	
	Pakistanis	94	3.0	9.0	33.2	
	Indians	22	.7	2.1	35.3	
	Sikhs	1	.0	.1	35.4	
	West Indians	68	2.2	6.5	41.9	
	Africans	11	.4	1.1	43.0	
	Other specified	27	.9	2.6	45.6	
	Against all races	567	18.3	54.4	100.0	
	Total	1042	33.6	100.0		
	Missing	97	64	2.1		
		98	2	.1		
99		7	.2			
System		1985	64.0			
Total		2058	66.4			
Total		3100	100.0			

Q.70f: 2nd group prejudiced against

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Asians	16	.5	10.3	10.3
	Blacks	25	.8	16.0	26.3
	Coloureds	7	.2	4.5	30.8
	Pakistanis	30	1.0	19.2	50.0
	Indians	25	.8	16.0	66.0
	Sikhs	3	.1	1.9	67.9
	West Indians	26	.8	16.7	84.6
	Africans	13	.4	8.3	92.9
	Other specified	7	.2	4.5	97.4
	Against all races	4	.1	2.6	100.0
	Total	156	5.0	100.0	
Missing	97	3	.1		
	System	2941	94.9		
	Total	2944	95.0		
Total		3100	100.0		

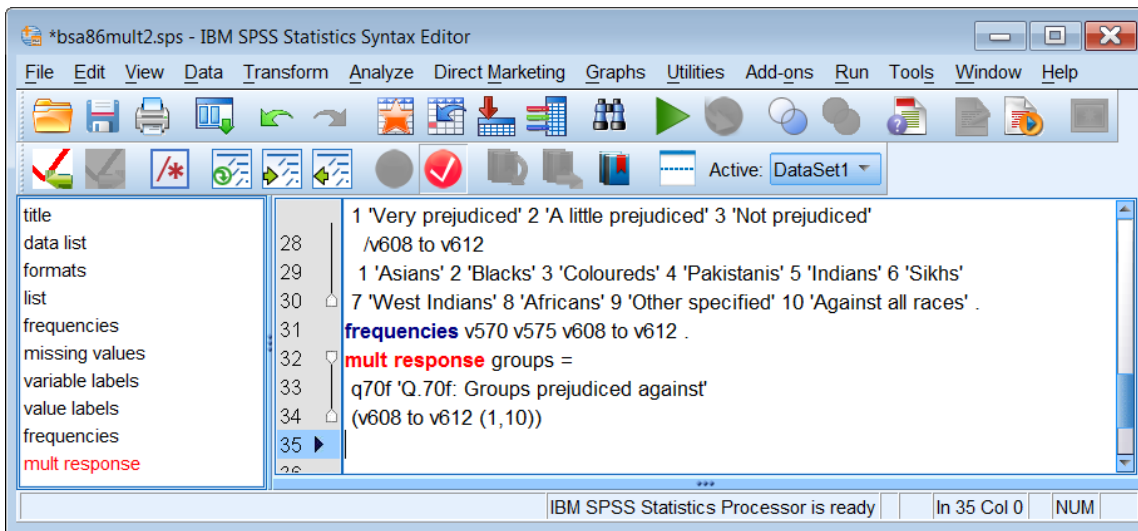
Q.70f: 3rd group prejudiced against

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Asians	4	.1	11.1	11.1
	Blacks	1	.0	2.8	13.9
	Coloureds	2	.1	5.6	19.4
	Pakistanis	5	.2	13.9	33.3
	Indians	4	.1	11.1	44.4
	West Indians	4	.1	11.1	55.6
	Africans	4	.1	11.1	66.7
	Other specified	10	.3	27.8	94.4
	Against all races	2	.1	5.6	100.0
	Total	36	1.2	100.0	
Missing	System	3064	98.8		
	Total	3100	100.0		

- Task 3:** a) Define a multiple response group for the range of valid codes 01 - 10 for Q.70f
 b) Produce a grouped frequency count for Q.70f.

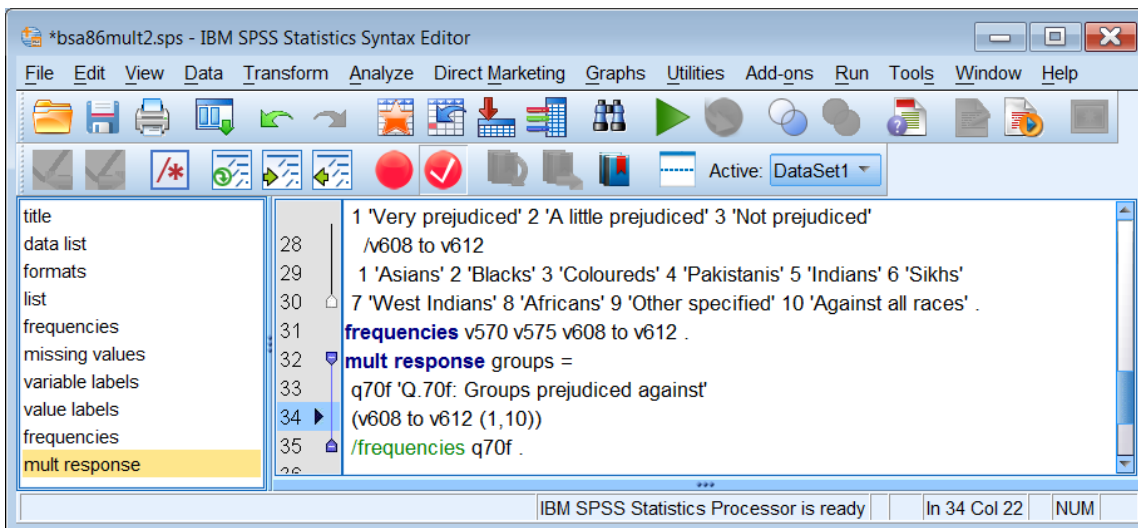
Step 11: Define your **mult response group variable** by giving it a group name and label and by specifying the list of variables to scan together with the lower and upper limits of the range of values to be tabulated:


mult response groups =
q70f 'Q.70f: Groups prejudiced against'
(v608 to v612 (1,10))



mult response is in red because the command is not yet complete. If you try to run the job, you will get an error message. We need to specify what analysis we want as well, in this case a group frequency count. You can't use the ordinary FREQUENCIES command, you have to specify the frequencies within the mult response command, as a sub-command preceded by a forward slash (and inset by at least one space if it's on a separate line):

/frequencies q70f .



Click on 

Case Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
q70f ^a	1043	33.6%	2057	66.4%	3100	100.0%

a. Group

q70f Frequencies

		Responses		Percent of Cases
		N	Percent	
Q.70f: Groups prejudiced against ^a	Asians	173	14.0%	16.6%
	Blacks	81	6.6%	7.8%
	Coloureds	53	4.3%	5.1%
	Pakistanis	129	10.5%	12.4%
	Indians	51	4.1%	4.9%
	Sikhs	4	.3%	.4%
	West Indians	98	7.9%	9.4%
	Africans	28	2.3%	2.7%
	Other specified	44	3.6%	4.2%
	Against all races	573	46.4%	54.9%
Total	1234	100.0%	118.3%	

a. Group

is the grouped frequency table for the group variable Q.70f. The group variable **cannot be saved**. Group variables have to be recreated every time you need to use them, but you don't have to write out the syntax each time: you can save the specifications into another syntax file and then copy them back next time you want to use them

End of tutorial

Next tutorial: 3.3.3.3 Analysing multiple response exercise 3 - More replies than values

[In preparation]

Using question Q.125 about welfare benefits received, this exercise demonstrates how to handle a question in which the same code values 1 - 6 are repeated within a set of 12 responses to the same question (but in different fields). This involves recoding the second set of values, but needs great care when dealing with missing values.