Introduction to SPSS

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Lead Organizer, Health Research ToolBox: A Step by Step Guide for Beginners Founder, Center for Health Innovation, Research, Action, and Learning





Opening a Data File (Con..)

To open a data file:

From the menus choose:

 $\mathsf{File} > \mathsf{Open} > \mathsf{Data}..$

Opening a Data File (Con..)

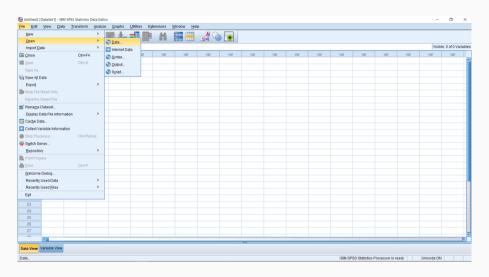


Figure 1: 1st step

Opening a Data File (Con..)

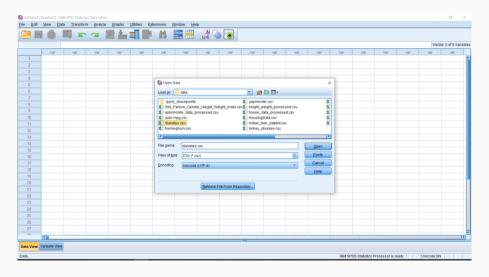


Figure 2: 2nd step

Opening a Data File

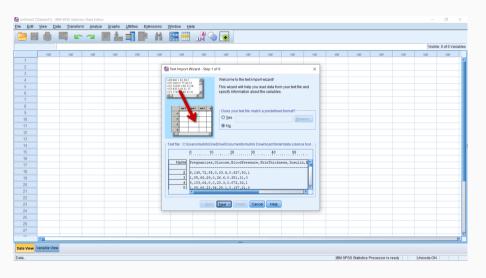


Figure 3: 3rd step

Running an Analysis (Con..)

To run an analysis:

From the menus choose:

 ${\sf Analyze} > \!\! {\sf Descriptive} \ {\sf Statistics} > \!\! {\sf Frequencies}...$

Running an Analysis (Con..)

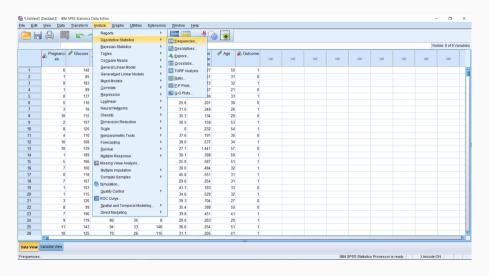


Figure 4: 1st step

Running an Analysis (Con..)

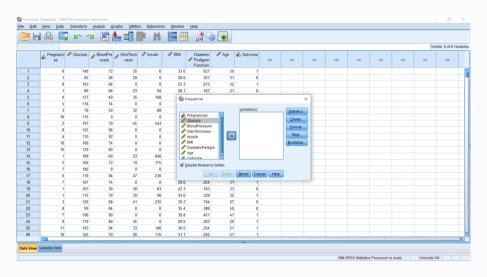


Figure 5: 2nd step

Running an Analysis

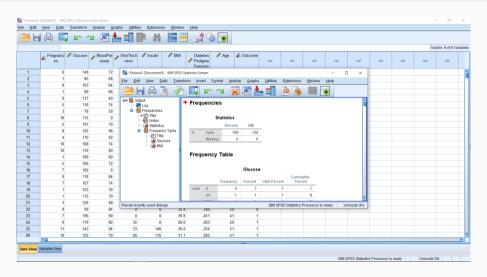


Figure 6: 3rd step

An icon next to each variable provides information about data type and level of measurement

	Numeric	String	Date	Time
Scale (Continuous)		n/a		€
Ordinal		a		
Nominal		a		

Viewing Result

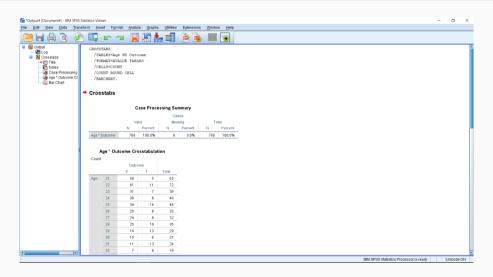


Figure 7: Result View

Creating Charts (Con..)

To create a chart:

From the menus choose:

- Graphs > Graph Template Chooser/ Legacy Dialogues...
- Click the Gallery tab (if it is not selected).
- Select Chart / variables (if it is not selected).
- Click OK to create the chart.

Created Chart

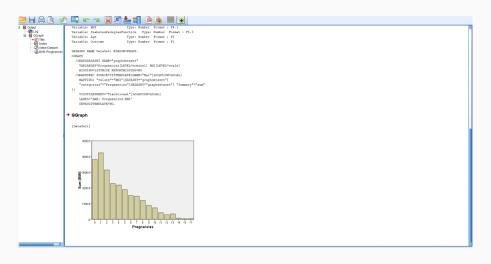
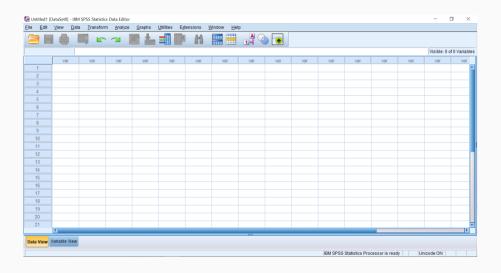


Figure 8: Created Graph

SECTION-II Reading Data

Basic Structure of IBM SPSS Statistics Data Files

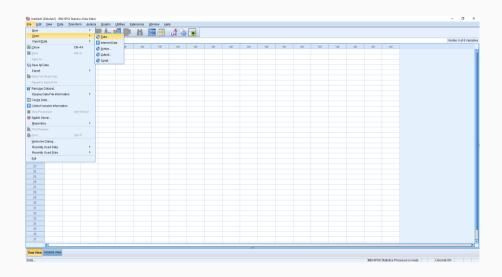


Reading IBM SPSS Statistics Data Files (Con..)

From the menus choose:

- File >Open >Data...
- Browse to and open demo.sav.

Reading IBM SPSS Statistics Data Files (Con..)



Reading IBM SPSS Statistics Data Files

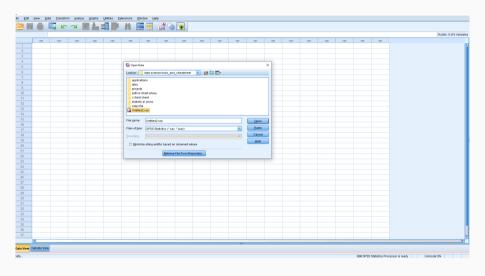


Figure 9: Select Data file from directory

Reading Data from Spreadsheets (Con..)

From the menus choose:

- File >Open >Data...
- Browse to and open demo.xls.
- Make sure that Read variable names from the first row of data is selected.
- Click OK to read the Excel file.

Reading Data from Spreadsheets (Con..)

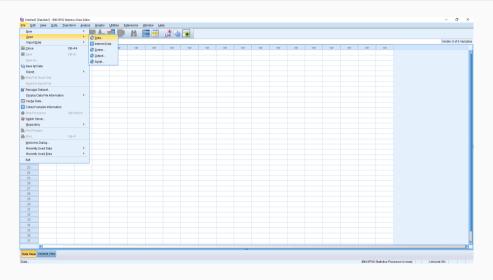


Figure 10: 1st step

Reading Data from Spreadsheets

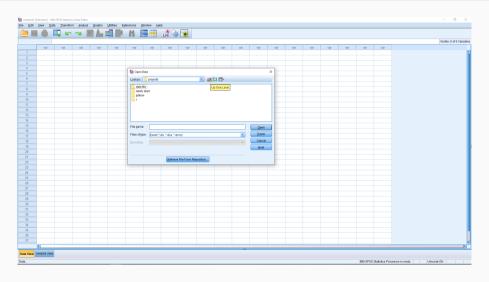


Figure 11: 1st step

Reading Data from Others

Reading data from others source like - csv,database and text file is same as spreadsheets, SPSS files.

SECTION-III Create or Edit

Dataset Using the Data Editor

Entering Numeric Data/ Creating Dataset (Con..)

• Click the Variable View tab at the bottom of the Data Editor window.



- In the first row of the first column, type age.
- In the second row, type marital.
- In the third row, type income.

Entering Numeric Data/ Creating Dataset (Con..)

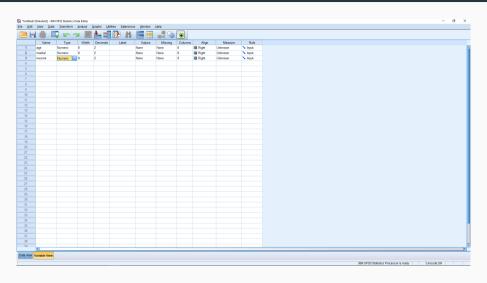
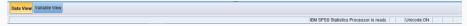


Figure 12: Select Numeric Data Type

Entering Numeric Data/ Creating Dataset (Con..)

• Click the Data View tab to continue entering the data.



- In the age column, type 55.
- In the marital column, type 1.
- In the income column, type 72000.

Entering Numeric Data/ Creating Dataset

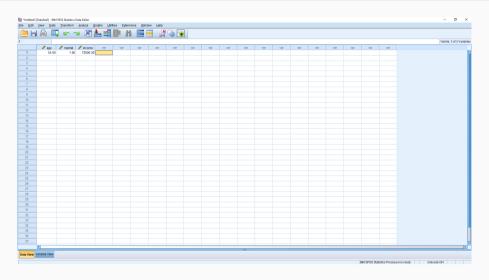


Figure 13: Numeric Data Entry

Entering String Data (Con..)

- Click the Variable View tab at the bottom of the Data Editor window.
- In the first cell of the first empty row, type name for the variable name.
- Click the Type cell next to your entry.
- Click the button on the right side of the Type cell to open the Variable Type dialog box.
- Select String to specify the variable type.
- Click OK to save your selection and return to the Data Editor.

Entering String Data (Con..)

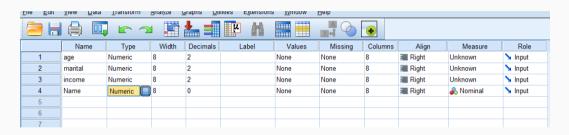


Figure 14: Click on Three Dots

Entering String Data

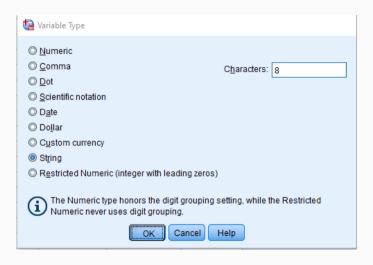


Figure 15: Select Variable Type

Adding Variable Labels (Con..)

- Click the Variable View tab at the bottom of the Data Editor window.
- In the Label column of the age row, type Respondent's Age.
- In the Label column of the marital row, type Marital Status.
- In the Label column of the income row, type Household Income.
- In the Label column of the name row, type Respondent's Name.

Adding Variable Labels

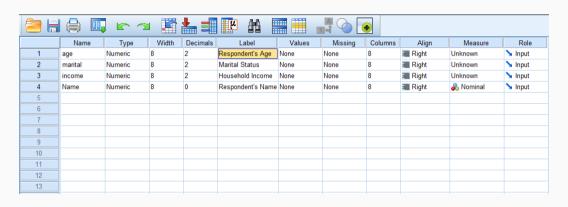


Figure 16: Labeling Variable

Adding Value Labels for Numeric Variables and String Variables (Con..)

- Click the Variable View tab at the bottom of the Data Editor window. Create a new variable - sex and it's Label is Gender and Type is String.
- Click the Values cell in the sex row, and then click the button on the right side of the cell to open the Value Labels dialog box.
 - Type F in the Value field, and then type Female in the Label field.
 - Type M in the Value field, and then type Male in the Label Field.
- Or for marital row -
 - The value label is the string label that is applied to the specified numeric value.
 - Type 0 in the Value field.
 - Type Single in the Label field.

Adding Value Labels for Numeric Variables and String Variables (Con..)

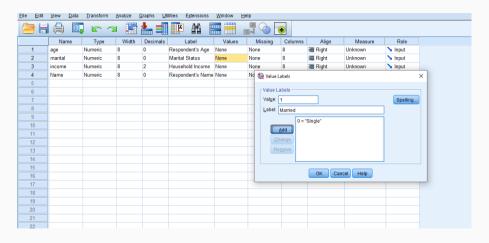


Figure 17: Numeric Variable

Adding Value Labels for Numeric Variables and String Variables

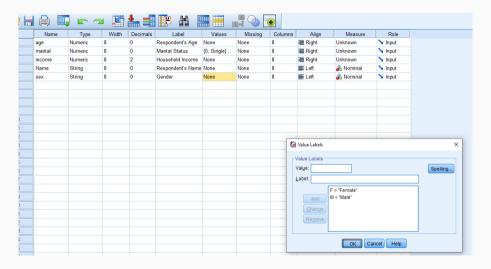


Figure 18: String Variable

Thank You