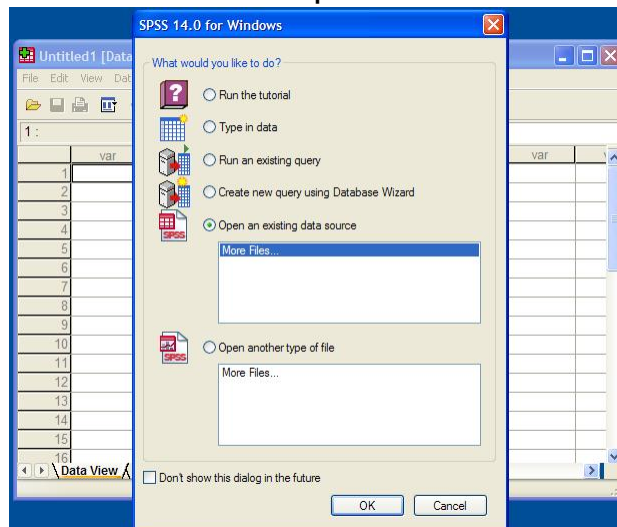
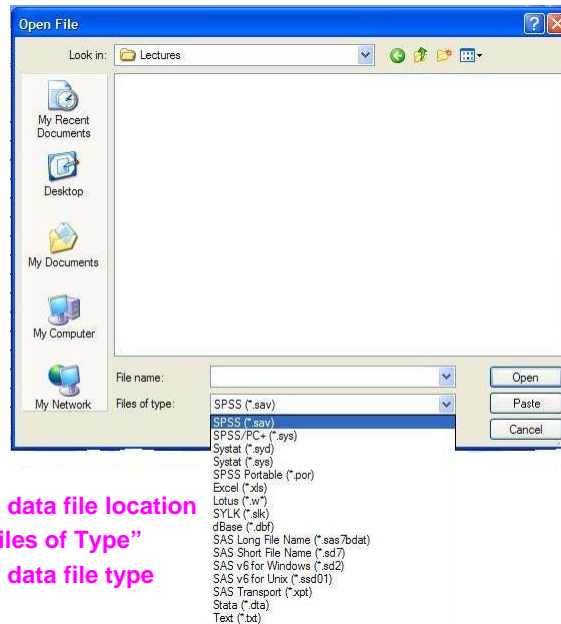


## SPSS Tutorial for a one-sample t-test on the mean



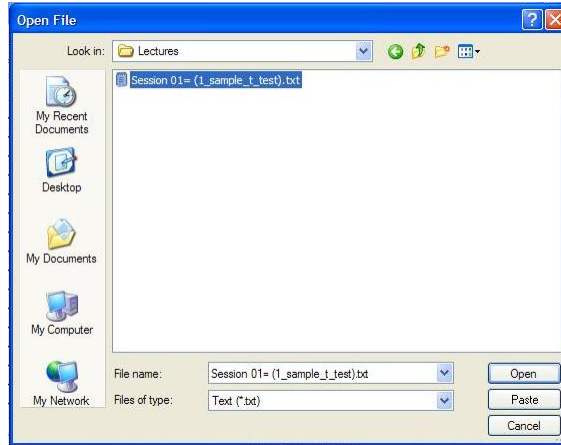
- Start SPSS
- **“Open existing data source”** selected by default
- Click “OK”

1



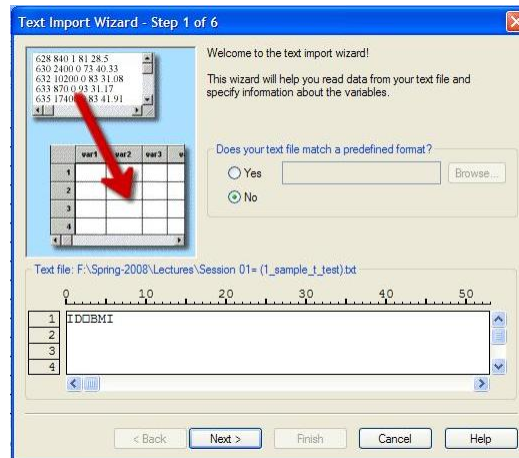
- Navigate to data file location
- Click on “Files of Type”
- Select your data file type

2



- Select 'Session 01= (1\_sample\_t\_test).txt' file
- Click on "Open"

3



- By default, "No" is selected. (Later you can use the same format settings for reading data from different files)
- Click on "Next"

4

The screenshot shows the 'Text Import Wizard - Step 2 of 6' dialog box. The 'Delimited' radio button is selected under 'How are your variables arranged?'. The 'Yes' radio button is selected under 'Are variable names included at the top of your file?'. The text file path is 'F:\Spring-2008\Lectures\Session 01= (1\_sample\_1\_test).txt'. A data preview window shows the first four lines of the file: 'ID| BMI', '1| 23', '2| 25', and '3| 21'. To the right, a Notepad window titled 'Session 01= (1\_sample\_1\_test).txt - Notepad' displays the full content of the file, which is a table with two columns: ID and BMI. The data rows are as follows:

ID	BMI
1	23
2	25
3	21
4	37
5	39
6	21
7	23
8	24
9	32
10	37
11	23
12	26
13	31
14	45

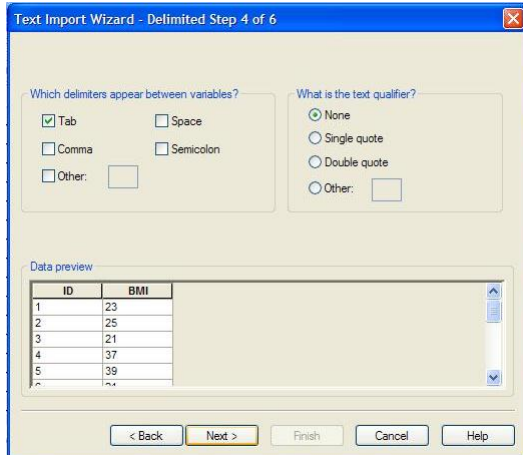
- Variables Arranged: Delimited (tab)
- Names at top: “Yes”
- Click on “Next”

5

The screenshot shows the 'Text Import Wizard - Delimited Step 3 of 6' dialog box. The 'The first case of data begins on which line number?' field is set to 2. Under 'How are your cases represented?', the 'Each line represents a case' radio button is selected. Under 'How many cases do you want to import?', the 'All of the cases' radio button is selected. A data preview window shows the first four lines of the file, which are empty, indicating that the data starts from line 2.

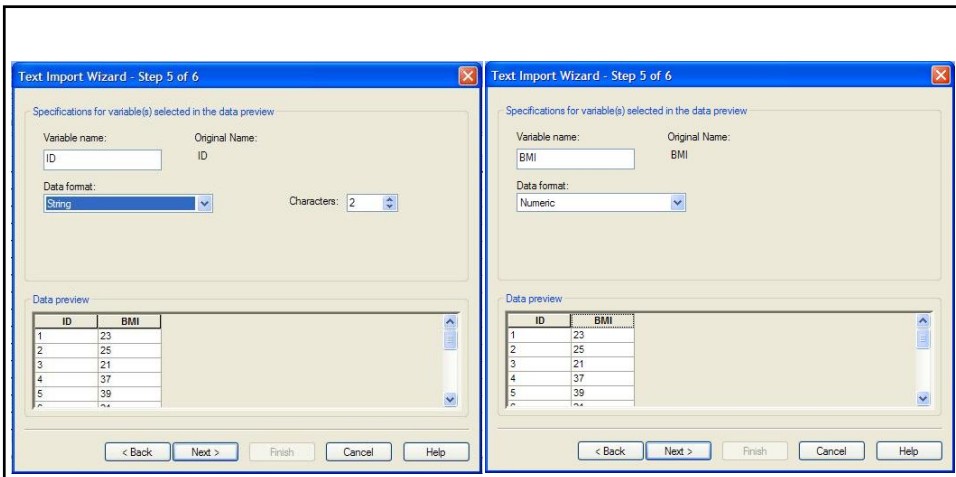
- First case line number: 2 by default since variable names in first line
- Cases represented: all data for a subject in one line
- How many cases to import: “All” by default
- Click on “Next”

6



- Delimiters: Tab (preselected by software by scanning data)
- Text qualifier: None by default
- Preview of variable names and data
- Click on “Next”

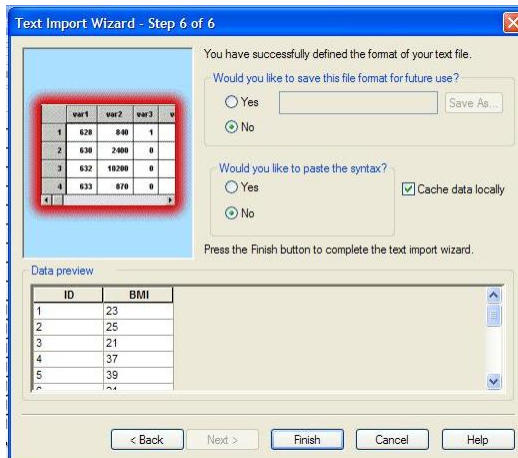
7



**VARIABLE PROPERTIES**

- Click in ID header: “String”; 2 characters
- Click on BMI header: “Numeric”
- Click on “Next”

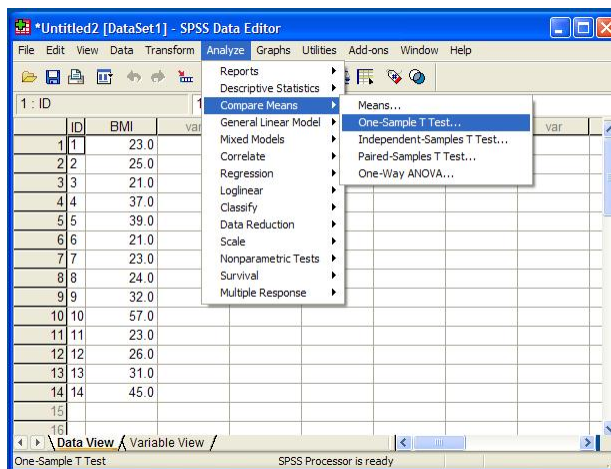
8



**FORMAT DEFINITION COMPLETE**

- Save Format to file?: “No” by default
- Paste Syntax?: “No” by default
- Click on “Finish”

9



**Data Imported (check visually for consistency)**

**REQUESTING One-sample t-test:**

- “Analyze”; “Compare Means”; “One-Sample T Test”
- Click on “One-Sample T Test”

10

- Variables available for analysis shown at left
- Click on BMI, the on arrow between boxes
- Variable now available for calculations
- Click on “Options”
  - Type-in wanted confidence level (default 95%)
  - Treatment of missing data
  - Click on “Continue”
- Type in “Test Value”
- Click on “OK”

11

• Voila!

**One-Sample Statistics**

	N	Mean	Std. Deviation	Std. Error Mean
BMI	14	30.500	10.6392	2.8434

**One-Sample Test**

Test Value = 35

	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
BMI	-1.583	13	.138	-4.5000	-10.643	1.643

12