

Block 3: Analysing two variables 3.3 Multiple response

3.3.3 Analysing multiple response

[Draft only: 28 Feb 2012]

Exercise 3.3.3.1: Single question: separate field allocated for each code

Previous tutorial: [3.3.3 Multiple response questions in the 1986 British Social Attitudes survey](#)

Exemplar: British Social Attitudes survey (1986 wave)

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

Question: **Educational qualifications obtained** [Q. 117 (version B)]

ASK ALL CARD CC		(1565)	
117.a)	Have you passed any exams or got any of the qualifications on this card?	Yes	1
		No, none	2
	IF YES (CODE 1 AT a)		
b)	Which ones? Any others?	CSE Grades 2-5	01 (1566-7)
	CODE ALL THAT APPLY		
		CSE Grade 1 GCE 'O' level School certificate Scottish (SCE) Ordinary	02 (1568-9)
		GCE 'A' level/'S' level Higher certificate Matriculation Scottish (SCE) Higher	03 (1570-1)
		Overseas School Leaving Exam/Certificate	04 (1572-3)
		Recognised trade apprenticeship completed	05 (1574-5)
		RSA/other clerical, commercial qualification	06 (1576-7)
		City & Guilds Certificate - Craft/Intermediate/Ordinary/Part I	07 (1578-9)
		City & Guilds Certificate - Advanced/Final/Part II or Part III	08 (1608-9)
		City & Guilds Certificate - Full technological	09 (1610-1)
		BEC/TEC General/Ordinary National Certificate (ONC) or Diploma (OND)	10 (1612-3)
		BEC/TEC Higher/Higher National Certificate (HNC) or Diploma (HND)	11 (1614-5)
		Teachers training qualification	12 (1616-7)
		Nursing qualification	13 (1618-9)
		Other technical or business qualification/certificate	14 (1620-1)
		University or CNAA degree or diploma	15 (1622-3)
	Other (SPECIFY)		97 (1624-5)

**Task 1:** Read in raw data for educational and other qualifications [Q.117a, Q.117b] and list the values of all variables for the first 10 cases.

**Task 2:** Produce simple frequency counts for all variables

**Task 3:** Add variable and value labels

**Task 4:** Define a multiple response group for the range of valid codes 01 – 15 in Q.117b and produce a frequency count for the group variable.

**Task 1:** Read in raw data for educational and other qualifications [Q.117a, Q.117b] and list the values of all variables for the first 10 cases.

Q.117a: Have you passed exams or got any other qualifications?  
 [Filter question] coded **1** = Yes or **2** = No in column **65** of record **15**

Q.117b: [If YES]  
 Which ones? Any others? [precoded with showcard **CC**]

There are 16 possible codes of which 15 are valid (**01** to **15**) each in fixed location, one two-column field per code (cols 66-67, 68-69 ... 78-79 of record 15 and columns 08-09,10-11 ... 22-23 of record 16) plus missing code **97** in cols 24-25 of record 16. This coding scheme takes up 16 x 2-column fields = 32 columns.

**[Extract of 3 cases from raw data: records 15 and 16]**

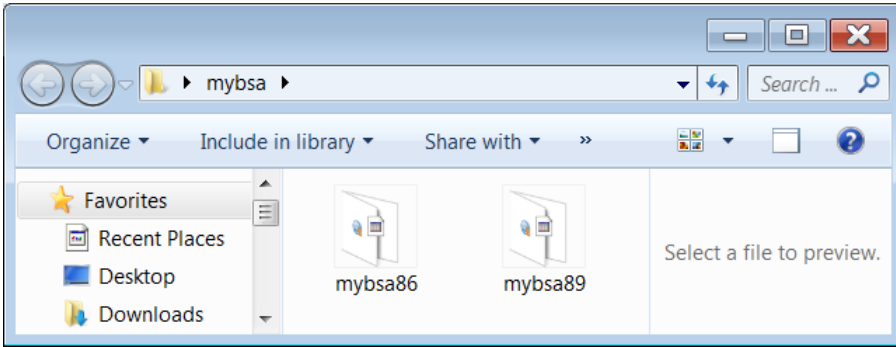
10192	<b>15</b>	0312601163111362						22201	<b>2</b>	
10192	<b>16</b>		1		999021117998999	99999	933			07
10203	<b>15</b>	0142801						2	03	<b>2</b>
10203	<b>16</b>				999021117998999	99999	933			
10080	<b>15</b>	05123191371	1022	1032	2102			22202	<b>10102</b>	
10080	<b>16</b>		1	1	045040805318302	0005101132222222				05

The first two cases have no qualifications (code **2** in col 65): the third case (code **1** in col 65) has two qualifications (code **01** in columns 66-67 and **02** in columns 68-69).

As usual it helps to have a table:

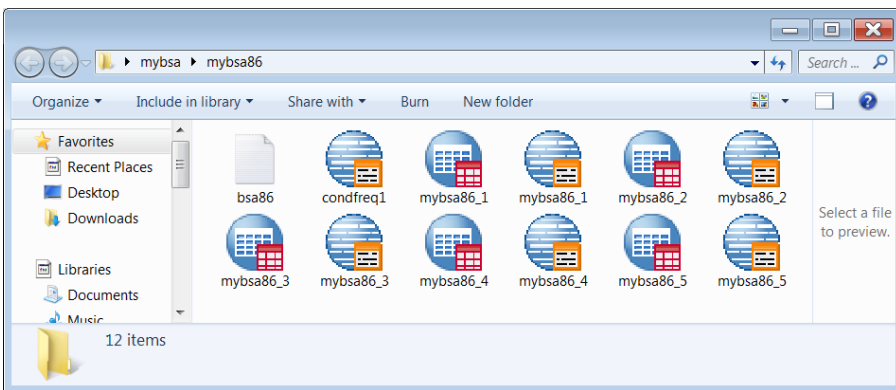
Question	Value(s)	Record	Column(s)	Varname
Q.117a: Any qualifications?	1, 2	15	65	v1565
<b>Showcard items: use for labels</b>				
Q.117b: CSE 2-5	1	15	66-67	v1566
Q.117b: CSE 1, O level,etc	2	15	68-69	v1568
Q.117b: A level, etc	3	15	70-71	v1570
Q.117b: O-seas leavng exam	4	15	72-73	v1572
Q.117b: Trade apprenticeshp	5	15	74-75	v1574
Q.117b: RSA,similar clerical	6	15	76-77	v1576
Q.117b: C & Guilds Craft,etc	7	15	78-79	v1578
Q.117b: C & Guilds Advanced,etc	8	16	08-09	v1608
Q.117b: C & Guilds full tech	9	16	10-11	v1610
Q.117b: BEC Ordrary,ONC,OND	10	16	12-13	v1612
Q.117b: BEC Higher,HNC,HND	11	16	14-15	v1614
Q.117b: Teacher training	12	16	16-17	v1616
Q.117b: nursing qual	13	16	18-19	v1618
Q.117b: Other tech,business	14	16	20-21	v1620
Q.117b: Univ,CNAA degree,diploma	15	16	22-23	v1622
Q.117b: Other qual or DK,NA	97	16	24-25	v1624

**Step 1:** Open folder **mybsa** in your desktop:

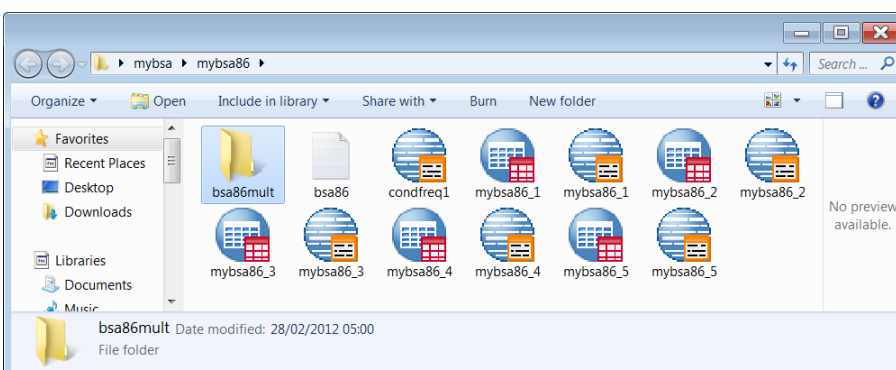
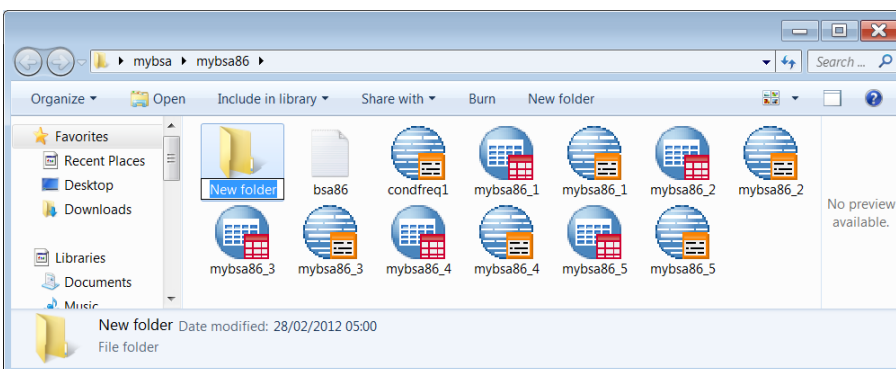


... and then open folder **mybsa86**:

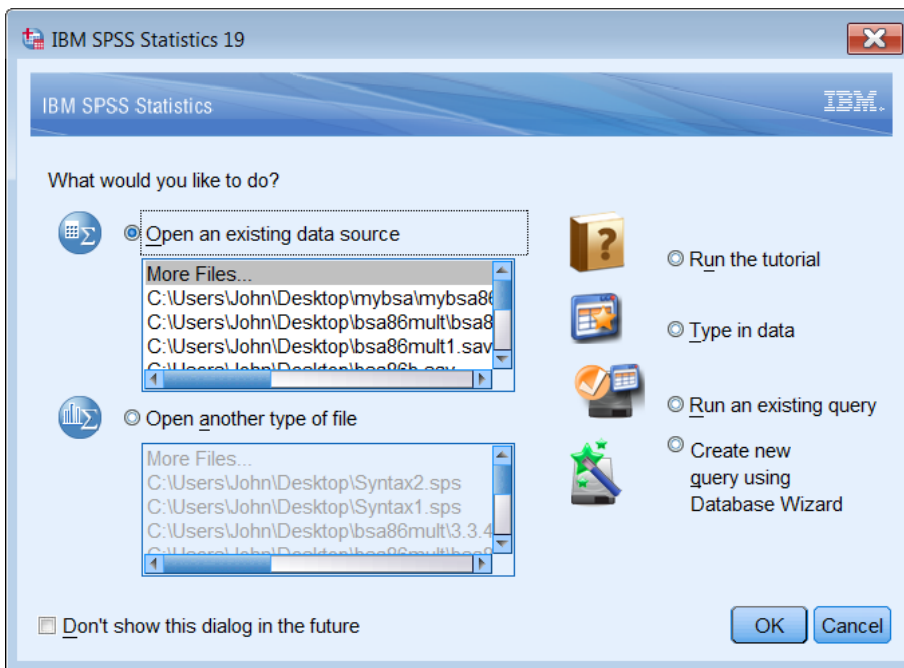
If you don't already have the raw data file **bsa86.txt** (top left corner below) in your folder **mybsa86** you will need to copy the raw data file [bsa86.txt](#) into it from this site before you start.



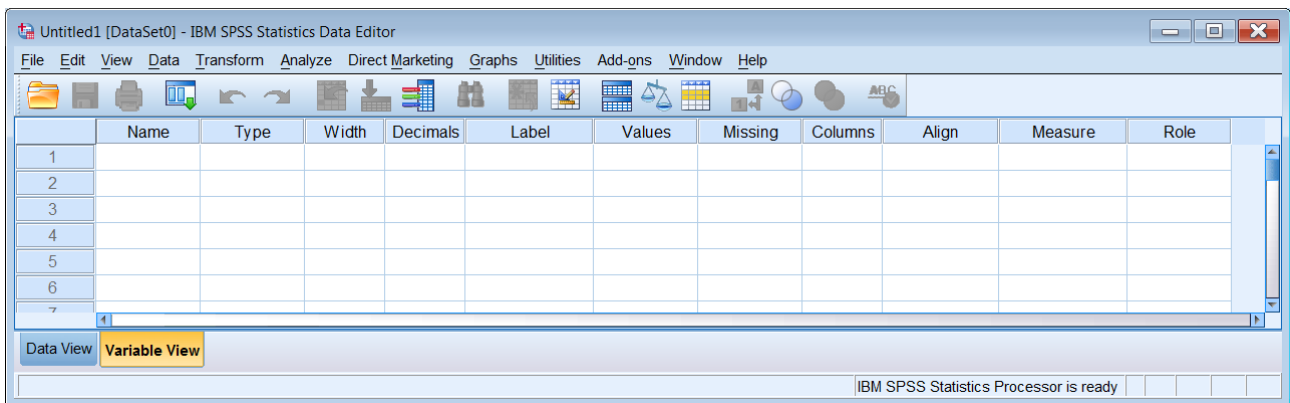
This set of exercises will generate several new files: to keep things manageable it's best to open a new sub-folder **bsa86mult** to hold your work on multiple response for this survey.



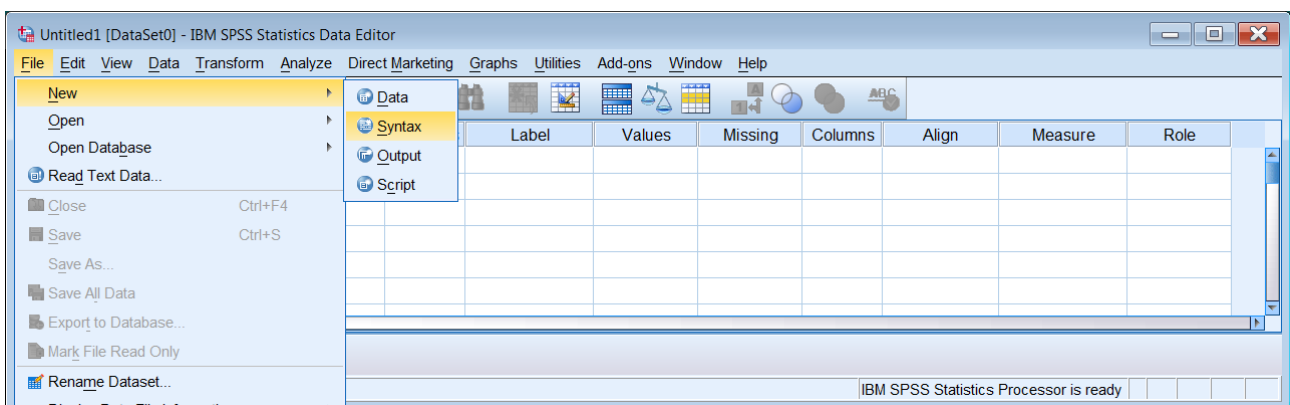
## Step 2: Open SPSS



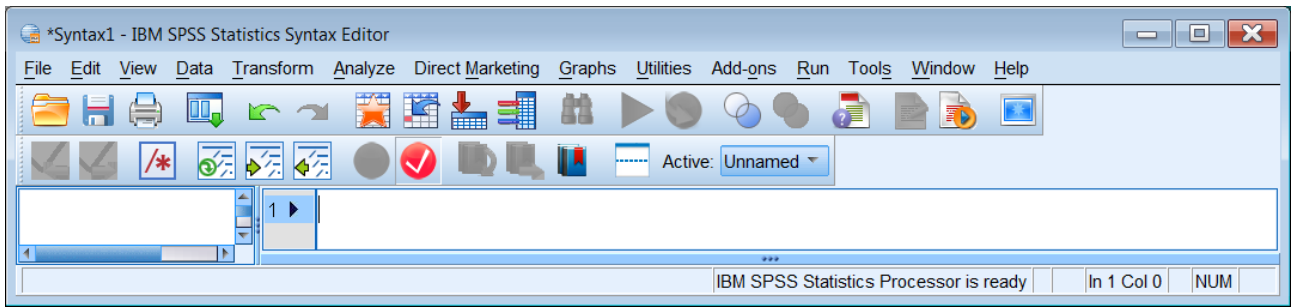
Click on **Cancel** and (if you don't already have one open with your default SPSS settings)



**File** > **New** > **Syntax**



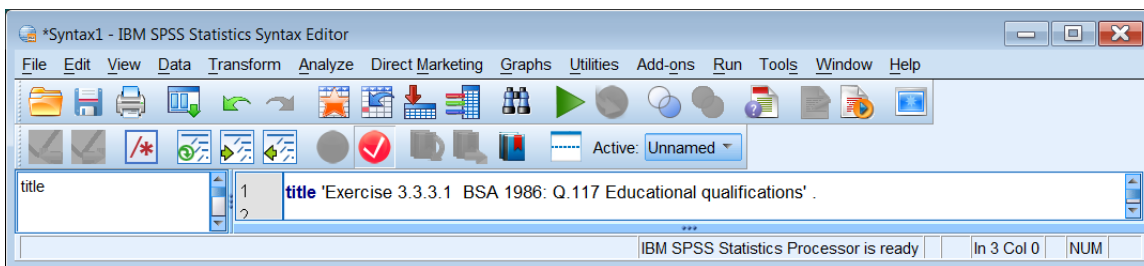
to open a new syntax file:



**Step 3:** Read in the raw data

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

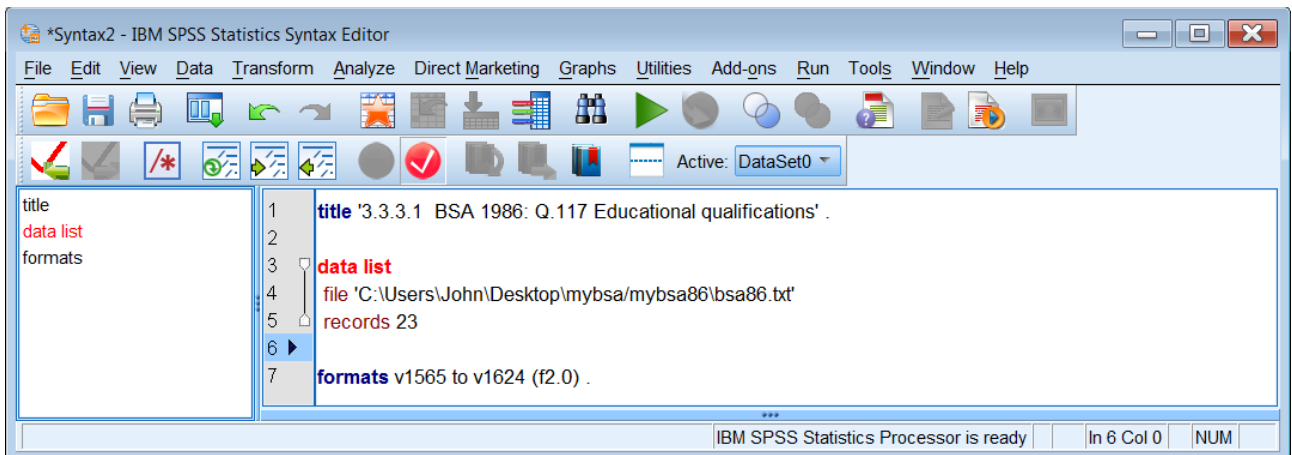
**title 'Exercise 3.3.3.1 BSA 1986: Q.117 Educational qualifications' .**



Write out the first part of your **DATA LIST** command (inset subsequent lines by at least one space)

**data list**

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

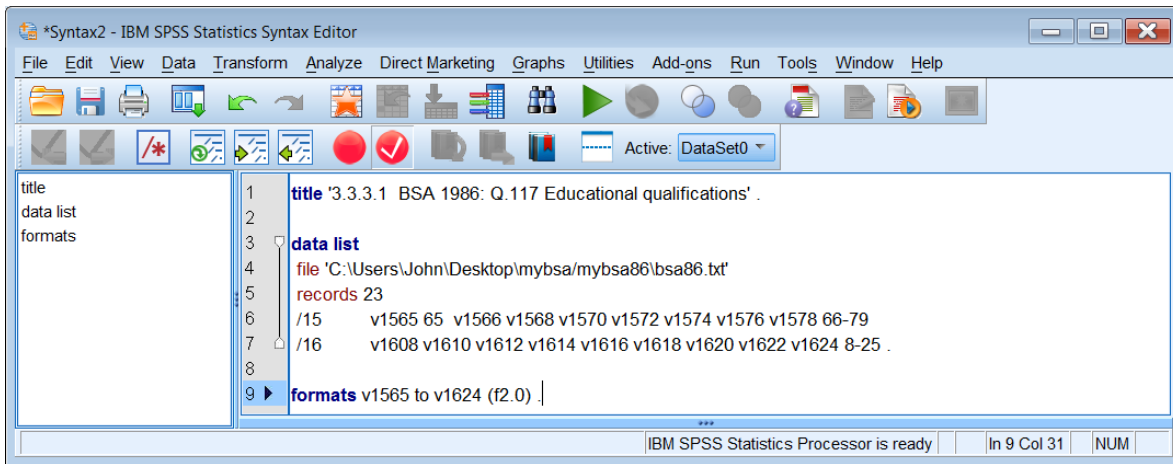


The **data list** command is still **red** because the command is not yet complete. Referring to the table above, carefully write out the rest of the data layout needed:

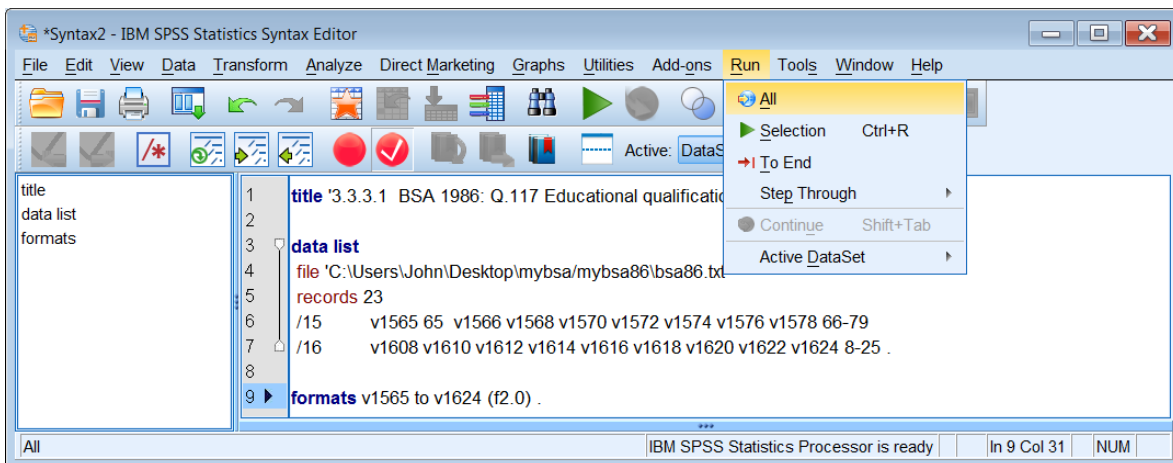
**/15 v1565 65 v1566 v1568 v1570 v1572 v1574 v1576 v1578 66-79**  
**/16 v1608 v1610 v1612 v1614 v1616 v1618 v1620 v1622 v1624 8-25 .**

. . and add a **format** command to define the variables as numeric integers (no decimal places).

**formats v1565 to v1624 (f2.0) .**



Click on **Run** > **All**



The following will appear in the viewer:

```
data list
  file 'C:\Users\John\Desktop\mybsa\bsa86.txt'
  records 23
/15      v1565 65  v1566 v1568 v1570 v1572 v1574 v1576 v1578 66-79
/16      v1608 v1610 v1612 v1614 v1616 v1618 v1620 v1622 v1624 8-25 .

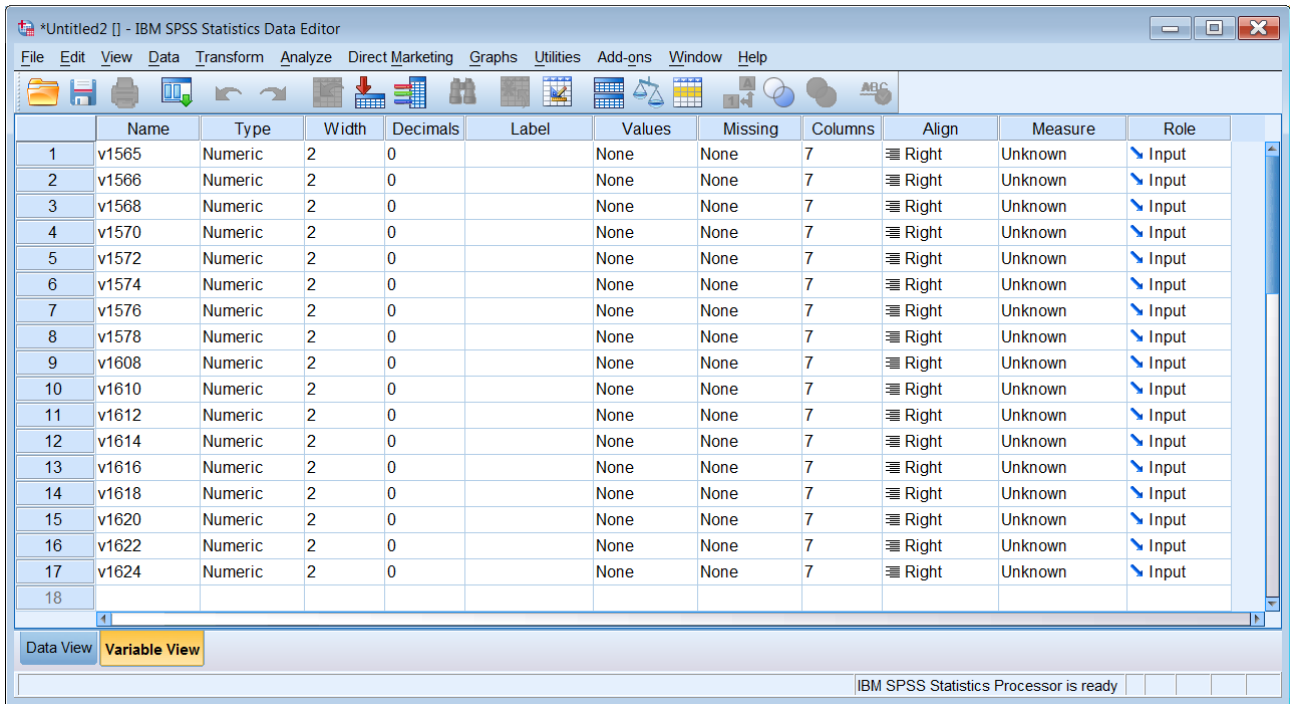
Data List will read 23 records from C:\Users\John\Desktop\mybsa\bsa86.txt

Variable      Rec   Start   End  Format
v1565         15     65     65  F1.0
v1566         15     66     67  F2.0
v1568         15     68     69  F2.0
v1570         15     70     71  F2.0
v1572         15     72     73  F2.0
v1574         15     74     75  F2.0
v1576         15     76     77  F2.0
v1578         15     78     79  F2.0
v1608         16      8      9  F2.0
v1610         16     10     11  F2.0
v1612         16     12     13  F2.0
v1614         16     14     15  F2.0
v1616         16     16     17  F2.0
v1618         16     18     19  F2.0
v1620         16     20     21  F2.0
v1622         16     22     23  F2.0
v1624         16     24     25  F2.0

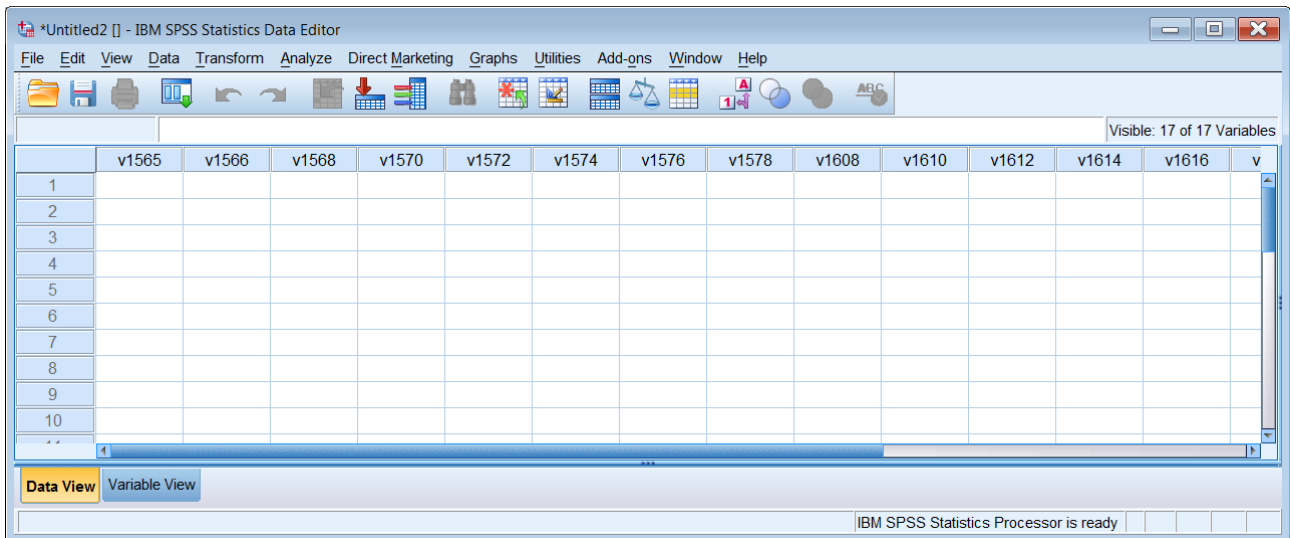
formats v1565 to v1624 (f2.0) .
```

. . . from which you can check that the data for each variable have been read from the correct record(s) and column(s). This is a major advantage of using positional variable names when reading data from files in ASCII format.

The data editor in **Variable View** fills up:



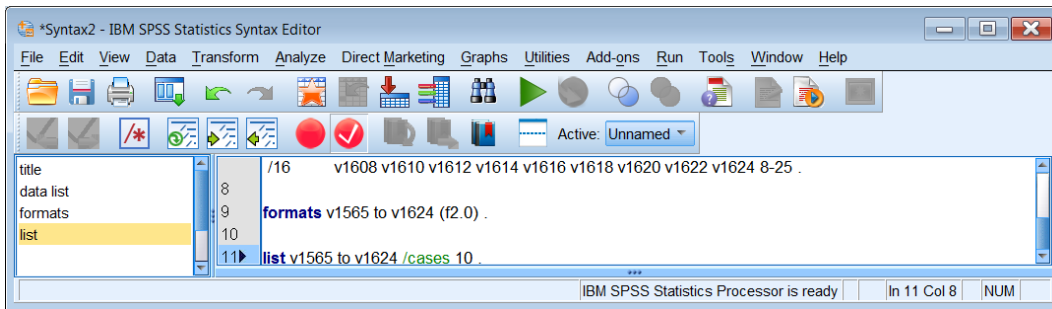
. . but is empty in Data View as SPSS has not yet made a pass through the data.




## Step 2: Check your data

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

**list v1565 to v1624 /cases 10 .**

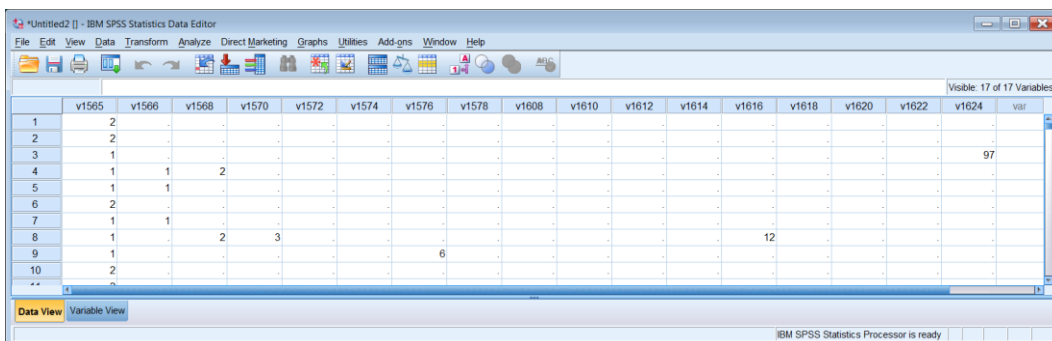


Click on  to get a listing of the contents of the first 10 cases:

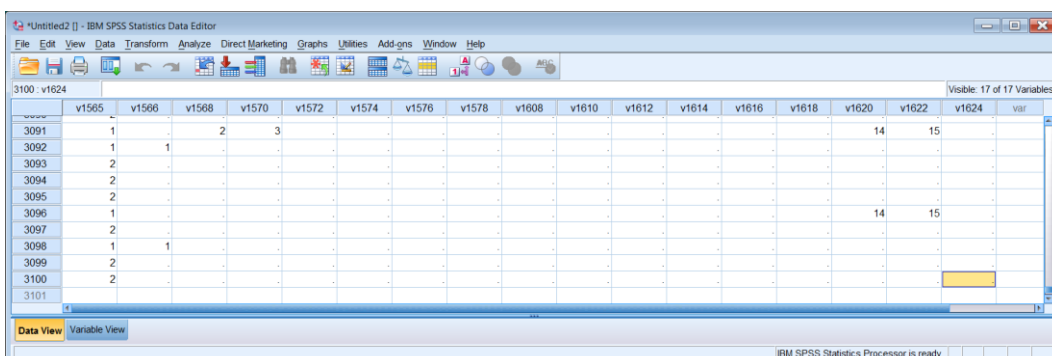
	v1565	v1566	v1568	v1570	v1572	v1574	v1576	v1578	v1608	v1610	v1612	v1614	v1616	v1618	v1620	v1622	v1624
2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	97
1	1	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1	.	2	3	.	.	.	.	.	.	.	.	.	12	.	.	.	.
1	.	.	.	.	.	.	6	.	.	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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

This command forces a pass through the data. The data editor has now filled up in **Data View**.



If you scroll up and down the file you can make a visual check that data for **v1656** onwards only appear where **v1665** has value **1**.

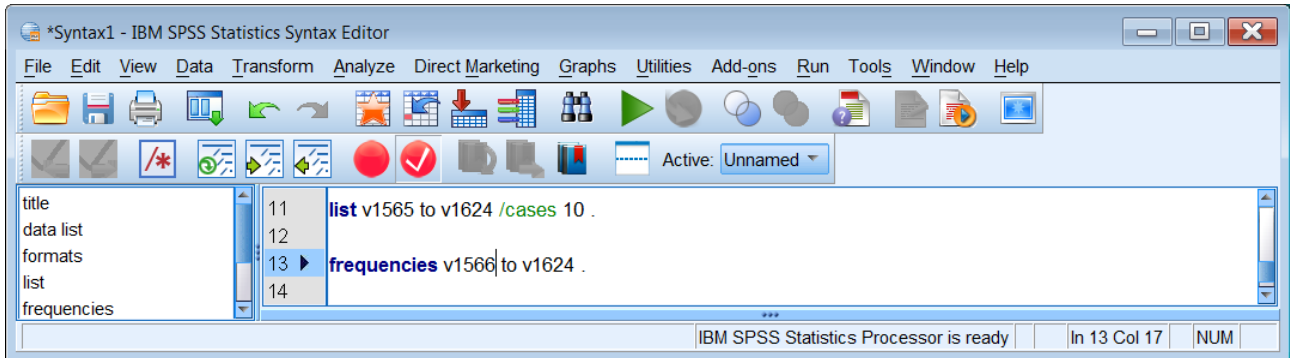




**Step 3:** Check your data again.

As a second check, run a frequency count on the qualifications (if any) held by the respondent:

**frequencies v1566 to v1624 .**



Click on  to get:

		v1566	v1568	v1570	v1572	v1574	v1576	v1578
N	Valid	374	1073	426	26	192	257	204
	Missing	2726	2027	2674	3074	2908	2843	2896

v1608	v1610	v1612	v1614	v1616	v1618	v1620	v1622	v1624
101	47	76	69	95	98	185	207	56
2999	3053	3024	3031	3005	3002	2915	2893	3044

**v1566**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	374	12.1	100.0	100.0
Missing System	2726	87.9		
Total	3100	100.0		

**v1574**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 5	192	6.2	100.0	100.0
Missing System	2908	93.8		
Total	3100	100.0		

**v1568**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2	1073	34.6	100.0	100.0
Missing System	2027	65.4		
Total	3100	100.0		

**v1576**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 6	257	8.3	100.0	100.0
Missing System	2843	91.7		
Total	3100	100.0		

**v1570**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 3	426	13.7	100.0	100.0
Missing System	2674	86.3		
Total	3100	100.0		

**v1578**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 7	204	6.6	100.0	100.0
Missing System	2896	93.4		
Total	3100	100.0		

**v1572**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 4	26	.8	100.0	100.0
Missing System	3074	99.2		
Total	3100	100.0		

**v1608**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 8	101	3.3	100.0	100.0
Missing System	2999	96.7		
Total	3100	100.0		

**v1610**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 9	47	1.5	100.0	100.0
Missing System	3053	98.5		
Total	3100	100.0		

**v1618**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 13	98	3.2	100.0	100.0
Missing System	3002	96.8		
Total	3100	100.0		

**v1612**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 10	76	2.5	100.0	100.0
Missing System	3024	97.5		
Total	3100	100.0		

**v1620**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 14	185	6.0	100.0	100.0
Missing System	2915	94.0		
Total	3100	100.0		

**v1614**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 11	69	2.2	100.0	100.0
Missing System	3031	97.8		
Total	3100	100.0		

**v1622**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 15	207	6.7	100.0	100.0
Missing System	2893	93.3		
Total	3100	100.0		

**v1616**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 12	95	3.1	100.0	100.0
Missing System	3005	96.9		
Total	3100	100.0		

**v1624**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 97	56	1.8	100.0	100.0
Missing System	3044	98.2		
Total	3100	100.0		

The tables above show that there is only a single value for each variable, so we can now proceed to set up a multiple response group variable to include all the qualifications in a single table.

#### Step 4: Define a **group variable** for Q.117b

As we saw in tutorial [3.3.1 Analysing multiple response with SPSS - an introduction](#) SPSS has a procedure, **MULT RESPONSE**, which effectively makes up separate tables (one for each variable in the list) and then adds them all up into a single table. To do this it creates a temporary **group variable** which **cannot be saved**, but has to be re-created each time you want to use it in an SPSS run. It can only work in "**integer mode**"<sup>1</sup>, and so any variables to be included in the groups have to be in numeric format.

To define a group variable we need to give it a name and tell SPSS which variables and which values to scan. A label for the group variable is optional.

The general format of the multiple response "group" specification is:

```
MULT RESPONSE GROUPS =
  <group variable> [ ' <label> ' ]
  ( <variable list> ( <min> , <max> ) )
  <group variable> ....
```

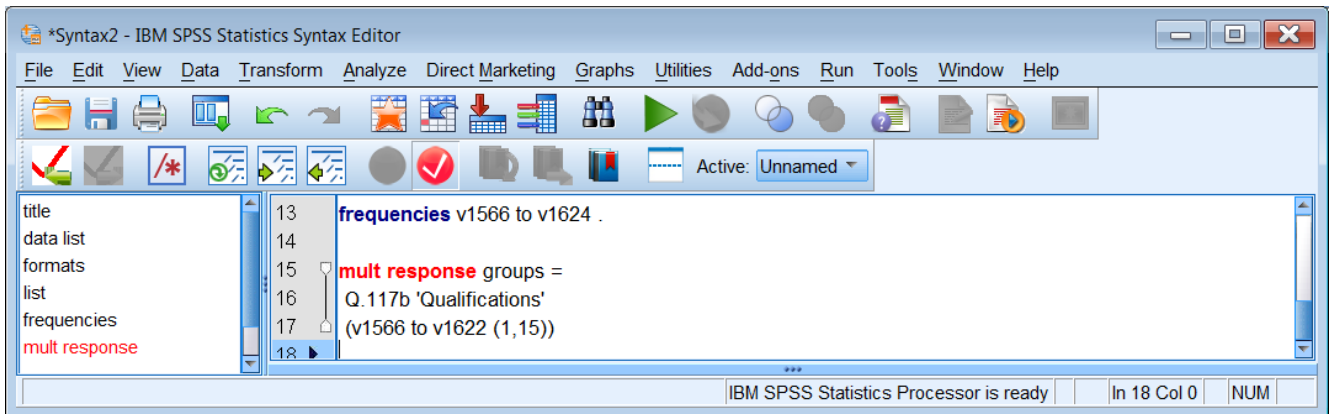
in which items in **<chevrons>** are user supplied, items in [square brackets] are optional and items in **bold** are compulsory. Thus, for our purposes:

```
mult response groups =
  Q.117b 'Qualifications'
  (v1566 to v1622 (1,15))
```

We don't need **v1624** as it was used for other uncodable and missing values: we're only interested in values **1** to **15** spread out across **v1656** to **v1622**.

<sup>1</sup> No longer used in later versions of SPSS: all numeric values except missing are now automatically included.

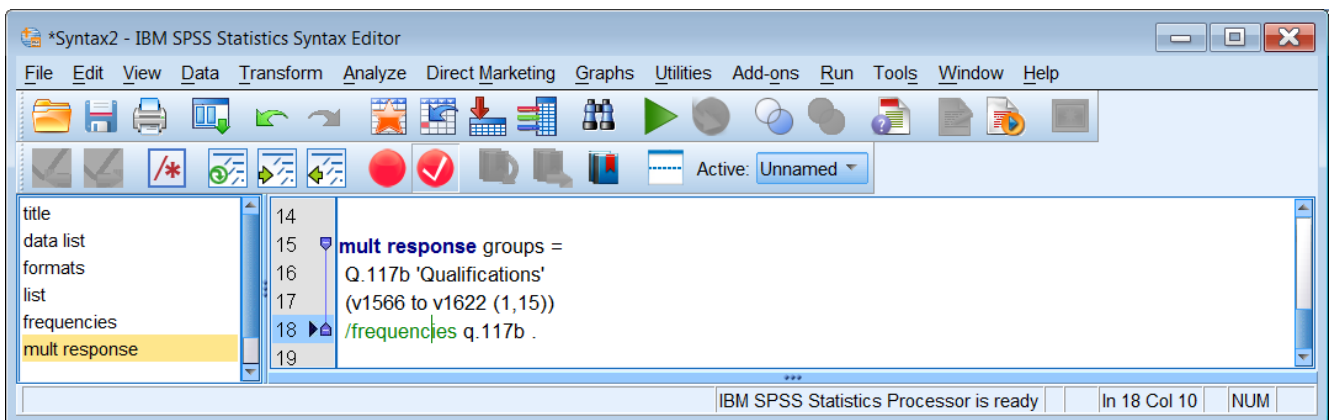
Go back to your syntax file and type in the above syntax:



**mult response** is still in **red** because the command is not yet complete. To obtain the grouped frequency count we have to provide a sub-command, preceded by a forward slash '/', specifying the analysis required followed by the group variable name to be tabulated

**/ frequencies q.117b .**

It doesn't matter that q.117b is in lower case: SPSS will print back whatever you have written inside the label, but you do need to make sure that the group name is the same as the one specified earlier in the command!



The command is now complete, so click on  to get:

**Case Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q.117b <sup>a</sup>	1688	54.5%	1412	45.5%	3100	100.0%

a. Group

This table shows that Q.117b is a group variable and that there are 1688 respondents with valid values in the range previously specified ( 1 – 15 )

SPSS then produces the following table of grouped frequencies for the group variable Q.117b:

		Responses		Percent of Cases
		N	Percent	
Qualifications <sup>a</sup>	1	374	10.9%	22.2%
	2	1073	31.3%	63.6%
	3	426	12.4%	25.2%
	4	26	.8%	1.5%
	5	192	5.6%	11.4%
	6	257	7.5%	15.2%
	7	204	5.9%	12.1%
	8	101	2.9%	6.0%
	9	47	1.4%	2.8%
	10	76	2.2%	4.5%
	11	69	2.0%	4.1%
	12	95	2.8%	5.6%
	13	98	2.9%	5.8%
	14	185	5.4%	11.0%
	15	207	6.0%	12.3%
Total	3430	100.0%	203.2%	

a. Group

. . . which is useful as a check, but not much use unless you know what each value signifies.

### Step 5: Add variable labels and value labels

The tedious way to do this is to type in this very long list, always prone to error.

#### variable labels

```

v1565 'Q.117a: Any qualifications?'
/ v1566 'Q.117b: CSE 2-5'
/ v1568 'Q.117b: CSE 1, O level,etc'
/ v1570 'Q.117b: A level, etc'
/ v1572 'Q.117b: Overseas leavng exam'
/ v1574 'Q.117b: Trade apprenticeship'
/ v1576 'Q.117b: RSA, similar clerical'
/ v1578 'Q.117b: City & Guilds Craft, etc'
/ v1608 'Q.117b: City & Guilds Advanced, etc'
/ v1610 'Q.117b: City & Guilds full tech'
/ v1612 'Q.117b: BEC Ordinary, ONC, OND'
/ v1614 'Q.117b: BEC Higher, HNC, HND'
/ v1616 'Q.117b: Teacher training'
/ v1618 'Q.117b: Nursing qual'
/ v1620 'Q.117b: Other tech, business'
/ v1622 'Q.117b: Univ, CNAA degree, diploma'
/ v1624 'Q.117b: Other qual or DK, NA' .

```

No, you don't have to type in this list of fifteen variable labels – you can cheat! You can just copy and paste the list direct into your syntax file!

Because of the way **MULT RESPONSE** works, we also need value labels. However SPSS only reads these from the first variable in the list defining the group, so they're actually superfluous for **v1568** to **v1624**. Again, you don't have to type out the whole list, just copy and paste from here direct to your syntax file (which by now is getting quite long!).

## value labels

v1565

1 'Yes' 2 'No'

/ v1566 to v1624

1 'CSE 2-5'

2 'CSE 1, O level,etc'

3 'A level, etc'

4 'Overseas leavng exam'

5 'Trade apprenticeship'

6 'RSA, similar clerical'

7 'City & Guilds Craft, etc'

8 'City & Guilds Advanced, etc'

9 'City & Guilds full tech'

10 'BEC Ordinary, ONC, OND'

11 'BEC Higher, HNC, HND'

12 'Teacher training'

13 'Nursing qual'

14 'Other tech, business'

15 'Univ, CNAA degree, diploma'

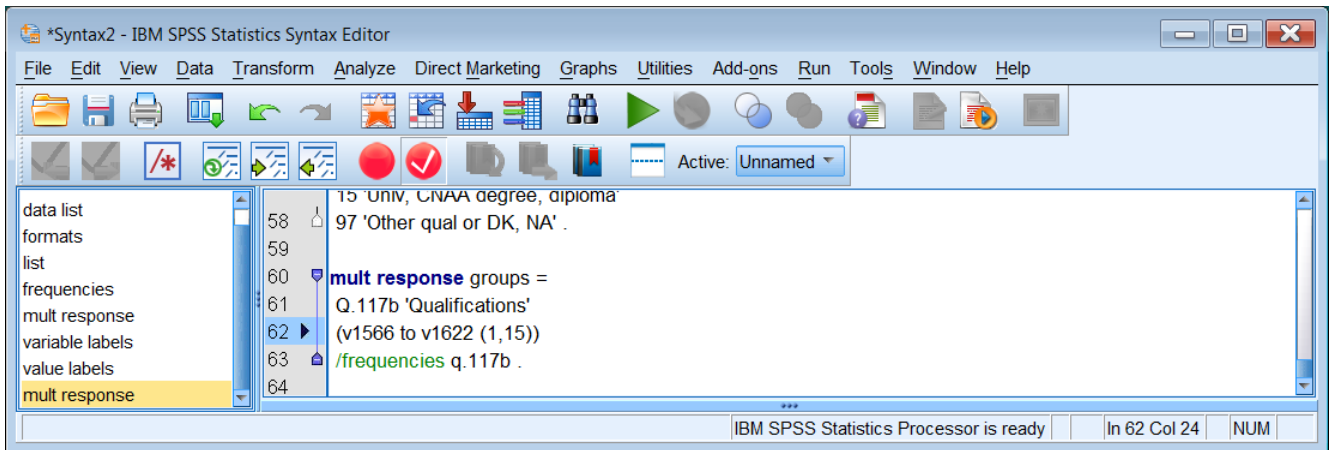
97 'Other qual or DK, NA' .

The screenshot shows the IBM SPSS Statistics Syntax Editor window. The title bar reads '\*Syntax2 - IBM SPSS Statistics Syntax Editor'. The menu bar includes File, Edit, View, Data, Transform, Analyze, Direct Marketing, Graphs, Utilities, Add-ons, Run, Tools, Window, and Help. The toolbar contains various icons for file operations, editing, and running syntax. The main editing area is divided into two sections: 'variable labels' and 'value labels'. The 'variable labels' section (lines 21-37) lists variables v1565 through v1624 with their corresponding descriptions. The 'value labels' section (lines 39-56) lists the values for variable v1565, including 'Yes', 'No', and a range of educational qualifications from 'CSE 2-5' to 'Other qual or DK, NA'.

```
variable labels
21 v1565 'Q.117a: Any qualifications?'
22 / v1566 'Q.117b: CSE 2-5'
23 / v1568 'Q.117b: CSE 1, O level,etc'
24 / v1570 'Q.117b: A level, etc'
25 / v1572 'Q.117b: Overseas leavng exam'
26 / v1574 'Q.117b: Trade apprenticeship'
27 / v1576 'Q.117b: RSA,similar clerical'
28 / v1578 'Q.117b: C & Guilds Craft,etc'
29 / v1608 'Q.117b: C & Guilds Advanced,etc'
30 / v1610 'Q.117b: C & Guilds full tech'
31 / v1612 'Q.117b: BEC Ordinary,ONC,OND'
32 / v1614 'Q.117b: BEC Higher,HNC,HND'
33 / v1616 'Q.117b: Teacher training'
34 / v1618 'Q.117b: Nursing qual'
35 / v1620 'Q.117b: Other tech,business'
36 / v1622 'Q.117b: Uni v,CNAA degree,diploma'
37 / v1624 'Q.117b: Other qual or DK,NA' .

value labels
39 v1565
40
41 1 'Yes' 2 'No'
42 / v1566 to v1624
43 1 'CSE 2-5'
44 2 'CSE 1, O level,etc'
45 3 'A level, etc'
46 4 'Overseas leavng exam'
47 5 'Trade apprenticeship'
48 6 'RSA, similar clerical'
49 7 'City & Guilds Craft, etc'
50 8 'City & Guilds Advanced, etc'
51 9 'City & Guilds full tech'
52 10 'BEC Ordinary, ONC, OND'
53 11 'BEC Higher, HNC, HND'
54 12 'Teacher training'
55 13 'Nursing qual'
56 14 'Other tech, business'
```

Finally, copy and paste the **MULT RESPONSE** command from earlier in the syntax file:



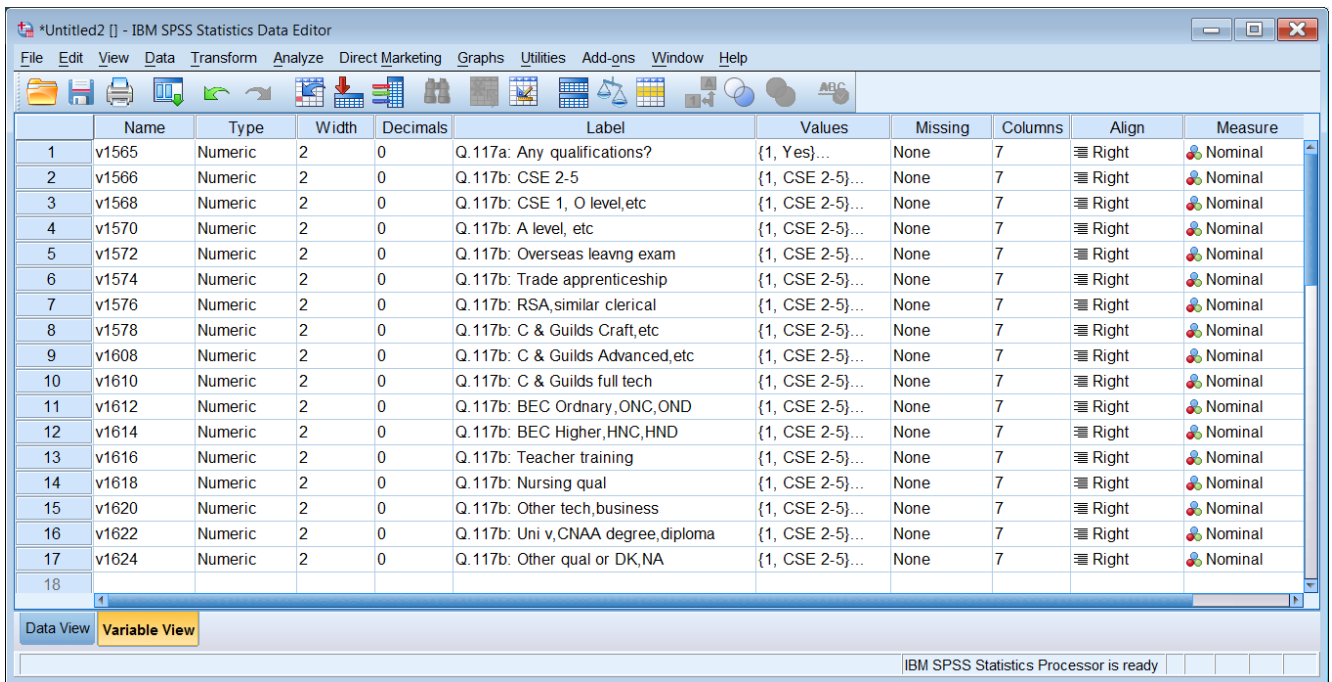
. . . and run the variable labels, value labels and mult response commands one at a time or by highlighting all three and running them at the same time.

The grouped frequency table is now easier to understand:

		Responses		Percent of Cases
		N	Percent	
Qualifications <sup>a</sup>	Q.117b: CSE 2-5	374	10.9%	22.2%
	Q.117b: CSE 1, O level,etc	1073	31.3%	63.6%
	Q.117b: A level, etc	426	12.4%	25.2%
	Q.117b: Overseas leavng exam	26	.8%	1.5%
	Q.117b: Trade apprenticeship	192	5.6%	11.4%
	Q.117b: RSA, similar clerical	257	7.5%	15.2%
	Q.117b: City & Guilds Craft, etc	204	5.9%	12.1%
	Q.117b: City & Guilds Advanced, etc	101	2.9%	6.0%
	Q.117b: City & Guilds full tech	47	1.4%	2.8%
	Q.117b: BEC Ordinary, ONC, OND	76	2.2%	4.5%
	Q.117b: BEC Higher, HNC, HND	69	2.0%	4.1%
	Q.117b: Teacher training	95	2.8%	5.6%
	Q.117b: Nursing qual	98	2.9%	5.8%
	Q.117b: Other tech, business	185	5.4%	11.0%
Q.117b: Univ, CNAAB degree, diploma	207	6.0%	12.3%	
Total	3430	100.0%	203.2%	

a. Group

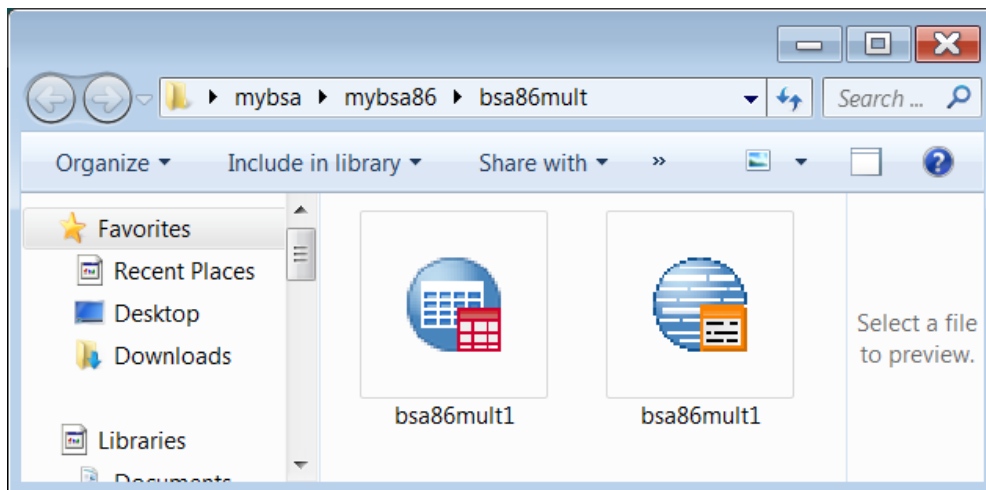
. . . and the data editor has now filled up with variable and value labels:



	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
1	v1565	Numeric	2	0	Q.117a: Any qualifications?	{1, Yes}...	None	7	Right	Nominal
2	v1566	Numeric	2	0	Q.117b: CSE 2-5	{1, CSE 2-5}...	None	7	Right	Nominal
3	v1568	Numeric	2	0	Q.117b: CSE 1, O level, etc	{1, CSE 2-5}...	None	7	Right	Nominal
4	v1570	Numeric	2	0	Q.117b: A level, etc	{1, CSE 2-5}...	None	7	Right	Nominal
5	v1572	Numeric	2	0	Q.117b: Overseas leavng exam	{1, CSE 2-5}...	None	7	Right	Nominal
6	v1574	Numeric	2	0	Q.117b: Trade apprenticeship	{1, CSE 2-5}...	None	7	Right	Nominal
7	v1576	Numeric	2	0	Q.117b: RSA, similar clerical	{1, CSE 2-5}...	None	7	Right	Nominal
8	v1578	Numeric	2	0	Q.117b: C & Guilds Craft, etc	{1, CSE 2-5}...	None	7	Right	Nominal
9	v1608	Numeric	2	0	Q.117b: C & Guilds Advanced, etc	{1, CSE 2-5}...	None	7	Right	Nominal
10	v1610	Numeric	2	0	Q.117b: C & Guilds full tech	{1, CSE 2-5}...	None	7	Right	Nominal
11	v1612	Numeric	2	0	Q.117b: BEC Ordinary, ONC, OND	{1, CSE 2-5}...	None	7	Right	Nominal
12	v1614	Numeric	2	0	Q.117b: BEC Higher, HNC, HND	{1, CSE 2-5}...	None	7	Right	Nominal
13	v1616	Numeric	2	0	Q.117b: Teacher training	{1, CSE 2-5}...	None	7	Right	Nominal
14	v1618	Numeric	2	0	Q.117b: Nursing qual	{1, CSE 2-5}...	None	7	Right	Nominal
15	v1620	Numeric	2	0	Q.117b: Other tech, business	{1, CSE 2-5}...	None	7	Right	Nominal
16	v1622	Numeric	2	0	Q.117b: Uni v, CNA A degree, diploma	{1, CSE 2-5}...	None	7	Right	Nominal
17	v1624	Numeric	2	0	Q.117b: Other qual or DK, NA	{1, CSE 2-5}...	None	7	Right	Nominal
18										

At this point you should **save your data editor** and also your **syntax editor** (accidents can often happen to make you lose your work!).

Save both files in folder **bsa86mult**. Save the data editor as **bsa86mult1.sav** and the syntax editor as **bsamult1.sps**.



**End of tutorial**

**Next tutorial**            3.3.3.2 More values than fields

Back to page [3.3 Multiple response](#)