

Notes on the teaching data set for British Social Attitudes 2004 (UK Data Services [SN 6096](#).)

As used in [Marsh & Elliott, "Exploring Data" \(2008\)](#)

John Hall

(Draft only: 11 Feb 2014)

SPSS saved file **bsa2004_teach.sav** is a subset of 49 variables from the main survey. It is one of five data sets used in the book and you need to be a registered user to access it. However, you do not need the actual file to be able to follow and understand these notes.

Extract from [userguide](#):

Exploring Data 2nd edition: The Teaching Datasets

The five datasets documented here contain much more information than was used in the text or the exercises of the second edition of 'Exploring Data'. It is hoped that they will provide interesting material for you to explore using the SPSS package. The data has been taken from several different sources and all the datasets are available in machine-readable form for teaching purposes from the ESRC Data Archive at the University of Essex. Brief documentation about the variables in each dataset is provided here but fuller information about the studies from which the data has been extracted are given in the chapter in which the dataset is first used and on the website for the book <http://polity.co.uk/exploringdata> . Readers are referred to the original sources for the complete documentation of the data.

Many of the datasets that are available to researchers from the ESRC Data Archive contain literally hundreds, and sometimes thousands, of variables. This can make them unwieldy and daunting for students and junior researchers to use. The datasets documented here have therefore been specifically designed for students in that they include only a small subset of the original variables. However there has been no sub-setting of the total number of cases in the datasets so the results obtained from analysing them will be the same as results obtained when analysing the full datasets available from the archive.

List of teaching datasets

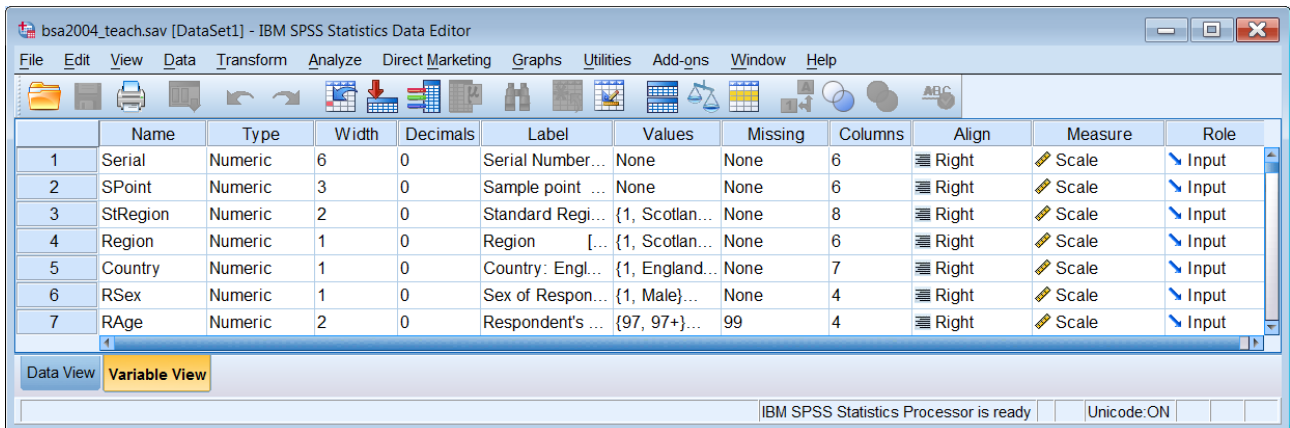
GHS05 ind teach.sav	17 variables	page 2	Chapter 1, 2, 7
NCDS ExpData teach.sav	32 variables	page 7	Chapter 3, 8, 9, 13
YCS11 teach.sav	10 variables	page 19	Chapter 6
WorldBank 2000 Teach.sav	13 variables	page 22	Chapter 10
BSA2004 Teach.sav	49 variables	page 24	Chapter 12

Summary of datasets used in each of the chapters of the book	
Chapter 1	GHS05 ind teach.sav
Chapter 2	GHS05 ind teach.sav
Chapter 3	NCDS ExpData teach.sav
Chapter 4	No SPSS exercises
Chapter 5	No SPSS exercises
Chapter 6	YCS11 teach.sav
Chapter 7	GHS05 ind teach.sav
Chapter 8	NCDS ExpData teach.sav
Chapter 9	NCDS ExpData teach.sav
Chapter 10	WorldBank 2000 Teach.sav
Chapter 11	No SPSS exercises
Chapter 12	BSA2004 Teach.sav
Chapter 13	NCDS ExpData teach.sav

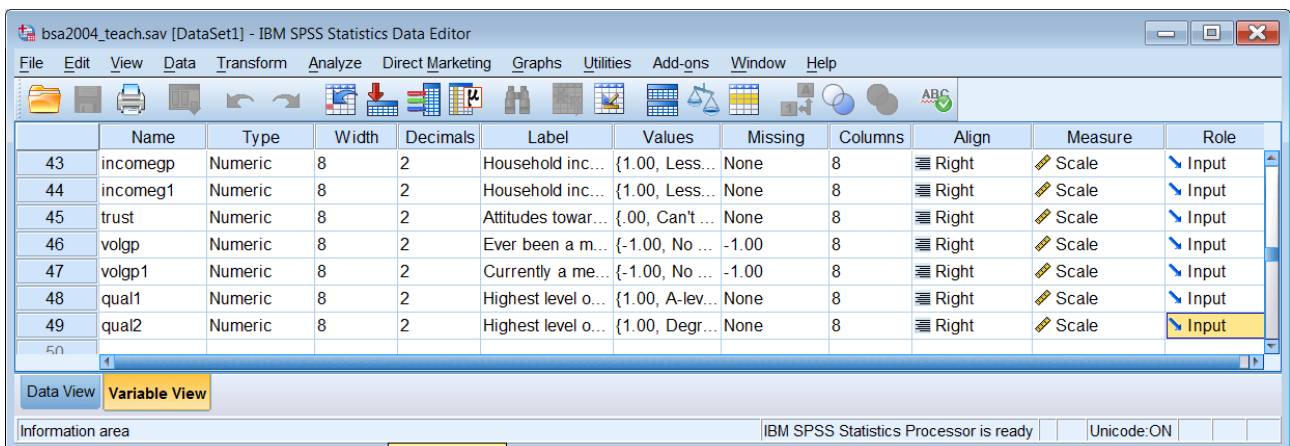
Data from the British Social Attitudes survey are only used in chapter 12 and then only for modelling. There is only one 3-way tabulation: the rest are proportions for modelling. The only tabulations (for YCS11) are in chapter 6 and only produced with GUI, not syntax (p 123 and figs 6.5, 6.6).

File: **bsa2004_teach.sav** (UKDS SN 6096, 77 kb)

On opening (in **Variable View**):

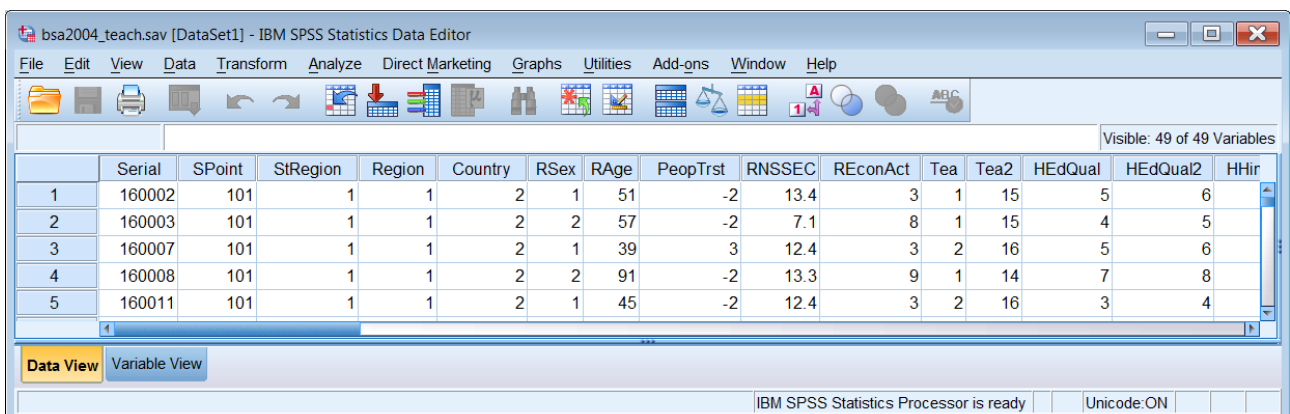


Scroll to end, or **Ctrl + End**:



There are **49 variables** in the file.

Switch to **Data View**:



Scroll to end, or use **Ctrl + End**:

	App	WrongLaw	PartyId2	agegp1	agegp2	incomegp	incomeg1	trust	volgp	volgp1	qual1	qual2
3195	-1	-1	1	2.00	2.00	.	.	.	-1.00	-1.00	1.00	1.00
3196	2	3	3	2.00	2.00	2.00	1.00	.	-1.00	-1.00	2.00	2.00
3197	1	3	5	1.00	2.00	1.00	1.00	.	-1.00	-1.00	1.00	2.00
3198	5	4	2	1.00	1.00	2.00	2.00	1.00	.00	.00	1.00	1.00
3199	-1	-1	8	1.00	1.00	2.00	1.00	.	-1.00	-1.00	2.00	2.00
3200												

There are **3199 cases** in the file.

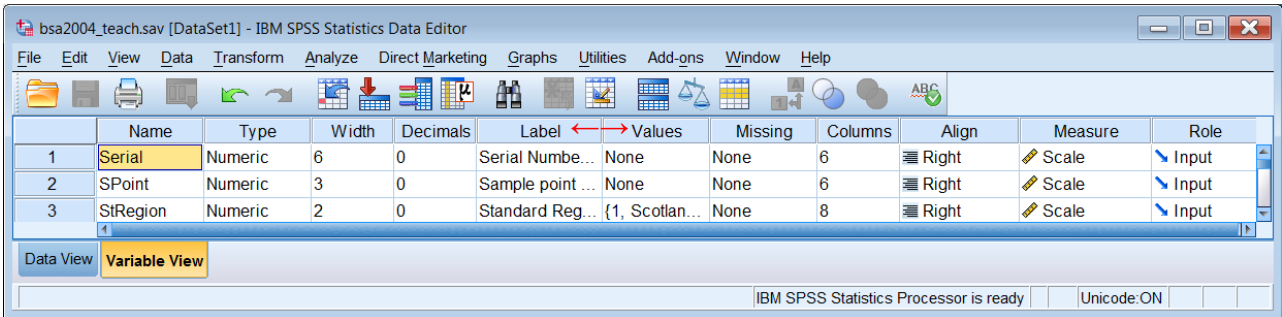
Back to **Variable View**:

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
43	incomegp	Numeric	8	2	Household inc...	{1.00, Less...	None	8	Right	Scale	Input
44	incomeg1	Numeric	8	2	Household inc...	{1.00, Less...	None	8	Right	Scale	Input
45	trust	Numeric	8	2	Attitudes towar...	{.00, Can't ...	None	8	Right	Scale	Input
46	volgp	Numeric	8	2	Ever been a m...	{-1.00, No ...	-1.00	8	Right	Scale	Input
47	volgp1	Numeric	8	2	Currently a me...	{-1.00, No ...	-1.00	8	Right	Scale	Input
48	qual1	Numeric	8	2	Highest level o...	{1.00, A-lev...	None	8	Right	Scale	Input
49	qual2	Numeric	8	2	Highest level o...	{1.00, Degr...	None	8	Right	Scale	Input

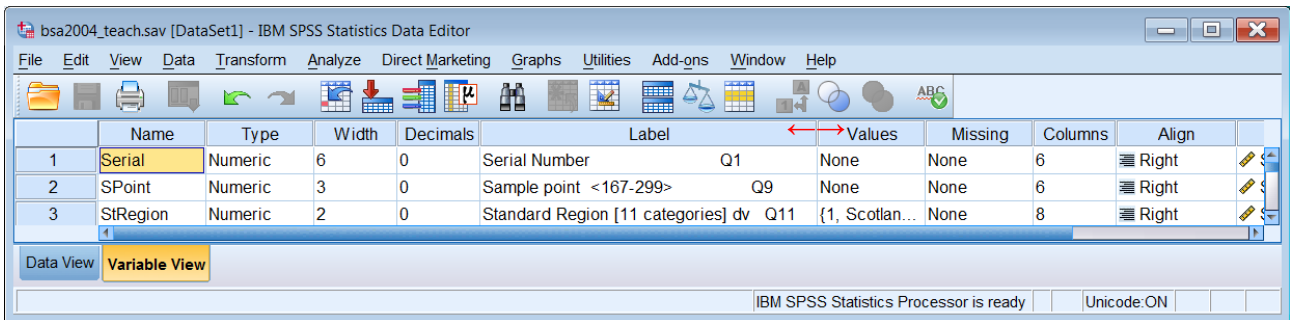
Scroll back to top, or use **Ctrl + Home**:

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	Serial	Numeric	6	0	Serial Number...	None	None	6	Right	Scale	Input
2	SPoint	Numeric	3	0	Sample point ...	None	None	6	Right	Scale	Input
3	StRegion	Numeric	2	0	Standard Regi...	{1, Scotlan...	None	8	Right	Scale	Input
4	Region	Numeric	1	0	Region [...	{1, Scotlan...	None	6	Right	Scale	Input
5	Country	Numeric	1	0	Country: Engl...	{1, England...	None	7	Right	Scale	Input
6	RSex	Numeric	1	0	Sex of Respon...	{1, Male}...	None	4	Right	Scale	Input
7	RAge	Numeric	2	0	Respondent's ...	{97, 97+}...	99	4	Right	Scale	Input
8	PeonTrst	Numeric	2	0	People can be	{2, Skp B...	1, 2	8	Right	Scale	Input

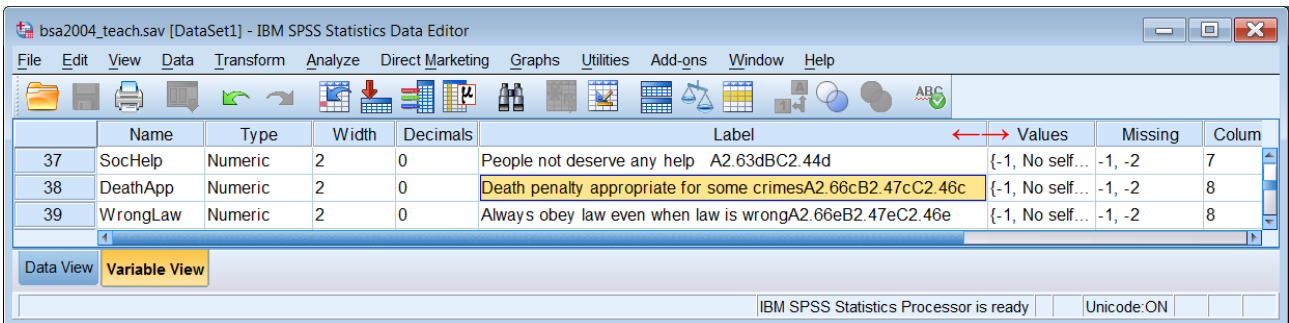
You can't see the variable or value labels properly, so you need to widen the **Label** column by placing the cursor over the right hand column separator (as with adjusting the page margins in Word, a double-headed arrow \longleftrightarrow will appear when the cursor is correctly placed: to make it easier to see I've coloured it **red** in the figures below \longleftrightarrow):



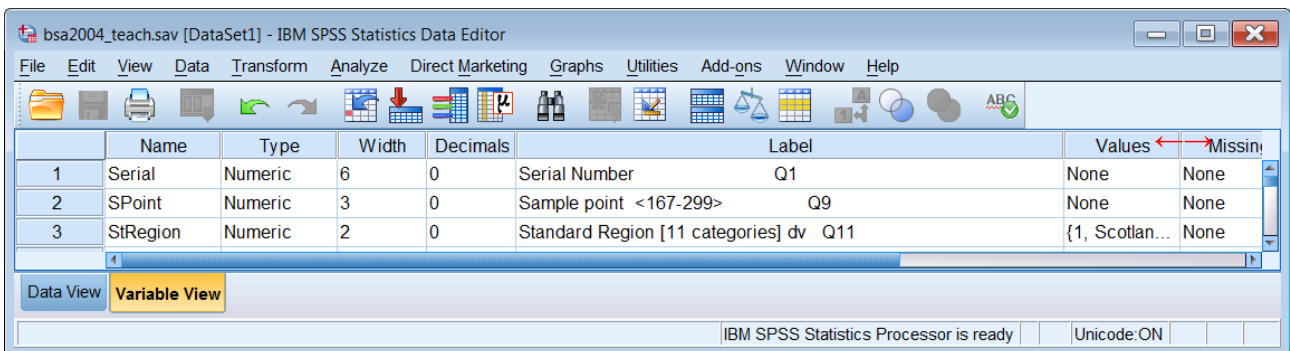
... and dragging it to the right until you can see the full label:



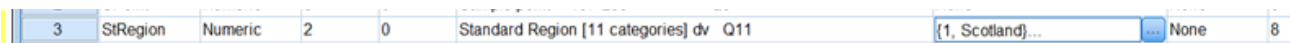
Scroll down the file to find the longest label: if you can't see it in full, widen the column a bit more until you can:

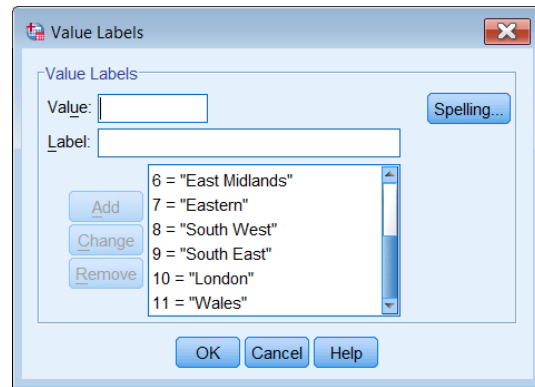
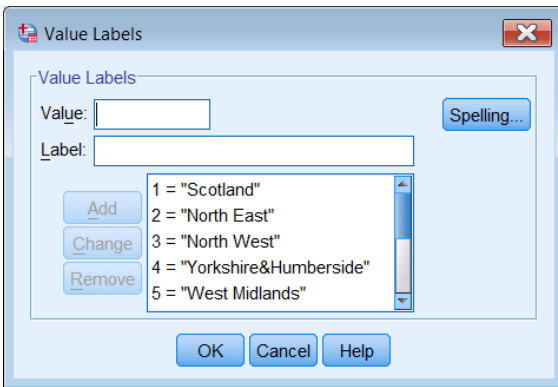


Now do the same for the **Values** column. Only the first value label is displayed for each variable, enclosed in { } followed by three dots . . . :

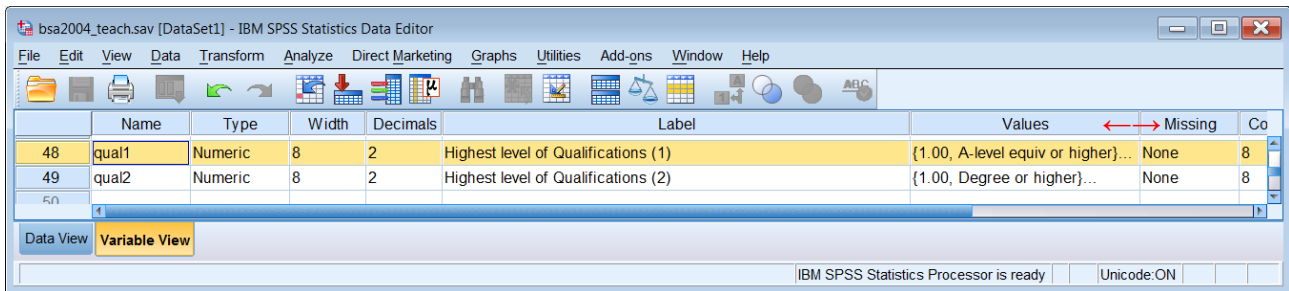


If you want to see all the labels for a particular variable, click on the three dots, then on the blue box:

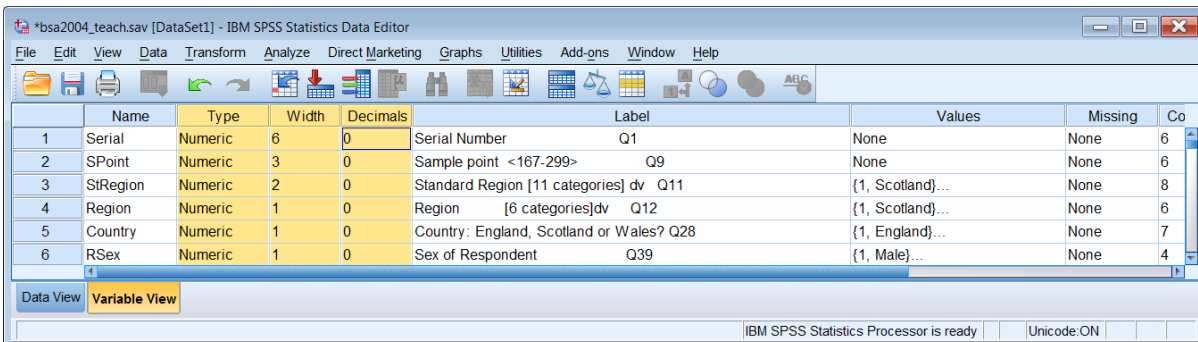




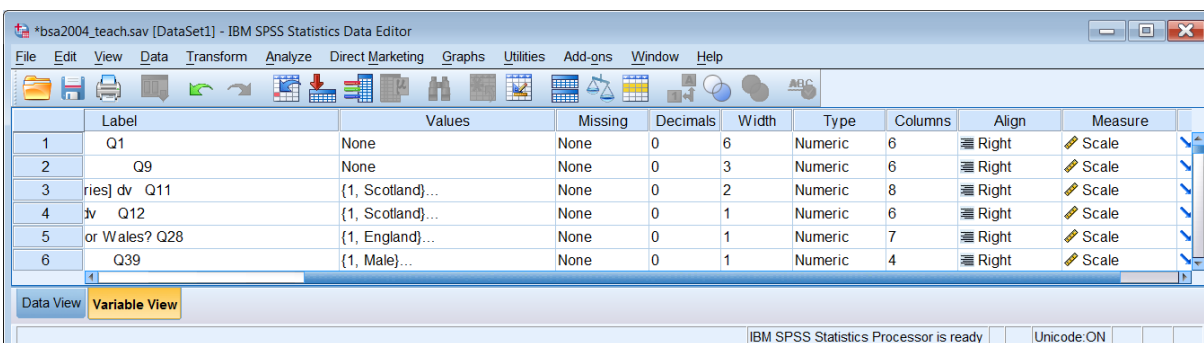
In the **Data Editor**, scroll down to find the longest value label [for variable **qual1**] and widen the **Value** column to accommodate the full label:



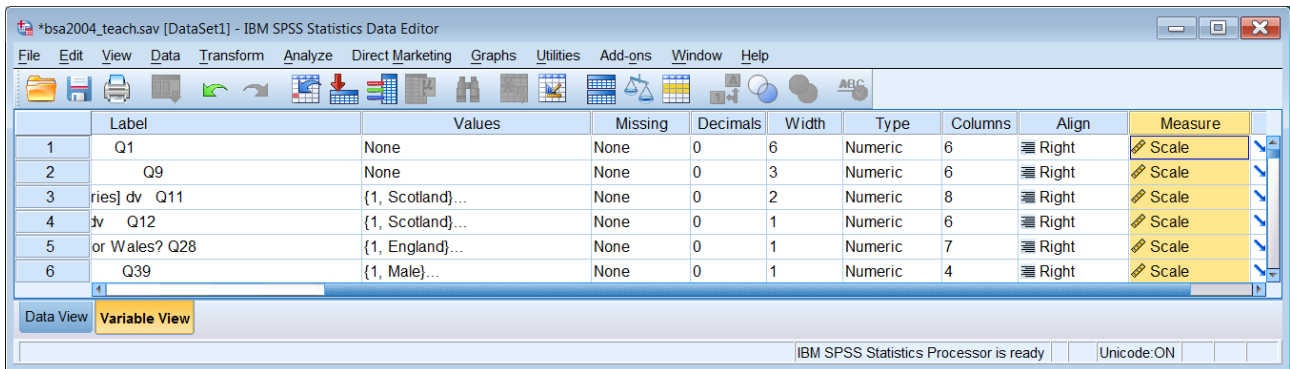
The remaining columns have now been pushed out of the **Data Editor** window, but you don't need most of them at this stage. The only ones that matter for now are the **Missing** and **Measure** columns. You don't really need **Type**, **Width** or **Decimals**, so you can move them out of the way by dragging them across to the right of the **Data Editor**. Highlight all three by holding the left mouse button down over **Type** and dragging it across the the **Width** and **Decimals** column headings:



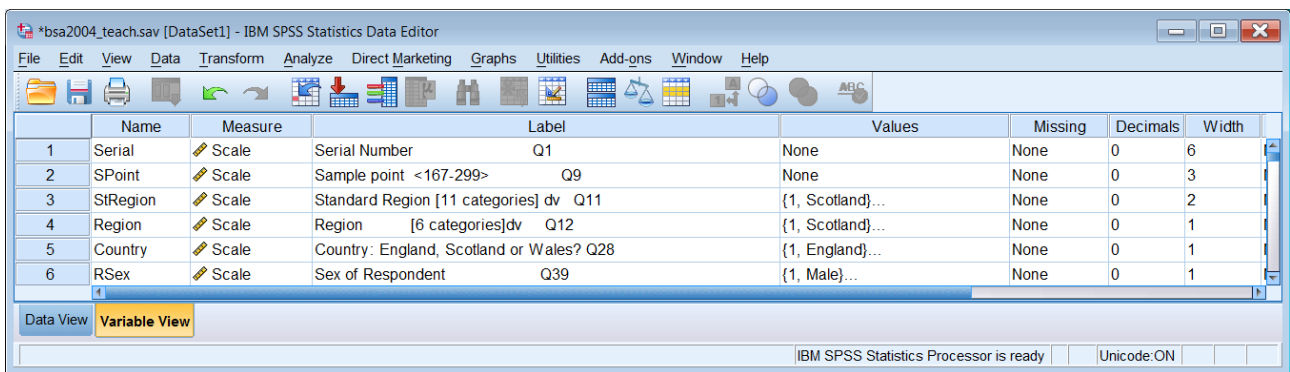
Hold the left mouse button down over any of the headers and drag them across to a position after **Missing** (a thin red vertical line will indicate the position reached):



Now click on **Measure**:



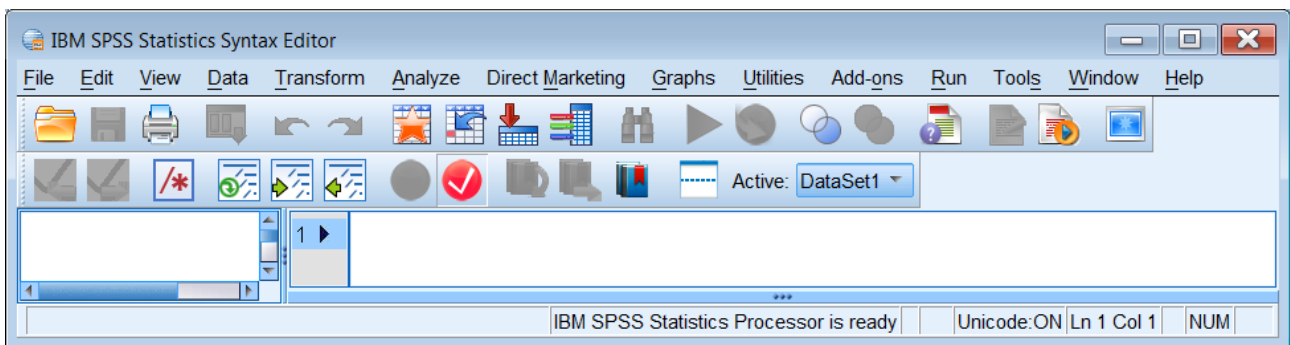
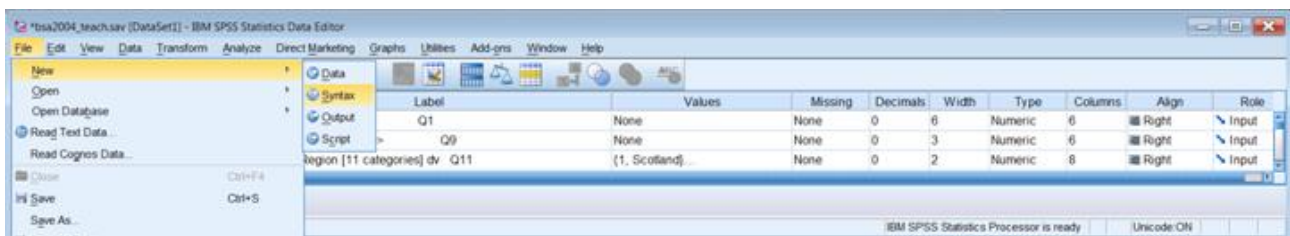
Hold the left mouse button down over **Measure** and drag the column to the left, to a position between **Name** and **Label**:



The file is now easier to navigate and use, but you have not finished yet!

You still need to make some initial checks on the file contents, especially the measurement levels and missing values. A quick check on names and labels can be done with:

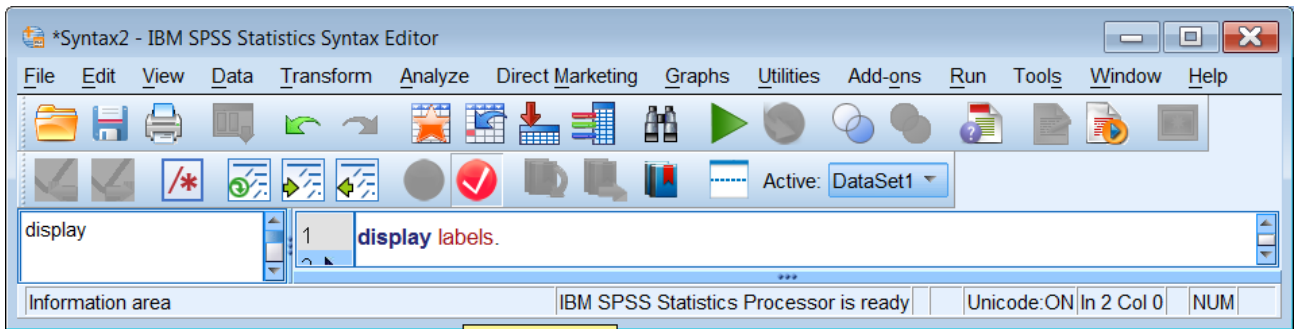
File > New > Syntax



Type in:

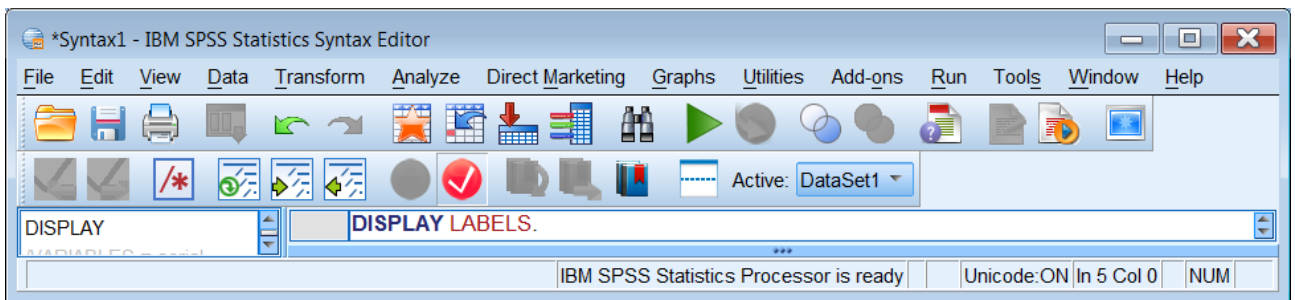
display labels.


[Don't forget the full stop!]



[NB: the display command is not available via the GUI]

If you use the SPSS prompts, it will look like this:



Press the green triangle  or **Ctrl+R** to execute the command: SPSS displays a long narrow table:

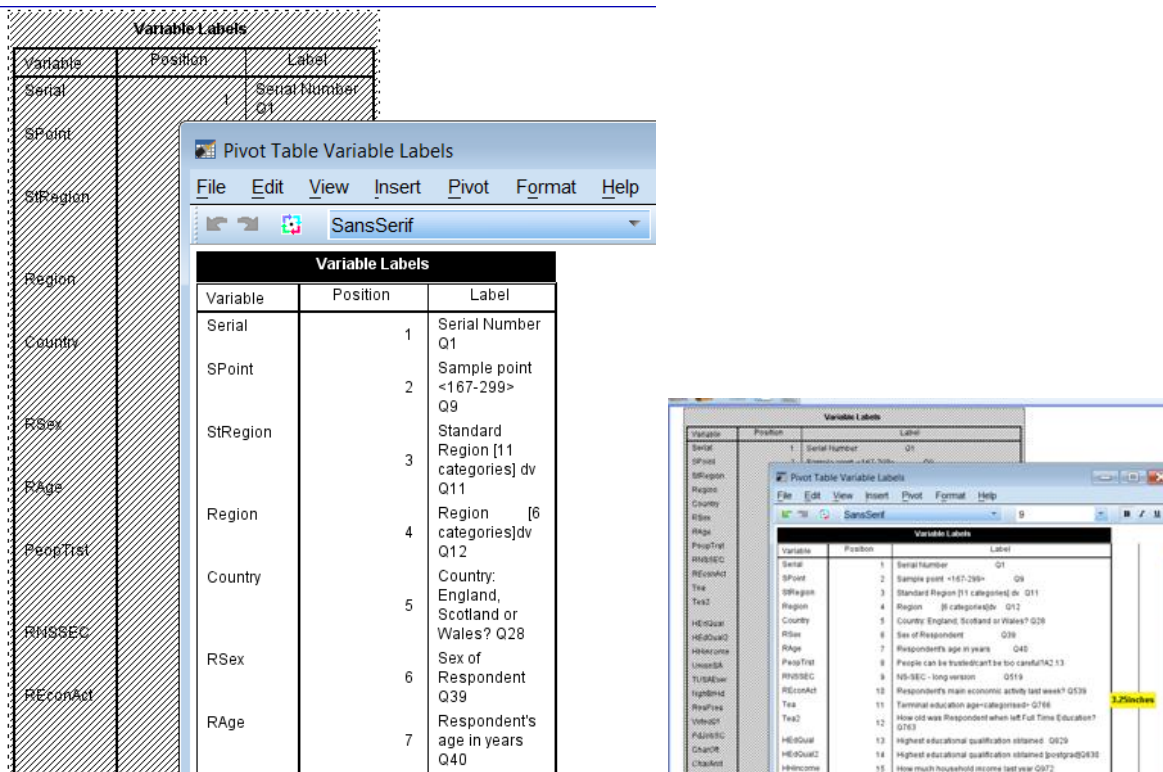
Variable Labels

Variable	Position	Label
Serial	1	Serial Number Q1
SPoint	2	Sample point <167-299> Q9
StRegion	3	Standard Region [11 categories] dv Q11
Region	4	Region [6 categories]dv Q12
~ ~ ~ ~		
qual1	48	Highest level of Qualifications (1)
qual2	49	Highest level of Qualifications (2)

Variables in the working file

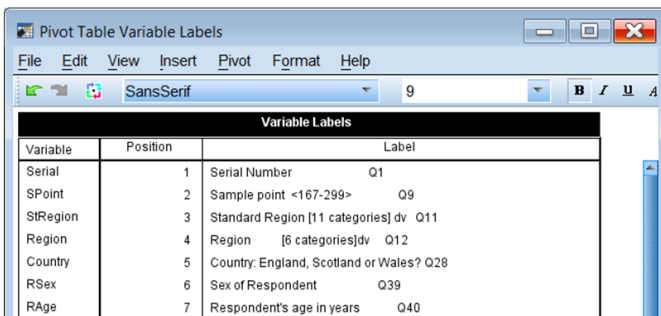
... which then needs to be widened via Pivot Tables.

In the **Viewer**, double click on the table:



and drag the right margin out far enough to get the labels on a single line.

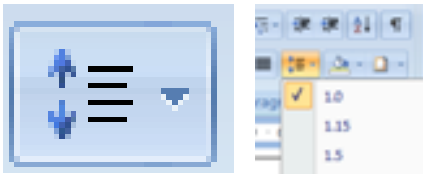
Closing the pivot table window . . .



reformats the table:

Variable Labels		
Variable	Position	Label
Serial	1	Serial Number Q1
SPoint	2	Sample point <167-299> Q9
StRegion	3	Standard Region [11 categories] dv Q11
Region	4	Region [6 categories]dv Q12
Country	5	Country: England, Scotland or Wales? Q28
RSex	6	Sex of Respondent Q39
RAge	7	Respondent's age in years Q40

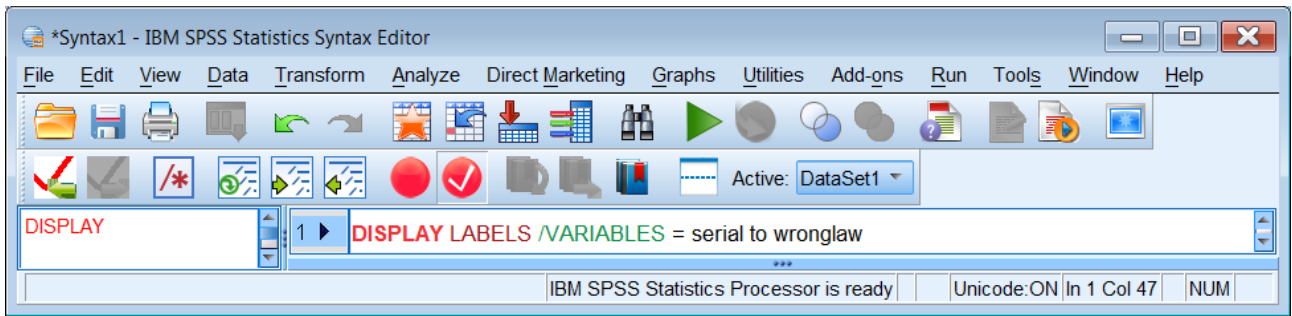
Right click > Copy can then be used to copy the table and paste it into Word with **Ctrl + V**. Even then the table is double-spaced, so when copied into Word it needs resetting to single space:



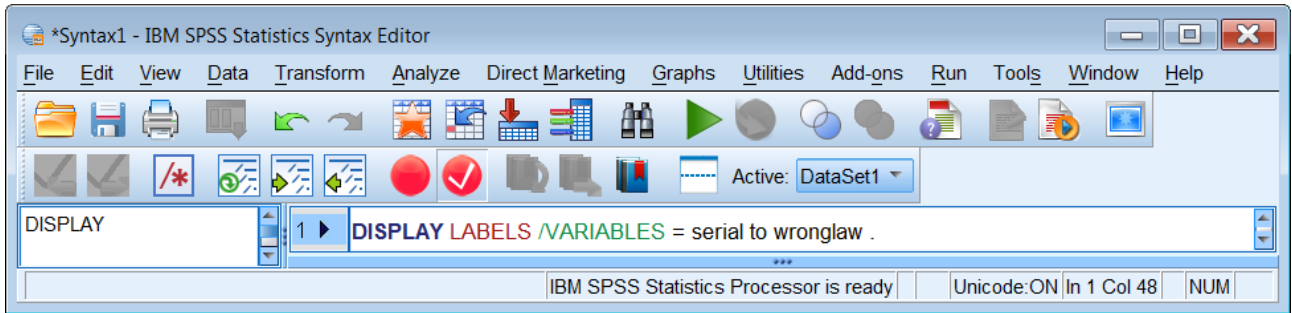
Variable	Position	Label
Serial	1	Serial Number Q1
SPoint	2	Sample point <167-299> Q9
StRegion	3	Standard Region [11 categories] dv Q11
Region	4	Region [6 categories]dv Q12
Country	5	Country: England, Scotland or Wales? Q28
RSex	6	Sex of Respondent Q39
RAge	7	Respondent's age in years Q40
PeopTrst	8	People can be trusted/can't be too careful?A2.13
RNSSEC	9	NS-SEC - long version Q519
REconAct	10	Respondent's main economic activity last week? Q539
Tea	11	Terminal education age<categorised> Q766
Tea2	12	How old was Respondent when left Full Time Education?Q763
HEdQual	13	Highest educational qualification obtained Q829
HEdQual2	14	Highest educational qualification obtained [postgrad]Q830
HHIncome	15	How much household income last year Q972
UnionSA	16	Is Respondent a member of a Trade Union/S.A.?Q604
TUSAEver	17	Has Respondent ever been a member of a TU/SA Q605
NghBrHd	18	How long Respondent lived in neighbourhood? Q632
ResPres	19	Respondent live in city/suburbs or country? Q697
Voted01	20	Did Respondent vote 2nd June 2001 in G.E.? Q834
PdJobSC	21	Respondent currently in paid work?A2.48B2.22C2.23
CharOft	22	Respondent give money to charity how often? B619
CharAmt	23	Respondent gives how much to charity per yearB620
PolitSC	24	How interested Respondent in politics? A2.10
GovRight	25	Trust people in government to do what is rightA2.11a
GovSelf	26	Politicians for what get out of itA2.11b
DemoNow	27	How well GB democracy work today? A2.25a
GrpMemb1	28	Respondent would/did join a political party?A2.6a
GrpMemb2	29	Respondent would/did join TU,profession association?A2.6b
GrpMemb3	30	Respondent would/did join church, religious associationA2.6c
GrpMemb4	31	Respondent would/did join sports/cultural groupA2.6d
GrpMemb5	32	Respondent would/did join voluntary associationA2.6e
IncDiffs	33	Income differences GB to large?A2.39aB2.13a
IncDiff	34	Government should reduce income differences.?A2.39bB2.13b
IDCards	35	Every adult should have an ID card? A2.61d
MoreWelf	36	Government should spend > on poor A2.63bBC2.44b
SocHelp	37	People not deserve any help A2.63dBC2.44d
DeathApp	38	Death penalty appropriate for some crimesA2.66cB2.47cC2.46c
WrongLaw	39	Always obey law even when law is wrongA2.66eB2.47eC2.46e
PartyId2	40	Party political identification (compressed) dvQ211
agegp1	41	Age grouped (1)
agegp2	42	Age grouped (2)
incomegp	43	Household income last year grouped
incomeg1	44	Household income last year grouped
trust	45	Attitudes towards trusting people
volgp	46	Ever been a member of a voluntary group?
volgp1	47	Currently a member of a voluntary group?
qual1	48	Highest level of Qualifications (1)
qual2	49	Highest level of Qualifications (2)

Variables in the working file

The variables are actually in two groups. The original variables are **serial** to **wronglaw**: the variables **partyid2** to **qual2** are derived. You can display groups of labels if you specify which variables you want.

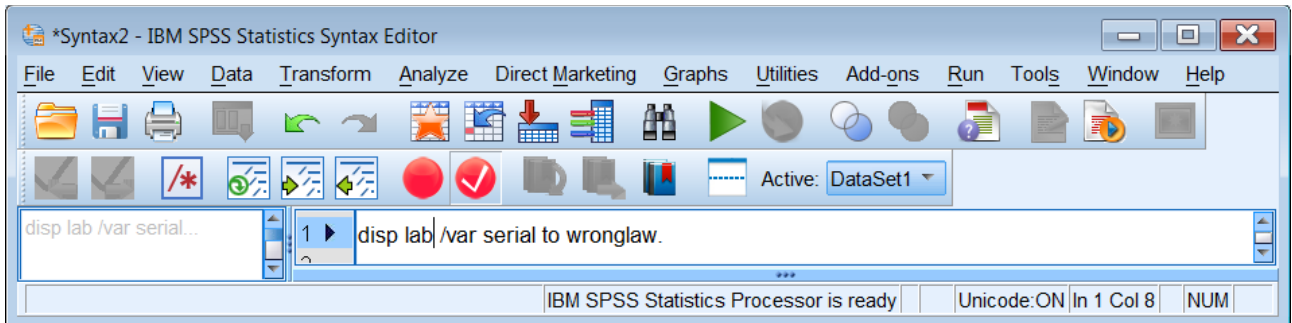


[NB: **DISPLAY** stays red until you add the full stop]

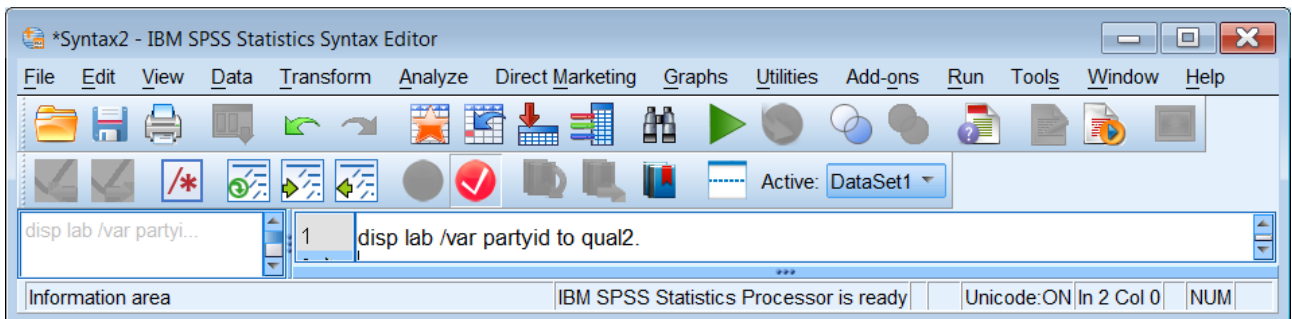



.. or you can use abbreviated syntax for

Original variables only:



Derived variables only



.. and press the green triangle  or **Ctrl+R** to execute the command(s):

Original variables only:

Variable Labels

Variable	Position	Label
Serial	1	Serial Number Q1
SPoint	2	Sample point <167-299> Q9
StRegion	3	Standard Region [11 categories] dv Q11
Region	4	Region [6 categories]dv Q12
Country	5	Country: England, Scotland or Wales? Q28
RSex	6	Sex of Respondent Q39
RAge	7	Respondent's age in years Q40
PeopTrst	8	People can be trusted/can't be too careful?A2.13
RNSSEC	9	NS-SEC - long version Q519
REconAct	10	Respondent's main economic activity last week? Q539
Tea	11	Terminal education age<categorised> Q766
Tea2	12	How old was Respondent when left Full Time Education?Q763
HEdQual	13	Highest educational qualification obtained Q829
HEdQual2	14	Highest educational qualification obtained [postgrad]Q830
HHincome	15	How much household income last year Q972
UnionSA	16	Is Respondent a member of a Trade Union/S.A.?Q604
TUSAEver	17	Has Respondent ever been a member of a TU/SA Q605
NghBrHd	18	How long Respondent lived in neighbourhood? Q632
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PdJobSC	21	Respondent currently in paid work?A2.48B2.22C2.23
CharOft	22	Respondent give money to charity how often? B619
CharAmt	23	Respondent gives how much to charity per yearB620
PolitSC	24	How interested Respondent in politics? A2.10
GovRight	25	Trust people in government to do what is rightA2.11a
GovSelf	26	Politicians for what get out of itA2.11b
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GrpMemb3	30	Respondent would/did join church, religious associationA2.6c
GrpMemb4	31	Respondent would/did join sports/cultural groupA2.6d
GrpMemb5	32	Respondent would/did join voluntary associationA2.6e
IncDiffs	33	Income differences GB to large?A2.39aB2.13a
IncDiff	34	Government should reduce income differences.?A2.39bB2.13b
IDCards	35	Every adult should have an ID card? A2.61d
MoreWelf	36	Government should spend > on poor A2.63bBC2.44b
SocHelp	37	People not deserve any help A2.63dBC2.44d
DeathApp	38	Death penalty appropriate for some crimesA2.66cB2.47cC2.46c
WrongLaw	39	Always obey law even when law is wrongA2.66eB2.47eC2.46e

Variables in the working file

Derived variables only:

Variable Labels

Variable	Position	Label
PartyId2	40	Party political identification (compressed) dvQ211
agegp1	41	Age grouped (1)
agegp2	42	Age grouped (2)
incomegp	43	Household income last year grouped
incomeg1	44	Household income last year grouped
trust	45	Attitudes towards trusting people
volgp	46	Ever been a member of a voluntary group?
volgp1	47	Currently a member of a voluntary group?
qual1	48	Highest level of Qualifications (1)
qual2	49	Highest level of Qualifications (2)

Variables in the working file

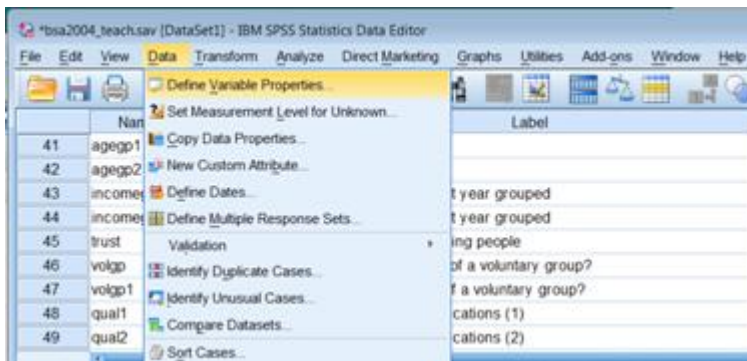
There's still a bit of tidying up needed.

Go back to **Variable View** and scroll down to the derived variables on rows 41 to 49:

	Name	Measure	Label	Values	Missing	Decimals	Width	Type	Columns	Align	Role
41	agegp1	Scale	Age grouped (1)	{1.00, 45 and under}...	None	2	8	Numeric	8	Right	Input
42	agegp2	Scale	Age grouped (2)	{1.00, Under 40}...	None	2	8	Numeric	8	Right	Input
43	incomegp	Scale	Household income last year grouped	{1.00, Less than £20,000}...	None	2	8	Numeric	8	Right	Input
44	incomeg1	Scale	Household income last year grouped	{1.00, Less than £20,000}...	None	2	8	Numeric	8	Right	Input
45	trust	Scale	Attitudes towards trusting people	{1.00, Can't be too careful}...	None	2	8	Numeric	8	Right	Input
46	volgp	Scale	Ever been a member of a voluntary group?	{-1.00, No self-compltn}...	-1.00	2	8	Numeric	8	Right	Input
47	volgp1	Scale	Currently a member of a voluntary group?	{-1.00, No self-compltn}...	-1.00	2	8	Numeric	8	Right	Input
48	qual1	Scale	Highest level of Qualifications (1)	{1.00, A-level equiv or higher}...	None	2	8	Numeric	8	Right	Input
49	qual2	Scale	Highest level of Qualifications (2)	{1.00, Degree or higher}...	None	2	8	Numeric	8	Right	Input

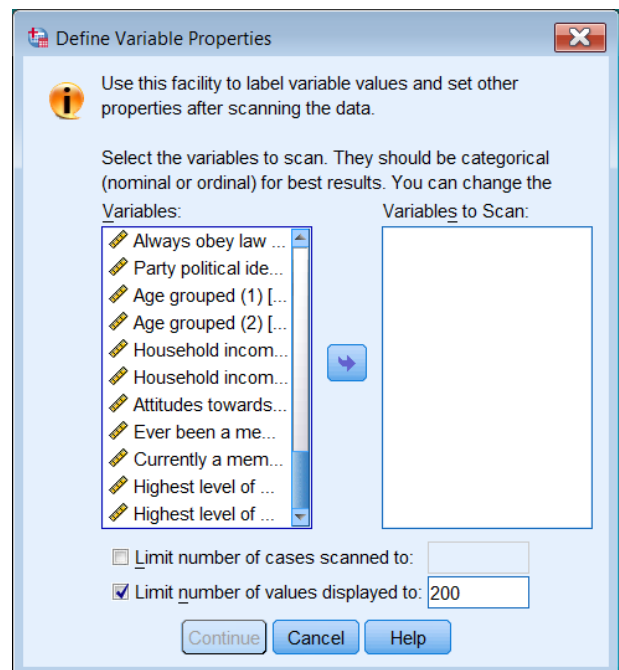
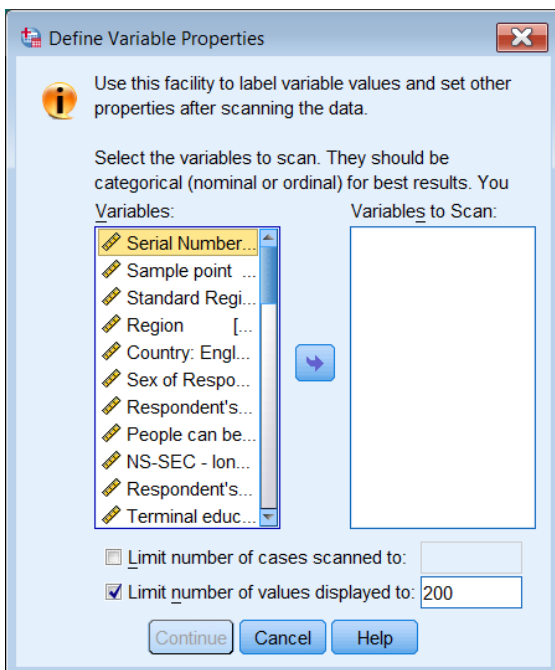
If you look at the **Decimals** column you will see that all these variables have 2 decimal places. In fact they are integers and should have no decimals. You can check by running frequency counts and also by going down the list clicking on the cells in the **Values** column and then on the blue boxes. A quicker way is to use:

Data > Define Variable Properties (DVP)

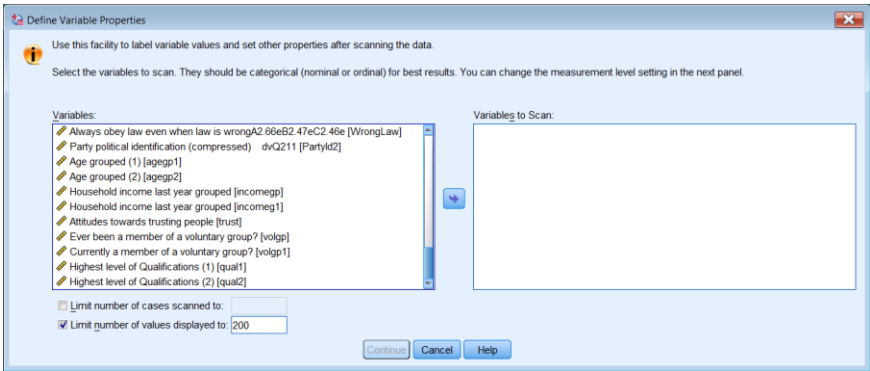


Beginning of file:

End of file:

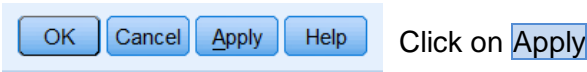
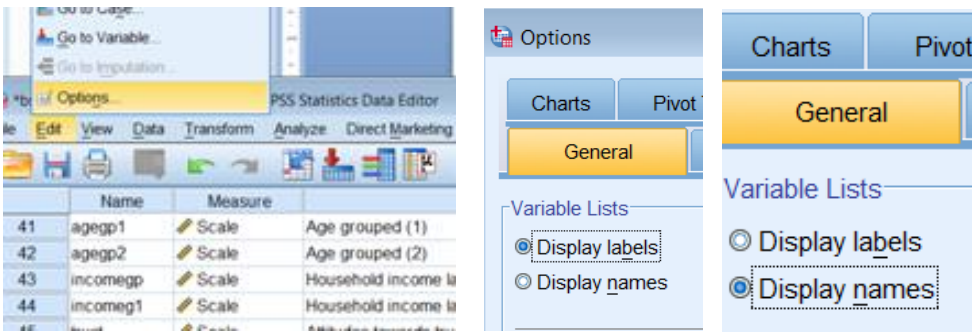


1st problem: The display is set to **labels**, not **names**. You can't see the question numbers. You can stretch the window to see them:

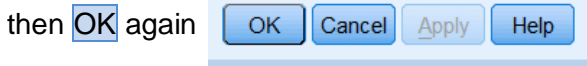
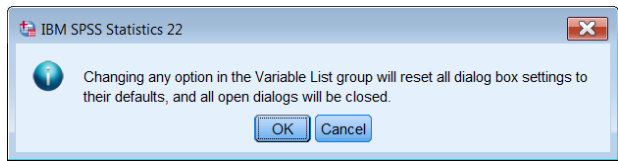


.. or change the settings to Names with:

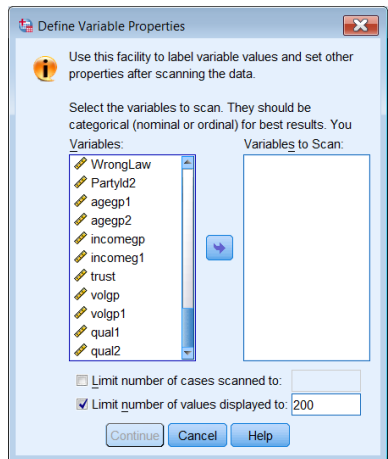
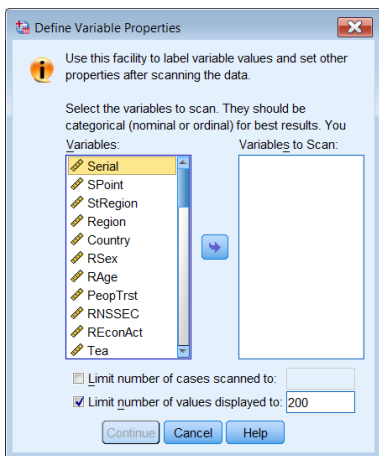
Edit > Options




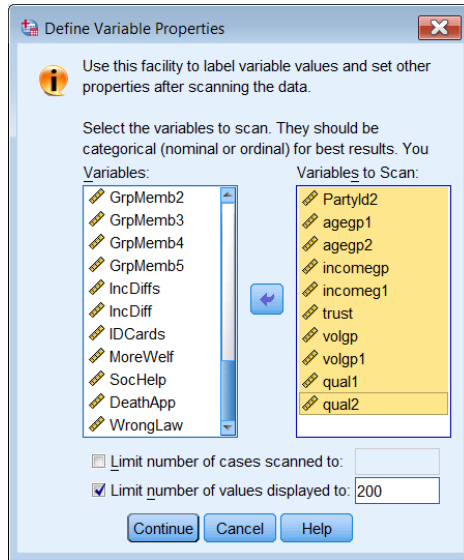
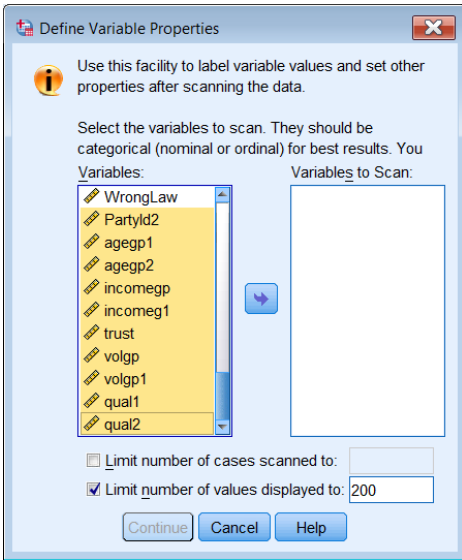
You may get a message:
Click on **OK**



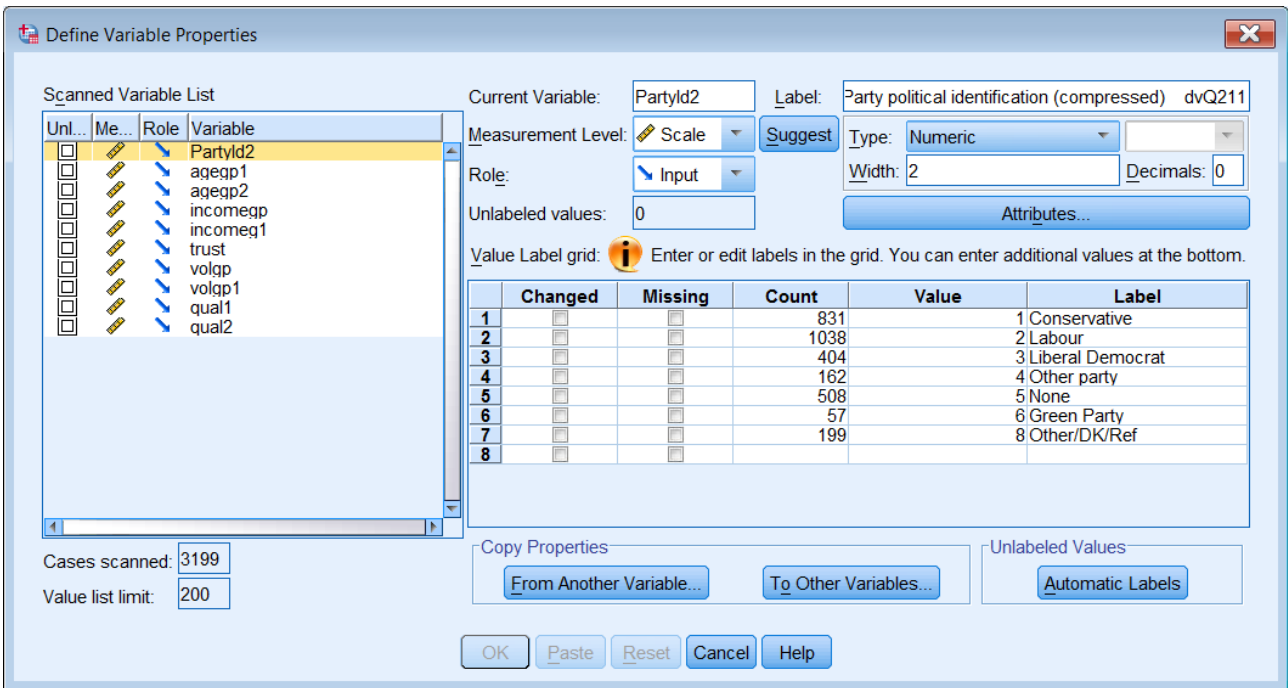
DVP now displays names instead of labels:



To check the properties of the derived variables, highlight the first one, **Partyid2** then **Shift** click on the last one **qual2** and click on the blue arrow  to transfer them to the right pane:



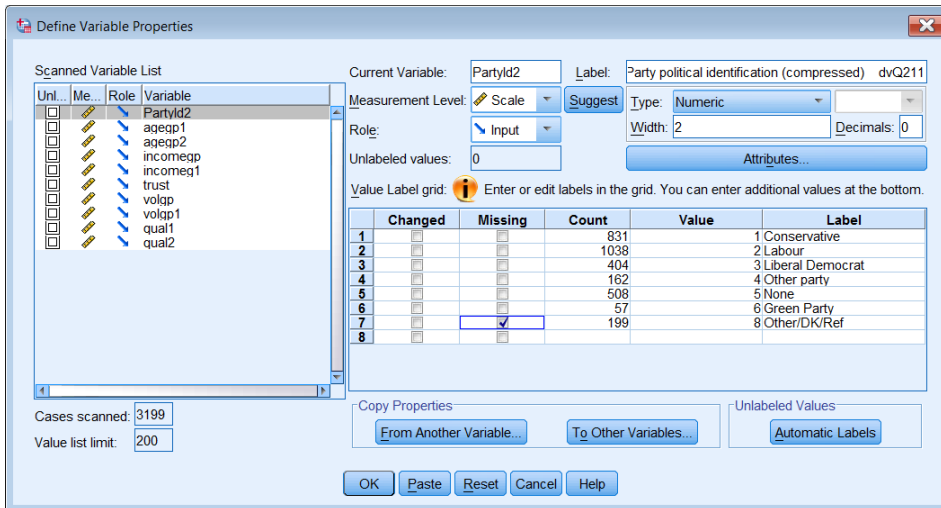
Click on **Continue** to get the following display:



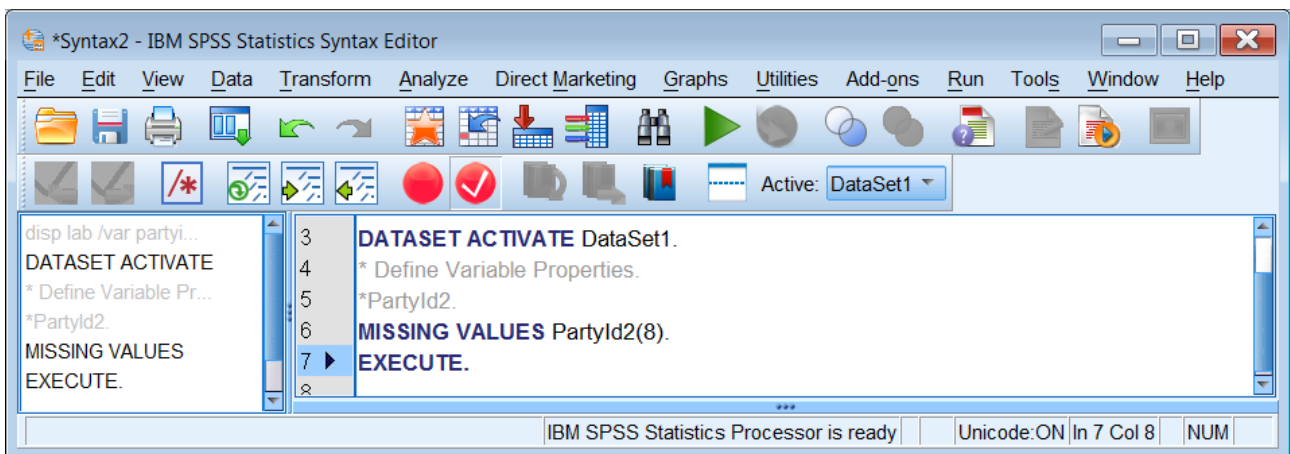
If you click on any variable in the left pane all its properties will be displayed. From this you can see that **partyid2** has 0 decimals (correct) but that value **8** (= Other/DK/Ref) has not been declared as missing (the box is not checked under **Missing**). Variables **volgp** and **volgp1** have value **-1** (= No self-compltm) which has already been declared missing (the box is checked under **Missing**):

	Changed	Missing	Count	Value	Label
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2346	-1.00	No self-compltm
2	<input type="checkbox"/>	<input type="checkbox"/>	541	.00	No
3	<input type="checkbox"/>	<input type="checkbox"/>	312	1.00	Yes
4	<input type="checkbox"/>	<input type="checkbox"/>			

For all variables from **agegp1** to **qual2** the values have 2 decimals, but they are integers resulting from a data transformation (RECODE . . INTO . .) and need to be changed to 0. These can be changed inside the Data Editor, but there will be no audit trail of what you have done. You can change the properties of any or all variables inside the DVP window: if you do this the **Paste** button (grayed out above) will become active (**Paste**) and you can use it to save the syntax generated by SPSS for any changes made. For **partyid2**, if you check the **Missing** box:



and click on **Paste** the following syntax will appear in the active **Syntax Editor**:

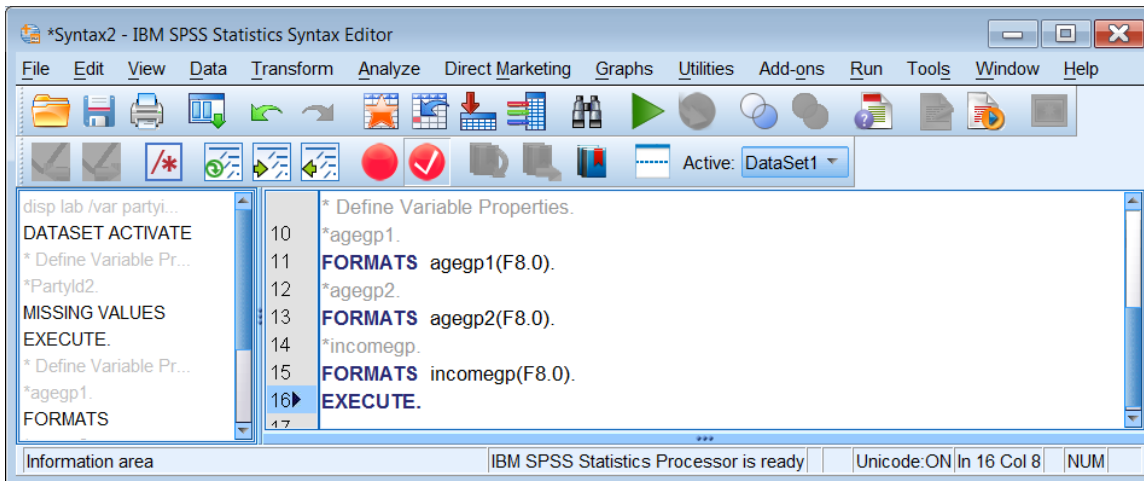


Using the DVP to change all the decimals from 2 to 0 one by one is time-consuming and produces a separate syntax command for each change.

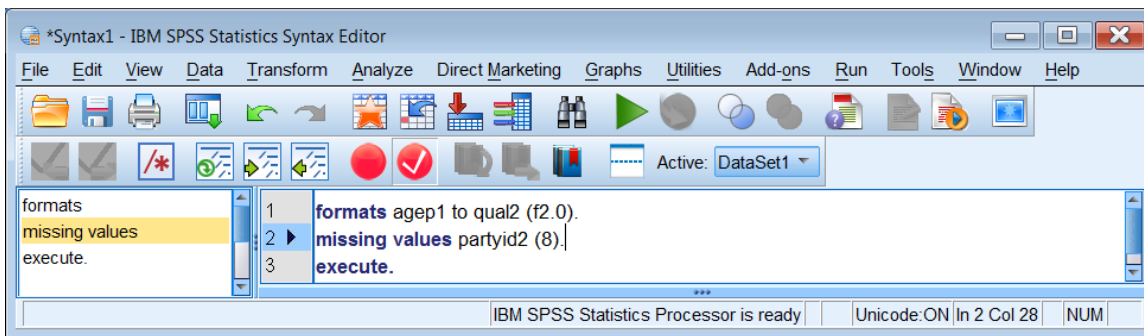
```

* Define Variable Properties.
*agegp1.
FORMATS agegp1(F8.0).
*agegp2.
FORMATS agegp2(F8.0).
*incomegp.
FORMATS incomegp(F8.0).
*incomeg1.
FORMATS incomeg1(F8.0).
*trust.
FORMATS trust(F8.0).
*volgp.
FORMATS volgp(F8.0).
*volgp1.
FORMATS volgp1(F8.0).
*qual1.
FORMATS qual1(F8.0).
*qual2.
FORMATS qual2(F8.0).
EXECUTE.

```



An alternative is to use the **FORMATS** and **MISSING VALUES** commands:



The screenshot shows the IBM SPSS Statistics Data Editor window in Variable View for the file '*bsa2004_teach.sav [DataSet1]'. The table below lists the first 10 variables:

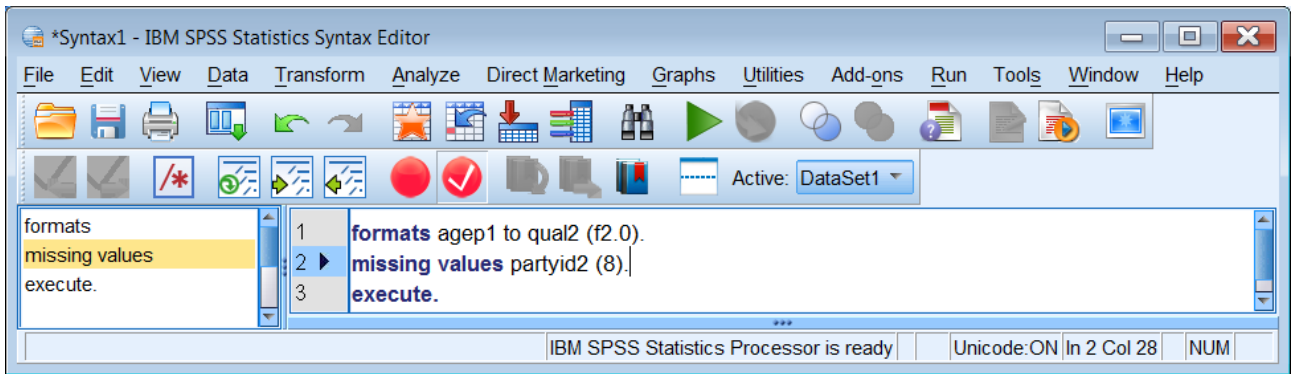
	Name	Measure	Label	Values	Missing	Decimals
1	Serial	Scale	Serial Number Q1	None	None	0
2	SPoint	Scale	Sample point <167-299> Q9	None	None	0
3	SIRegion	Scale	Standard Region [11 categories] dv Q11	{1, Scotland}...	None	0
4	Region	Scale	Region [6 categories]dv Q12	{1, Scotland}...	None	0
5	Country	Scale	Country: England, Scotland or Wales? Q28	{1, England}...	None	0
6	RSex	Scale	Sex of Respondent Q39	{1, Male}...	None	0
7	RAGE	Scale	Respondent's age in years Q40	{97, 97+}...	99	0
8	PeopTrst	Scale	People can be trusted/can't be too careful?A2.13	{-2, Skp,B+C version}...	-1, -2	0
9	RNSSEC	Scale	NS-SEC - long version Q519	{-1.0, Skp,nvr had job}...	None	1
10	REconAct	Scale	Respondent's main economic activity last week? Q539	{1, In full-time education (not paid for by}...	None	0

The status bar at the bottom indicates 'IBM SPSS Statistics Processor is ready' and 'Unicode:ON'.

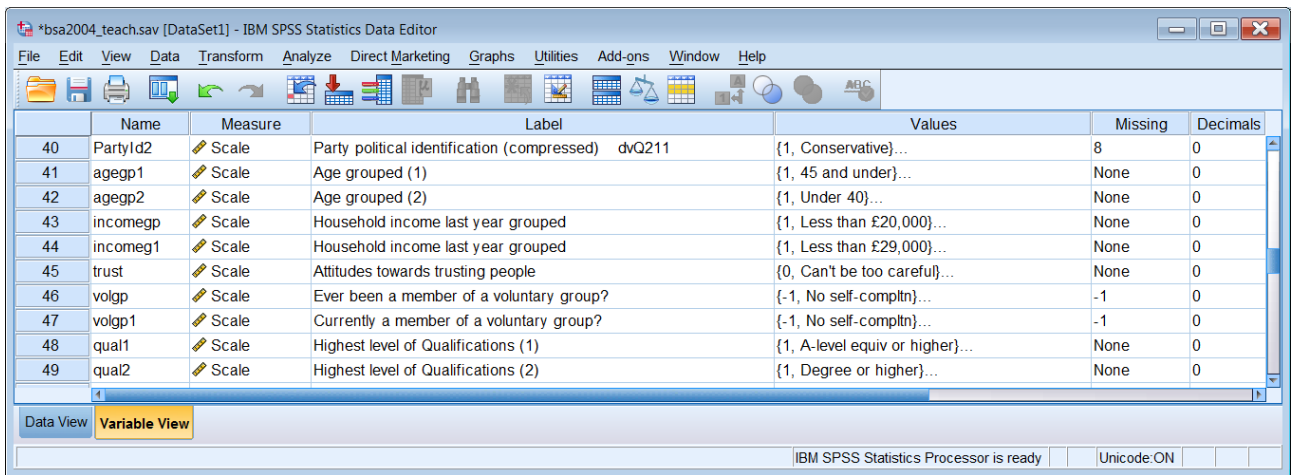
The screenshot shows the IBM SPSS Statistics Data Editor window in Variable View for the file '*bsa2004_teach.sav [DataSet1]'. The table below lists variables 40 through 49:

	Name	Measure	Label	Values	Missing	Decimals
40	Partyld2	Scale	Party political identification (compressed) dvQ211	{1, Conservative}...	None	0
41	agegp1	Scale	Age grouped (1)	{1.00, 45 and under}...	None	2
42	agegp2	Scale	Age grouped (2)	{1.00, Under 40}...	None	2
43	incomegp	Scale	Household income last year grouped	{1.00, Less than £20,000}...	None	2
44	incomeg1	Scale	Household income last year grouped	{1.00, Less than £29,000}...	None	2
45	trust	Scale	Attitudes towards trusting people	{.00, Can't be too careful}...	None	2
46	volgp	Scale	Ever been a member of a voluntary group?	{-1.00, No self-compltn}...	-1.00	2
47	volgp1	Scale	Currently a member of a voluntary group?	{-1.00, No self-compltn}...	-1.00	2
48	qual1	Scale	Highest level of Qualifications (1)	{1.00, A-level equiv or higher}...	None	2
49	qual2	Scale	Highest level of Qualifications (2)	{1.00, Degree or higher}...	None	2

The status bar at the bottom indicates 'IBM SPSS Statistics Processor is ready' and 'Unicode:ON'.

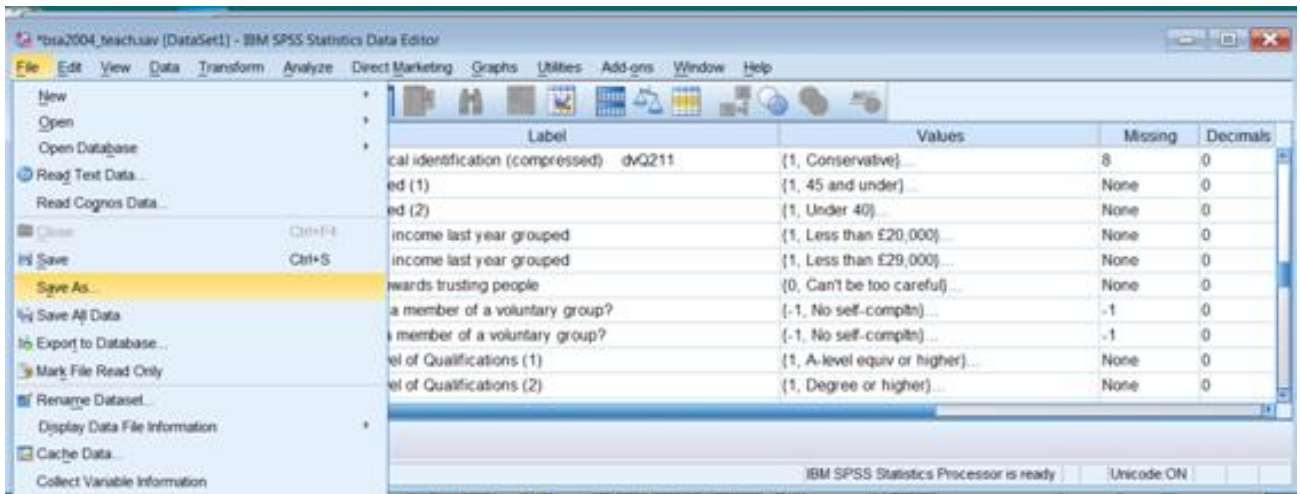


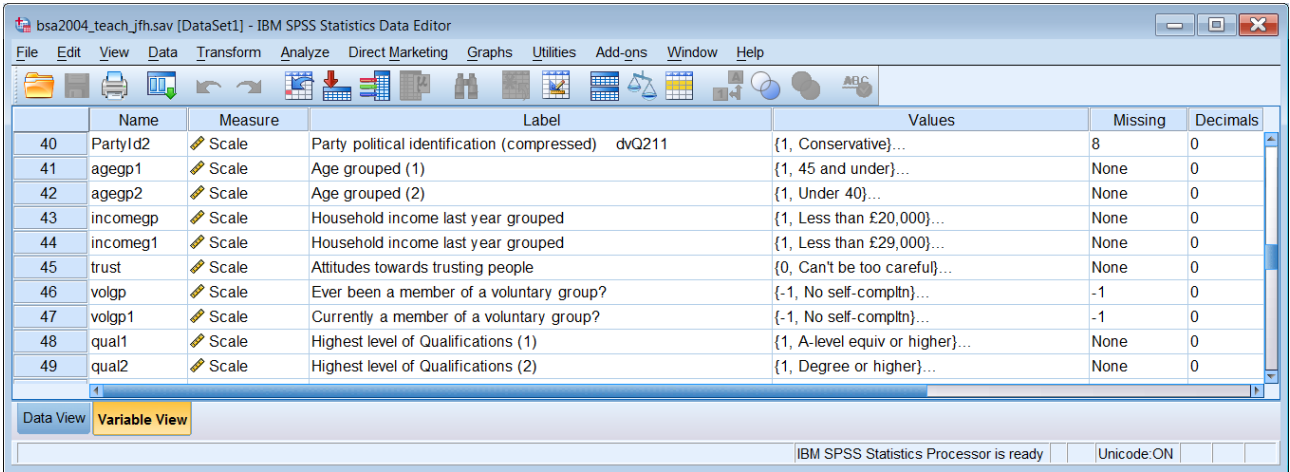
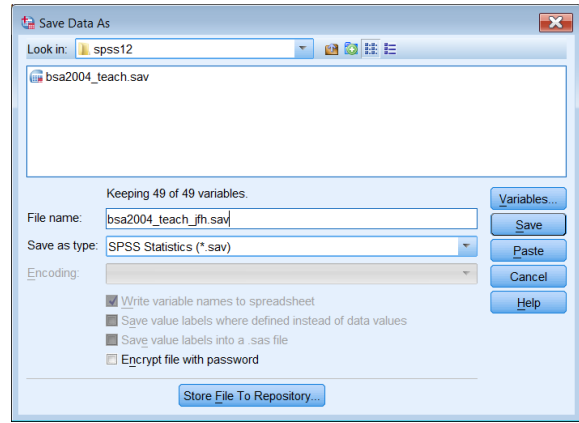
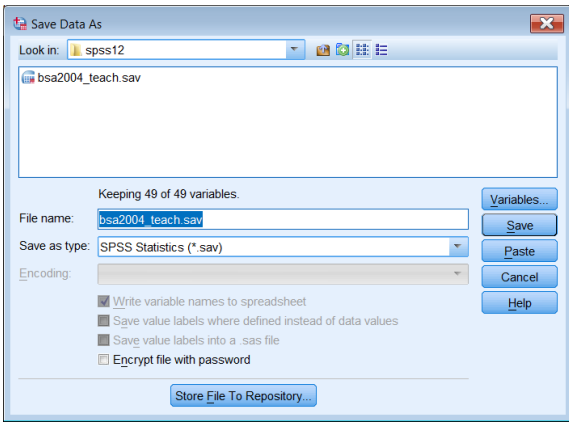
Run > All



Now save your work! [I've been naughty: should have worked on a copy, not the original]

File > Save As

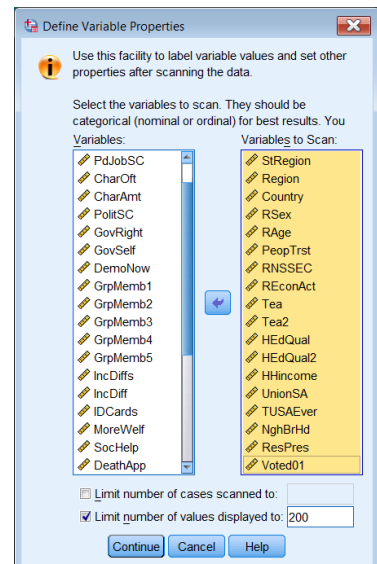
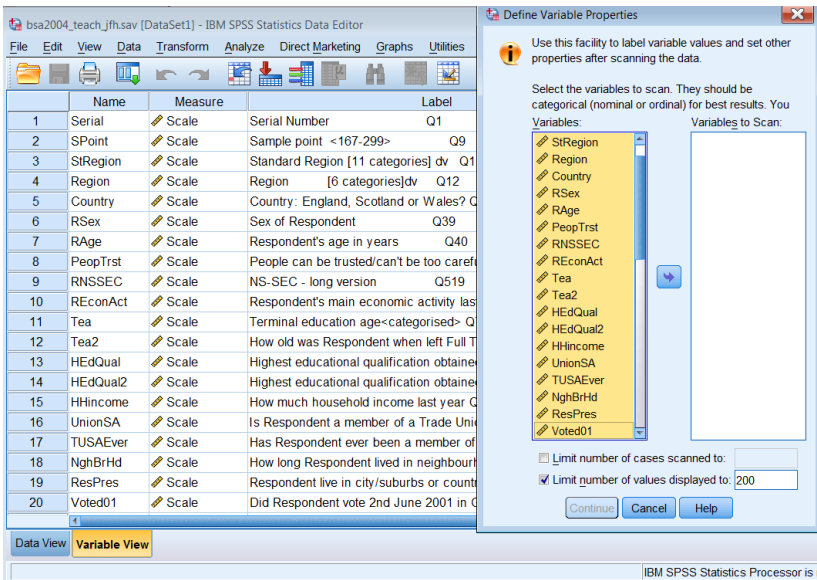




The original file is kept, and from now on you are working on your new version.

Final checks:

Data > Define Variable Properties (DVP: 20 variables at a time, except **Serial** and **SPoint**)



Define Variable Properties

Scanned Variable List

Unl...	Me...	Role	Variable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	StRegion
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Region
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Country
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RSex
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RAge
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PeopTrst
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RNSSEC
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REconAct
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tea
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tea2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HEdQual
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HEdQual2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HHincome
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UnionSA
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TUSAEver
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NghBrHd
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ResPres
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Voted01

Cases scanned: 3199
Value list limit: 200

Current Variable: StRegion Label: Standard Region [11 categories] dv Q11

Measurement Level: Scale Suggest Type: Numeric Width: 2 Decimals: 0

Role: Input

Unlabeled values: 0 Attributes...

Value Label grid: Enter or edit labels in the grid. You can enter additional values at the bottom.

	Changed	Missing	Count	Value	Label
1	<input type="checkbox"/>	<input type="checkbox"/>	331	1	Scotland
2	<input type="checkbox"/>	<input type="checkbox"/>	202	2	North East
3	<input type="checkbox"/>	<input type="checkbox"/>	312	3	North West
4	<input type="checkbox"/>	<input type="checkbox"/>	292	4	Yorkshire&Humberside
5	<input type="checkbox"/>	<input type="checkbox"/>	277	5	West Midlands
6	<input type="checkbox"/>	<input type="checkbox"/>	281	6	East Midlands
7	<input type="checkbox"/>	<input type="checkbox"/>	134	7	Eastern
8	<input type="checkbox"/>	<input type="checkbox"/>	274	8	South West
9	<input type="checkbox"/>	<input type="checkbox"/>	590	9	South East
10	<input type="checkbox"/>	<input type="checkbox"/>	322	10	London
11	<input type="checkbox"/>	<input type="checkbox"/>	184	11	Wales

Copy Properties Unlabeled Values

From Another Variable... To Other Variables... Automatic Labels

OK Paste Reset Cancel Help

Define Variable Properties

Scanned Variable List

Unl...	Me...	Role	Variable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	StRegion
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Region
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Country
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RSex
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAge
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PeopTrst
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RNSSEC
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REconAct
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tea
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tea2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HEdQual
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HEdQual2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HHincome
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UnionSA
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TUSAEver
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NghBrHd
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ResPres
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Voted01

Cases scanned: 3199
Value list limit: 200

Current Variable: RAge Label: Respondent's age in years Q40

Measurement Level: Scale Suggest Type: Numeric Width: 2 Decimals: 0

Role: Input

Unlabeled values: 76 Attributes...

Value Label grid: Enter or edit labels in the grid. You can enter additional values at the bottom.

	Changed	Missing	Count	Value	Label
60	<input type="checkbox"/>	<input type="checkbox"/>	26	77	
61	<input type="checkbox"/>	<input type="checkbox"/>	31	78	
62	<input type="checkbox"/>	<input type="checkbox"/>	32	79	
63	<input type="checkbox"/>	<input type="checkbox"/>	21	80	
64	<input type="checkbox"/>	<input type="checkbox"/>	22	81	
65	<input type="checkbox"/>	<input type="checkbox"/>	21	82	
66	<input type="checkbox"/>	<input type="checkbox"/>	19	83	
67	<input type="checkbox"/>	<input type="checkbox"/>	24	84	
68	<input type="checkbox"/>	<input type="checkbox"/>	15	85	
69	<input type="checkbox"/>	<input type="checkbox"/>	7	86	
70	<input type="checkbox"/>	<input type="checkbox"/>	16	87	
71	<input type="checkbox"/>	<input type="checkbox"/>	8	88	
72	<input type="checkbox"/>	<input type="checkbox"/>	7	89	
73	<input type="checkbox"/>	<input type="checkbox"/>	7	90	
74	<input type="checkbox"/>	<input type="checkbox"/>	2	91	
75	<input type="checkbox"/>	<input type="checkbox"/>	3	92	
76	<input type="checkbox"/>	<input type="checkbox"/>	1	94	
77	<input type="checkbox"/>	<input type="checkbox"/>	1	97 97+	
78	<input type="checkbox"/>	<input type="checkbox"/>	0	98 Don't know	
79	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6	99 Not answered	
80	<input type="checkbox"/>	<input type="checkbox"/>			

Copy Properties Unlabeled Values

From Another Variable... To Other Variables... Automatic Labels

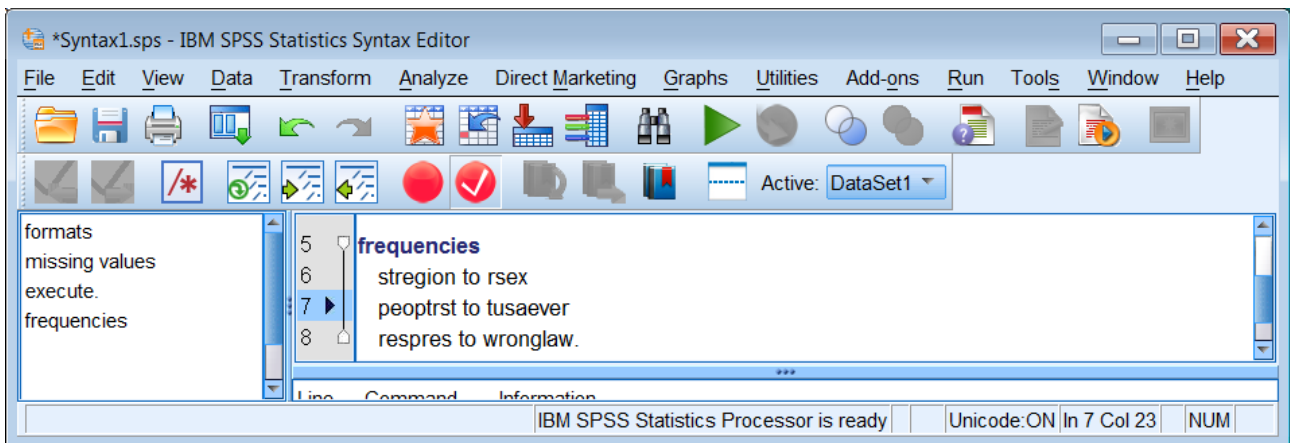
OK Paste Reset Cancel Help

77	<input type="checkbox"/>	<input type="checkbox"/>	1	97 97+
78	<input type="checkbox"/>	<input type="checkbox"/>	0	98 Don't know
79	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6	99 Not answered
80	<input type="checkbox"/>	<input type="checkbox"/>		

As you work your way down the list you will see that -3, -2 and -1 have (mostly) been declared as missing (skipped) but that codes 8, 9, 98 and 99 have not, even though have been labelled as Don't know, Refused, Can't choose etc. Code 97 is also used = Other uncodeable? You need to deal with this before running any analysis. You may find it easier to work down the list and check the **Missing** boxes where applicable, but you need to use **Paste** to collect the syntax. If you click **OK** the changes will be effected, but you will have no syntax and therefore no audit trail.

However there is still a further problem. SPSS allows up to three discrete missing values, but many of the variables in this file actually have more than three values to be treated as missing (eg **TUSAever** has four: -3, -1, 8 and 9) SPSS allows two of the specified missing values to be the lower and upper limits of a **range** of values eg (77 thru 99) One way round this is to recode the positive values 8 and 9 to -8 and -9 and specify the missing values as (-9 thru -1).

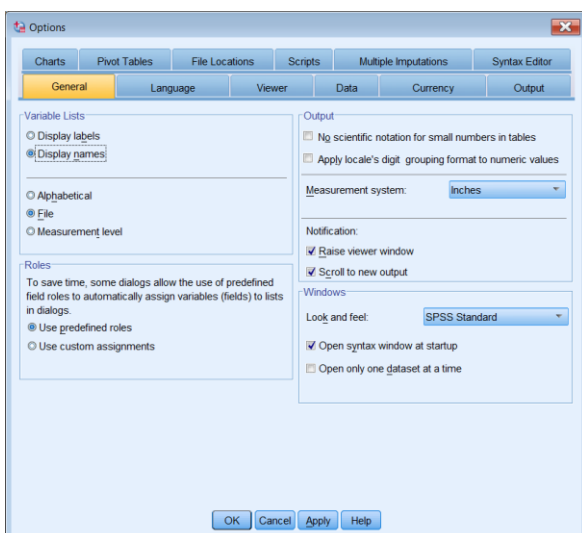
The safest thing to do is to run frequency counts first, but some variables have many values, so don't print them up if you want to save paper.



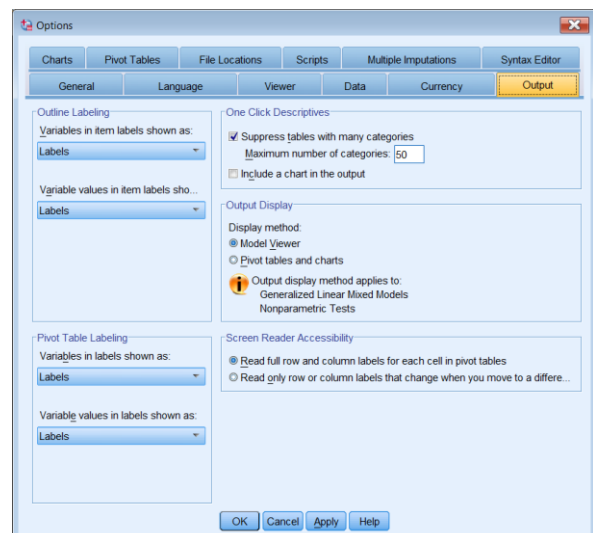
You can then work your way through the frequency counts and build up a single **missing values** command for variables with three or fewer missing values and then separate **recode** and **missing values** commands for the others. Personally I would recode all the positive missing values to negative and just use (-99 thru -1) but this entails changing the value labels to match.

To do this accurately you need to change the settings to print both variable **names** and **labels** and also **values** and **labels** on output.

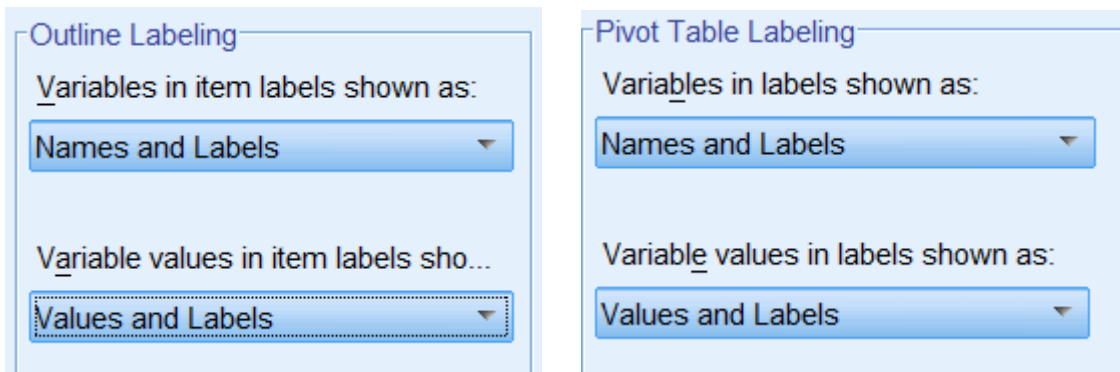
Edit > Options



Click on **Output**



Change **Labels** to **Names and Labels** in both Outline Labeling and Pivot Table Labeling in the left hand side of the window:



.. then click on **Apply**, then **OK**

If you scroll down the **Measure** column, you will see that all variables are **Scale**: none are specified as **Nominal** or **Ordinal**. Again these can be changed manually inside the **Data Editor** but there will be no audit trail. It's better to use the DVP and **Paste**, and even better to write a separate **VARIABLE LEVEL** command. Some variables appear to be **Ordinal**, but are only partially ordered, so you need to make decisions about whether to treat them as **Nominal** or recode them into ordered categories. Some variables are binary and can be treated at any level.

The following SPSS program will make the necessary modifications:

```

title 'Corrections to bsa04_teach_jfh.sav'.

formats agegp1 to qual2 (f3.0).

variable level
  stregion to rsex reconact unionsa tusaever voted01
  partyid2 agegp1 pdjobsc incomegp to qual2
  (nominal)
  peoptrst rnssec tea tea2 hedqual hedqual2
  hhincome respres charoft to demonow
  grpmemb1 to wronglaw agegp2
  (ordinal)
  serial spoint rage nghbrhd
  (scale).

missing values
  partyid2 hedqual charoft (8)
  hedqual2 (9)
  respres voted01 pdjobsc (8 9)
  idcards (-1 -2 9)
  morewelf (-1 9)
  unionsa pdjobsc sochelp deathapp wronglaw (-1 8 9)
  charoft (-2 8 9)
  rnssec (-1, 98 99)
  reconact (98 99)
  tea tea2 (97 98 99)
  hhincome (97, 98)
  nghbrhd (98 99)
  partyid2 (8).

```

recode

```
peoptrst tusaever charamt politsc govright govself  
grpmemb1 to grpmemb5 incdiff incdiffs  
(8=-8)(9=-9)  
/rnssec  
(99=-99)  
/demonow (98 = -98)(99 = -99).
```

missing values

```
peoptrst tusaever charamt politsc govright govself  
grpmemb1 to grpmemb5 incdiffs incdiff rnssec demonow  
(-99 thru -1).
```

add value labels

```
peoptrst govself politsc govright  
grpmemb1 to grpmemb5 incdiffs incdiff  
-8 "Can't choose"  
-9 'Not answered'  
/tusaever charamt -8 "Don't know" -9 'Not answered'  
/demonow  
-98 "Can't choose"  
-99 'Not answered'.
```

Finally, there is the problem of the question numbers being at the end of the variable labels. These can be moved to the beginning manually as there are only 49 variables, but the full survey has more than 800!

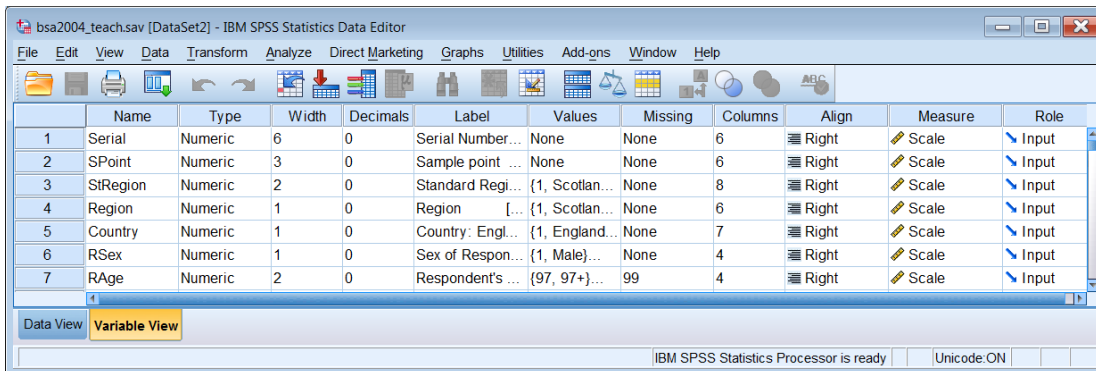
Variable labels were modified for the 2011 survey using a neat piece of Python code supplied to my specifications by Jon Peck (Senior Software Engineer, IBM/SPSS) but it needs some minor modifications for the 2004 survey as the variable labels are not quite in the same format.

Once I have the data organised to my satisfaction, I plan to produce some tabulations demonstrating how to use percentages in contingency tables to illustrate what the models in the book are trying to do, a process known as **elaboration**.

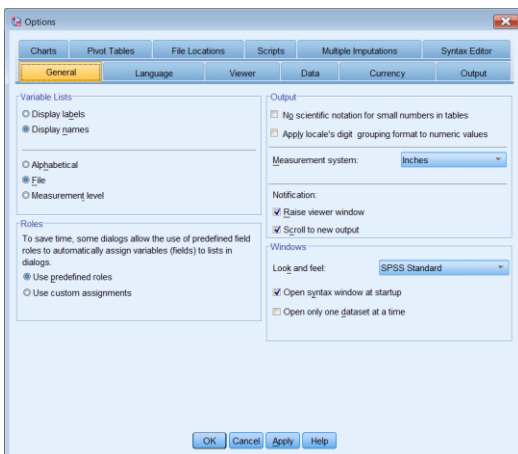
Appendix 1

Changing SPSS settings for the Data Editor

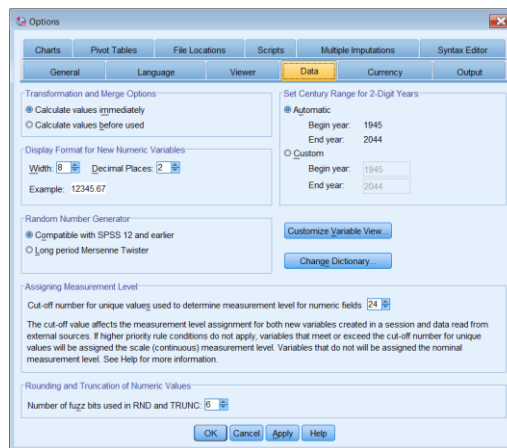
You can change the number and order of columns displayed in the **Data Editor**:



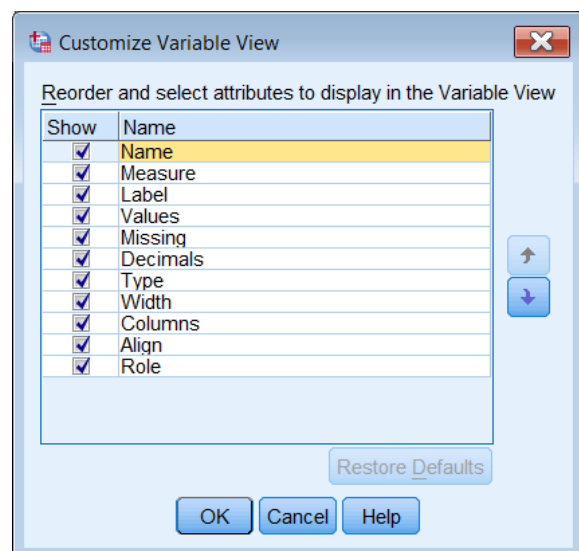
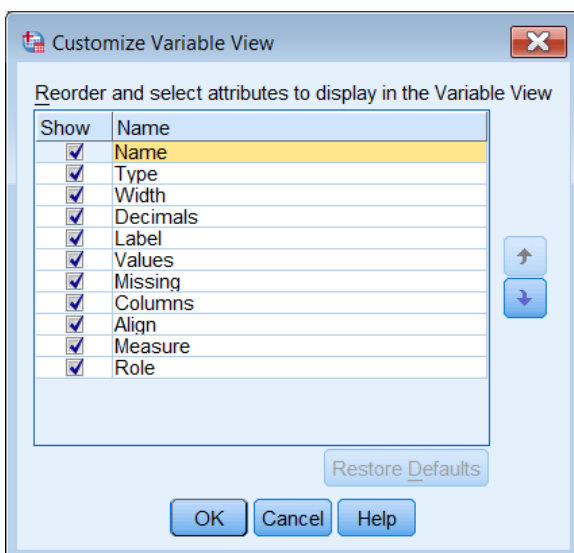
Click on **Edit > Options**:

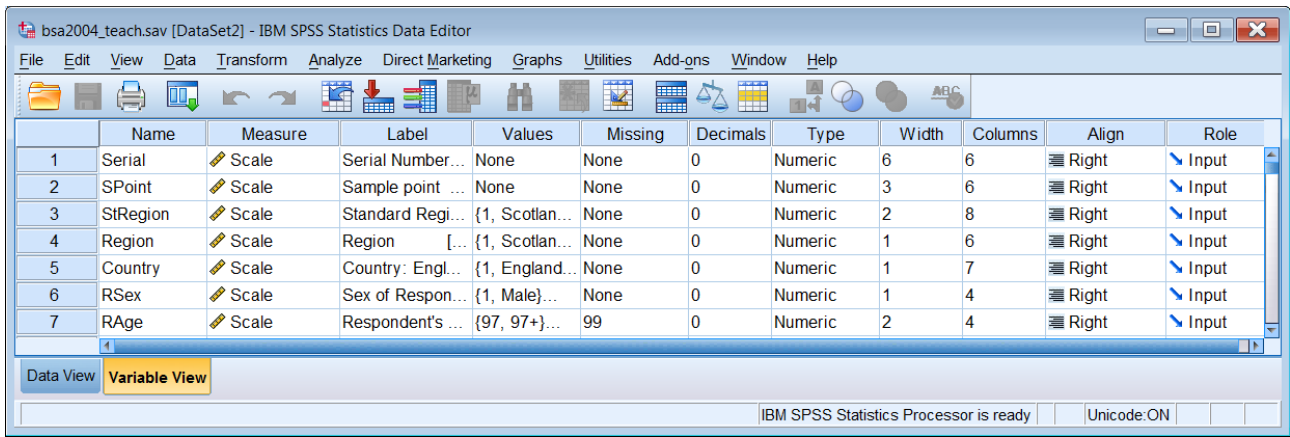


Click on **Data >**

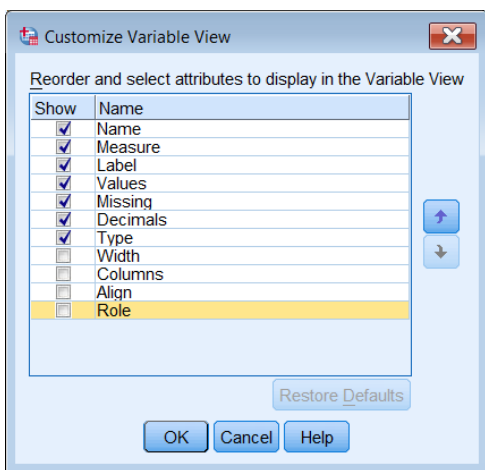



Click on **Customize Variable View...** You can move the attributes up or down using the arrows:

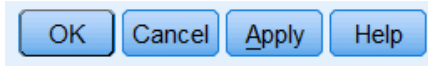





or uncheck them so they don't display at all:



Click  to go back to **Customise** menu:



Click on  then  to go back to the **Data Editor**

