NOVA SOUTHEASTERN UNIVERSITY

Abraham S. Fischler School of Education

Module 2: Introduction to SPSS

The Applied Research Center

Module 2 Overview

- Steps for Analyzing Data
- Using SPSS for Windows
  - Entering Data
  - Managing Data

Steps for Analyzing Data

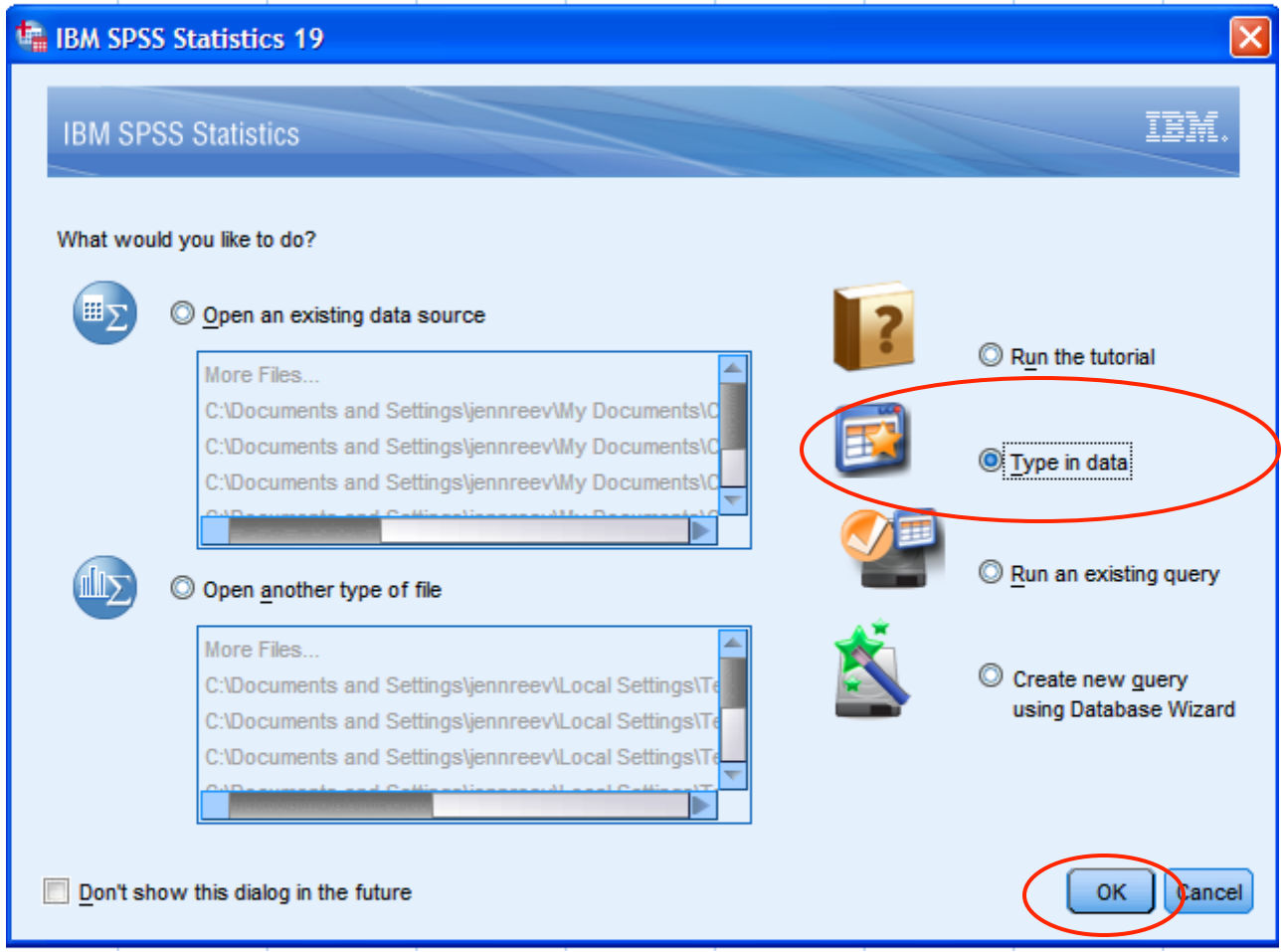
- Enter the data
- Select the procedure and options
- Select the variables
- Run the procedure
- Examine the output

Using SPSS© for Windows - Data Procedures

- Entering Data
  - Ways to Enter Data
  - Entering Data Directly
  - Defining Variable Properties
- Managing Data
  - Viewing Data
  - Computing New Variables
  - Selecting Cases

Ways to Enter the Data

- Create a new data file
- Opening an existing data file
- Import data
  - Database file
  - Spreadsheet file (.xls)
  - ASCII text file



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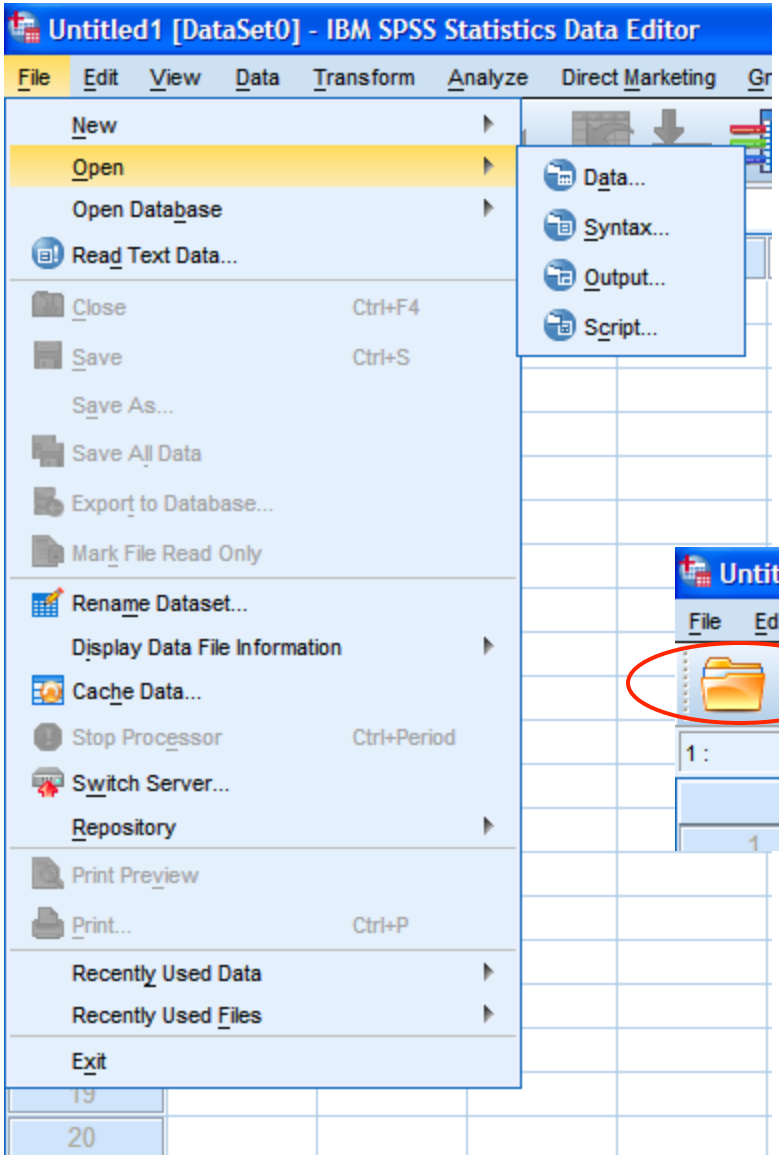
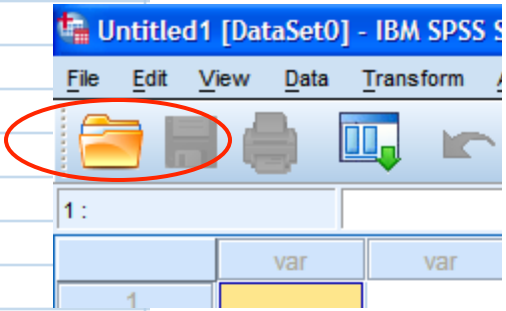


OR



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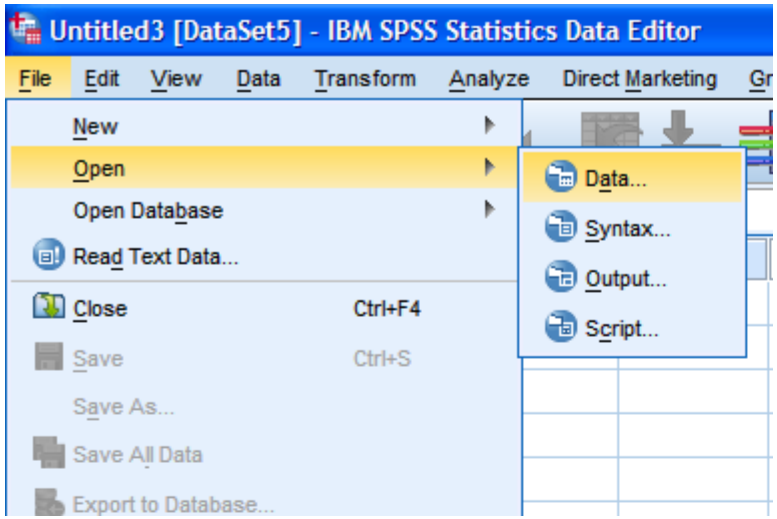
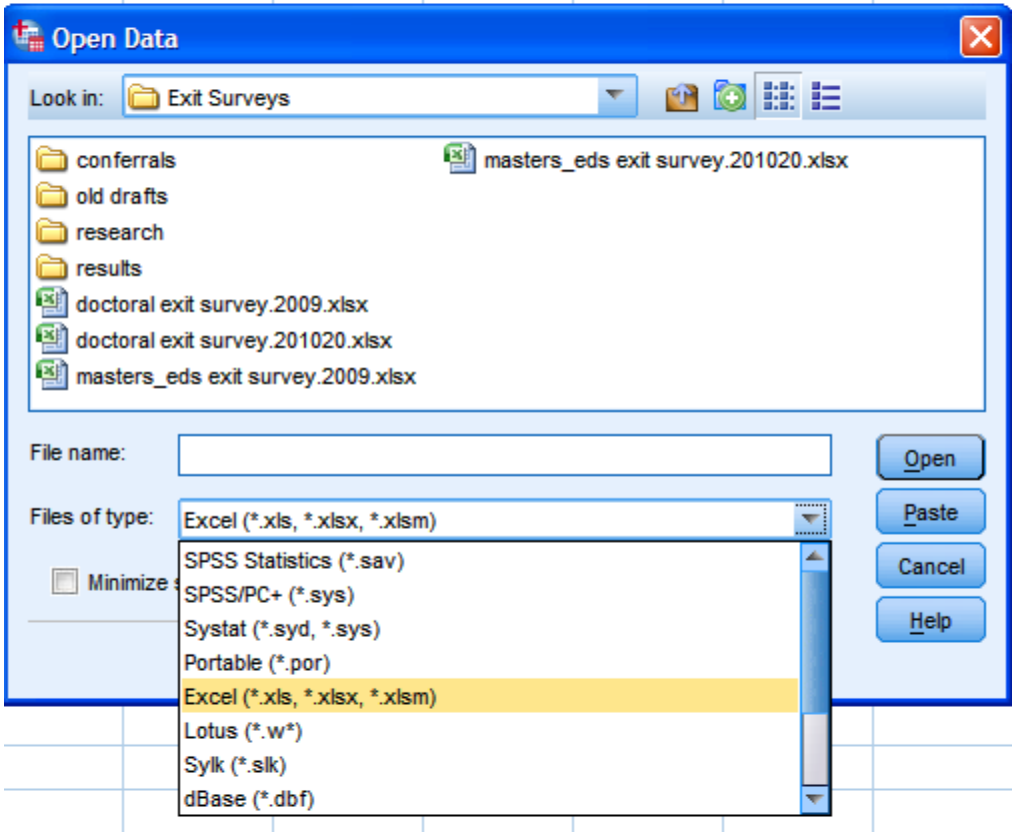
Ways to Enter the Data (cont'd)

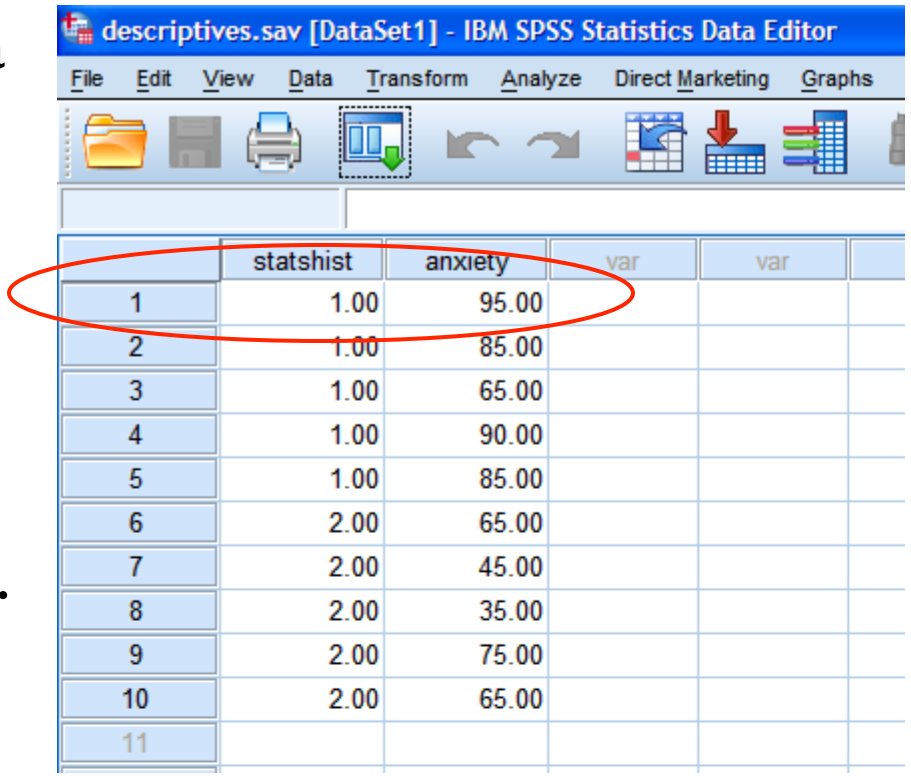
- Import data





Entering Data Directly

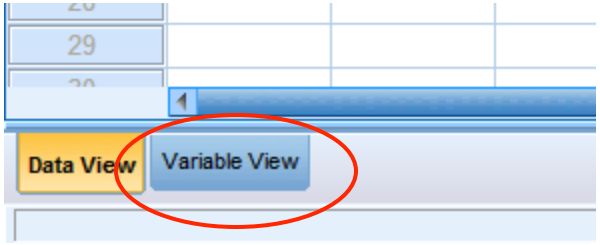
- Each row is a case (e.g., a participant).
- Enter the value for each variable.
- Press <Tab> key or right arrow key to move to next variable.
- Leave blank if no value/ data
- Press Enter key to move to the next case.



	statshist	anxiety	var	var
1	1.00	95.00		
2	1.00	85.00		
3	1.00	65.00		
4	1.00	90.00		
5	1.00	85.00		
6	2.00	65.00		
7	2.00	45.00		
8	2.00	35.00		
9	2.00	75.00		
10	2.00	65.00		
11				

Define the Variable Properties

- Name
- Type
- Label
- Values

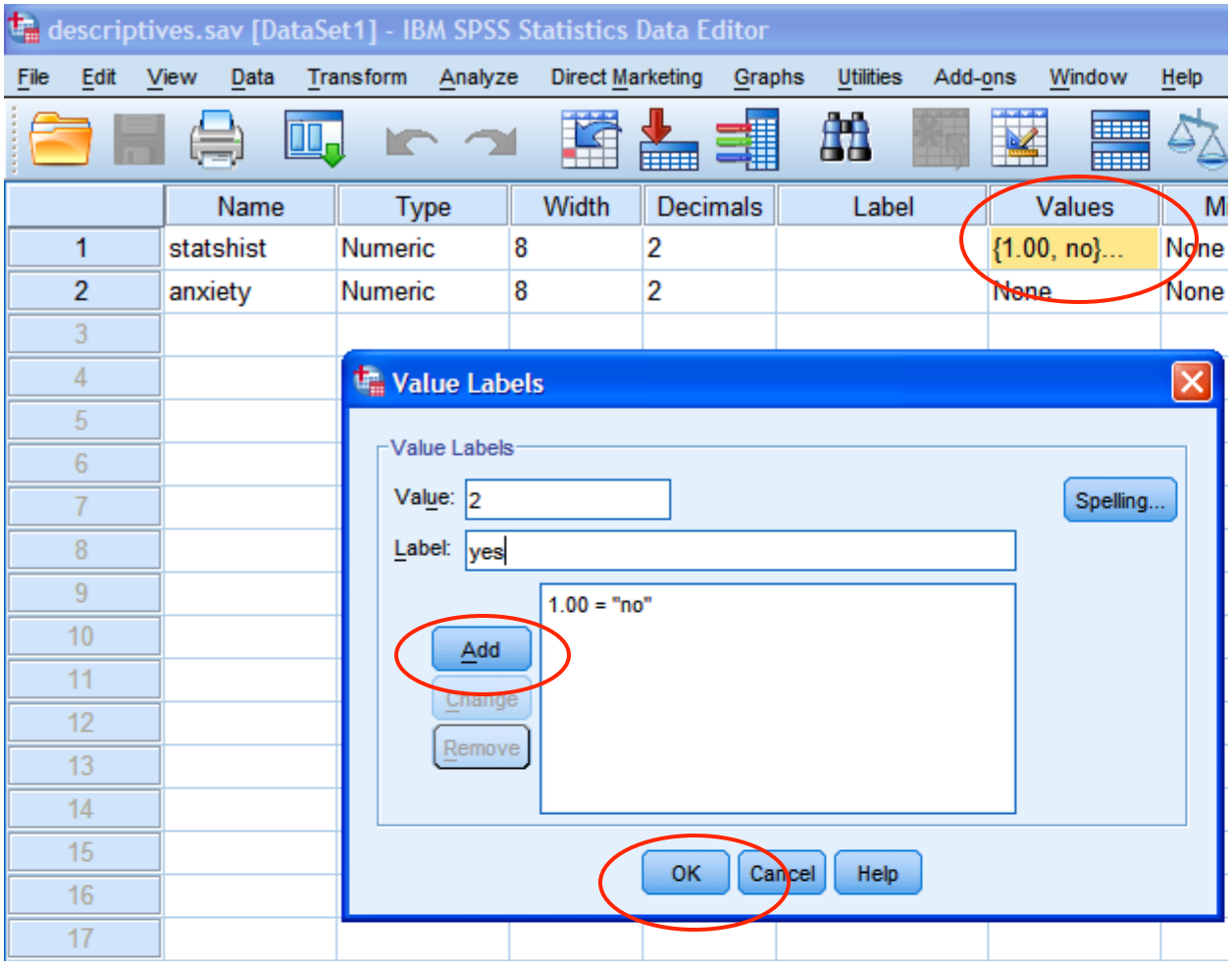


descriptives.sav [DataSet1] - IBM SPSS Statistics Data Editor

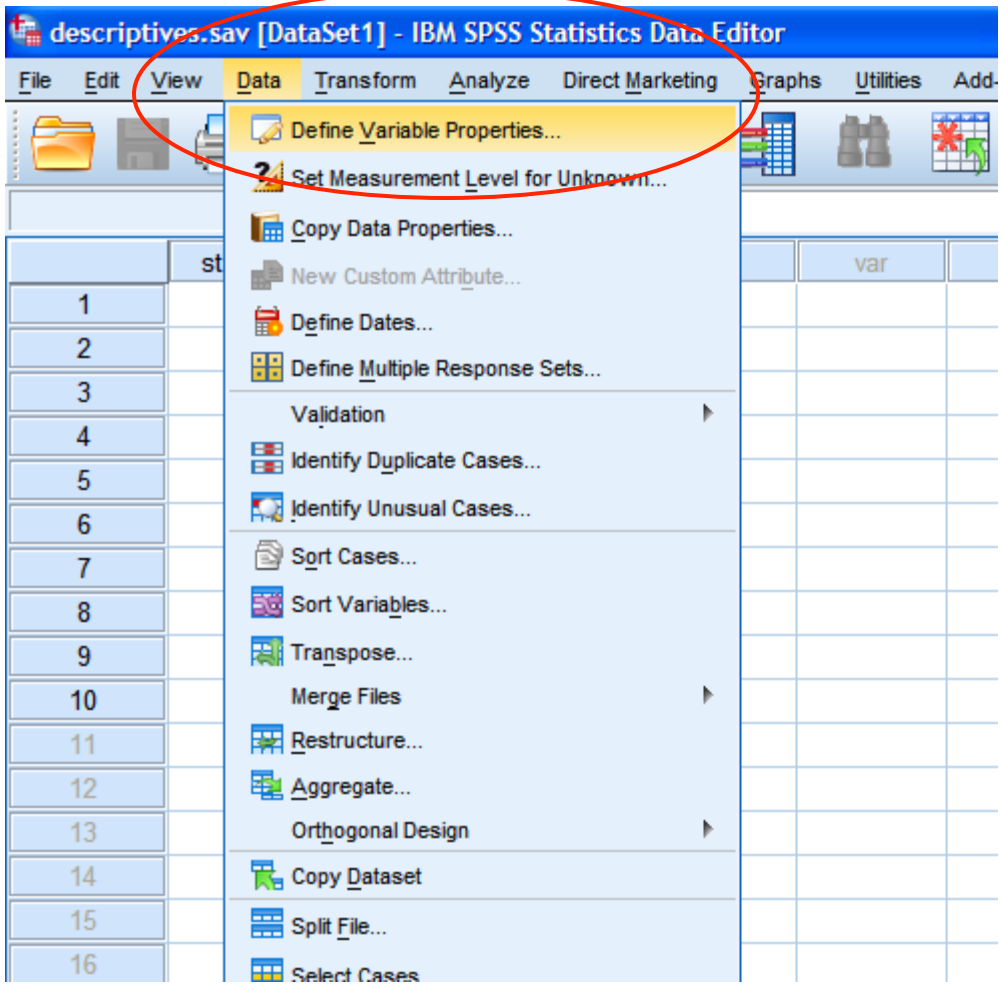
File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
1	statshist	Numeric	8	2		{1.00, no}...	None	8	Right	Scale
2	anxiety	Numeric	8	2		None	None	8	Right	Scale
3										
4										

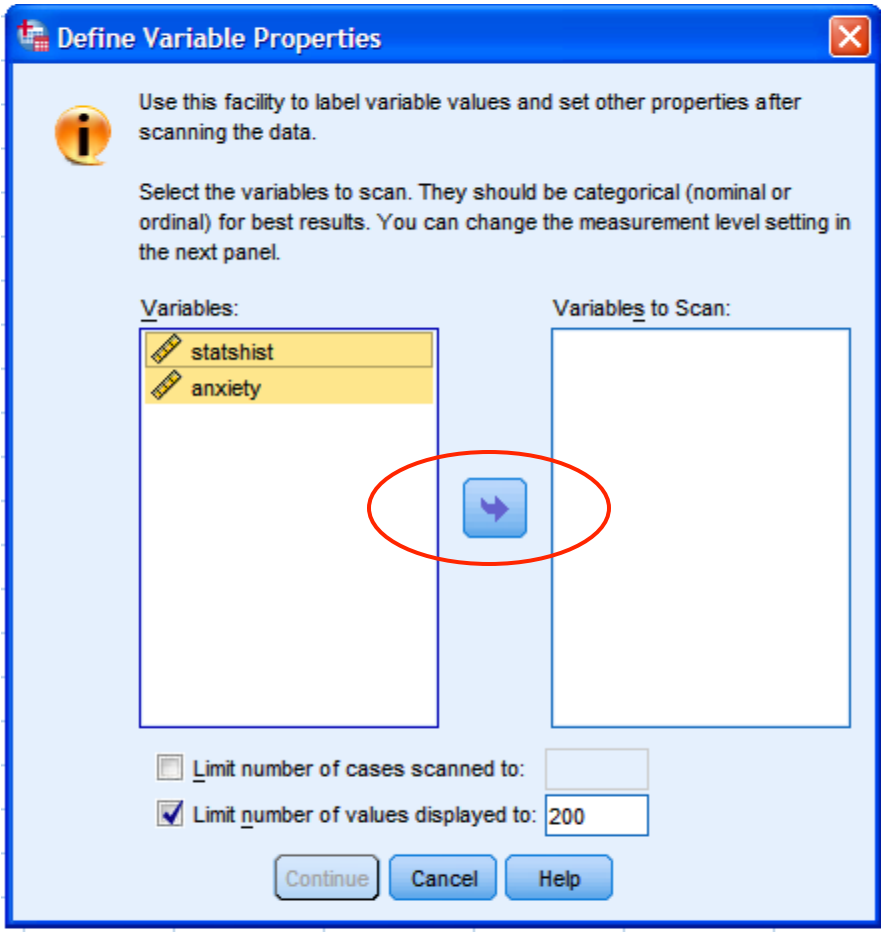
Labeling Variables

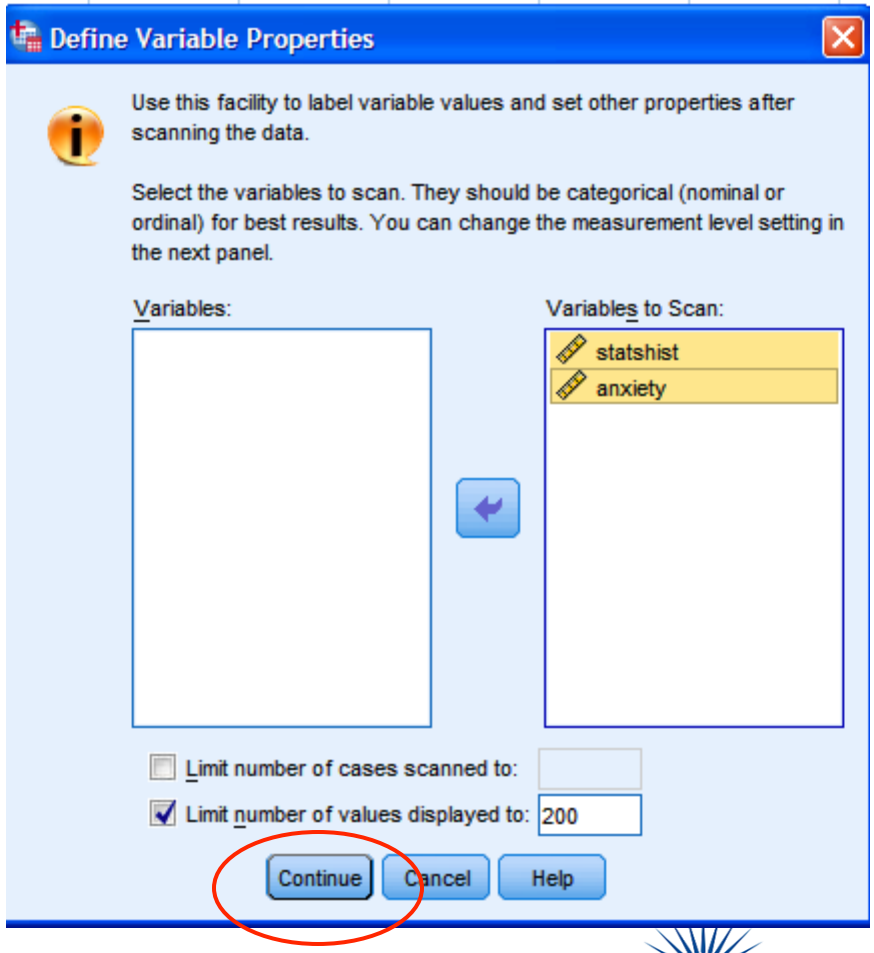


Define Variable Properties Menu



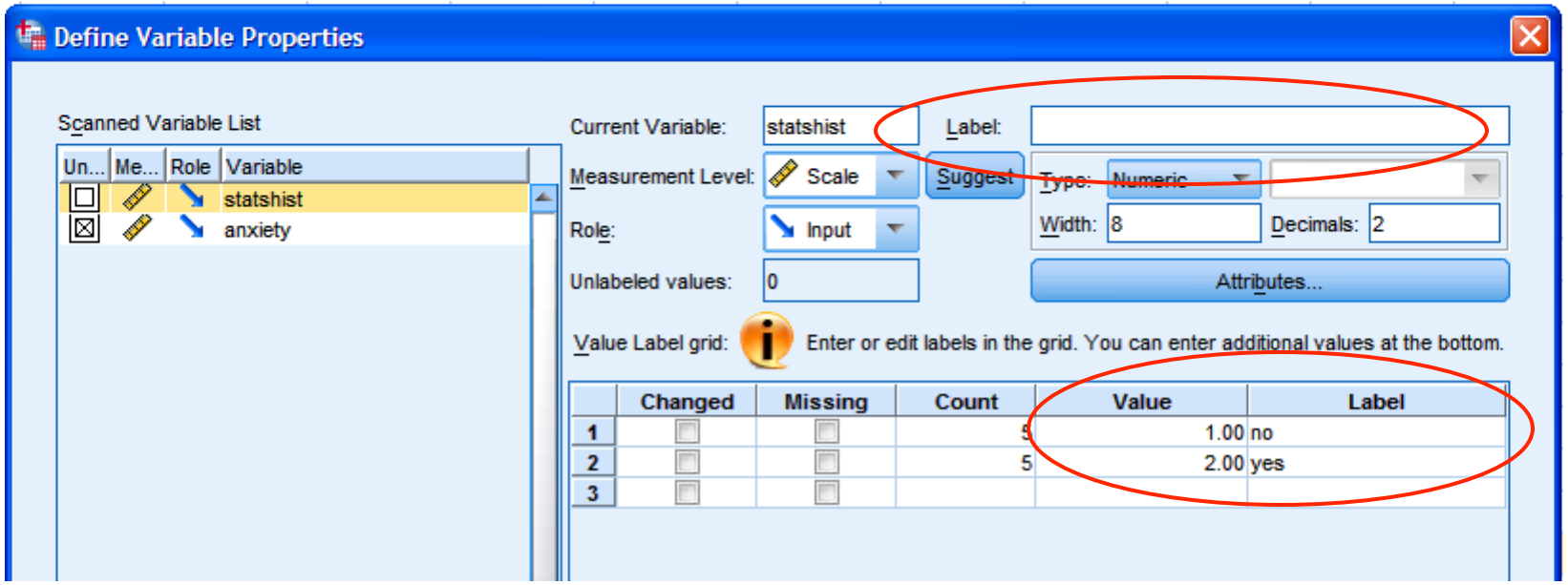
Select Variables to Define





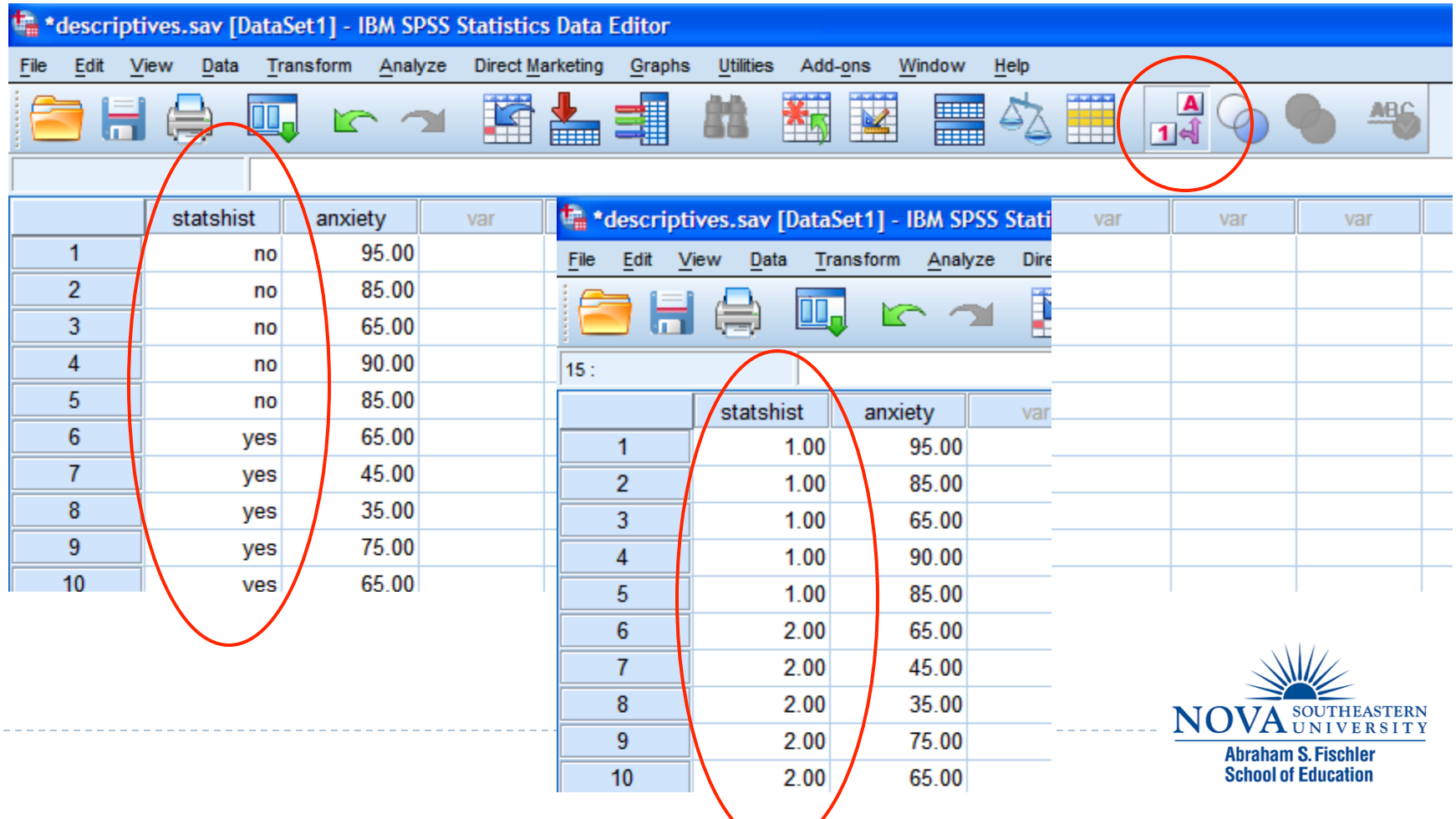
Labeling Variables

- → Type labels in boxes under Label column



Change the View - Value Labels

- Data entered as numeric codes can be displayed as value labels by clicking the "Value Labels" icon.



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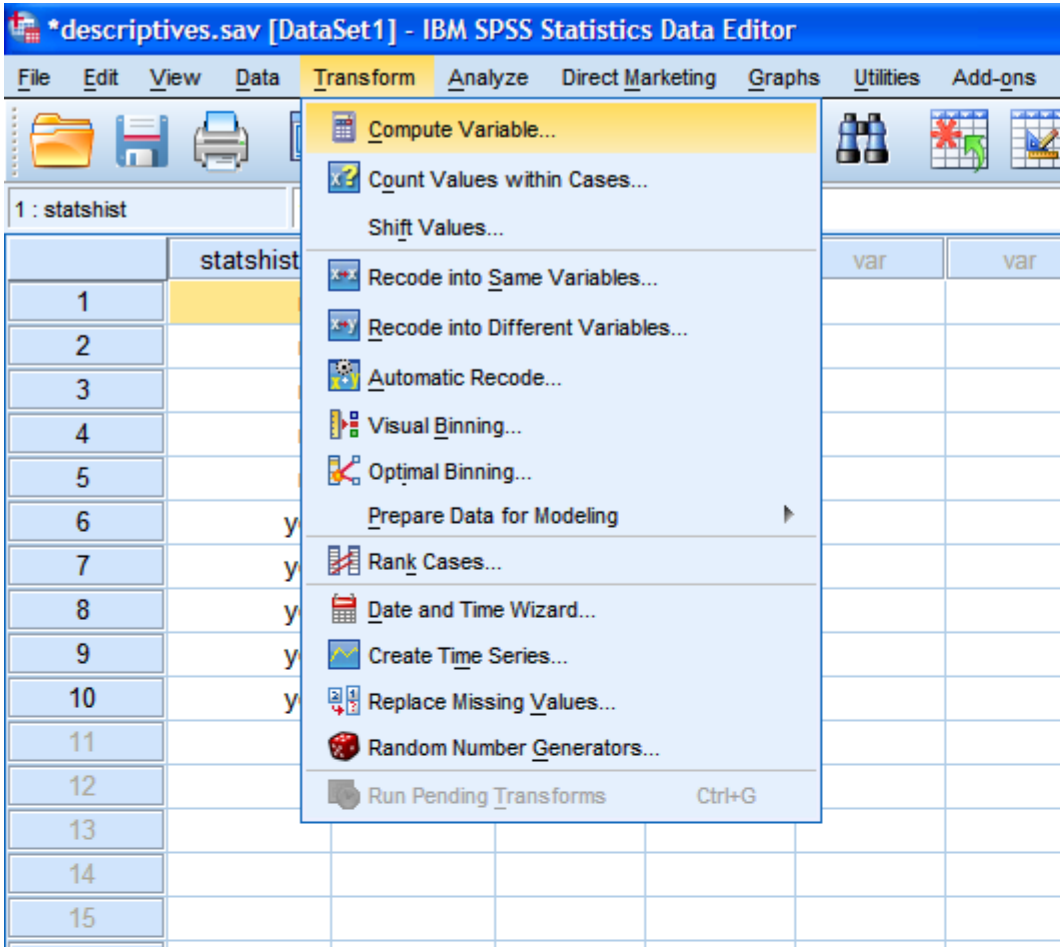
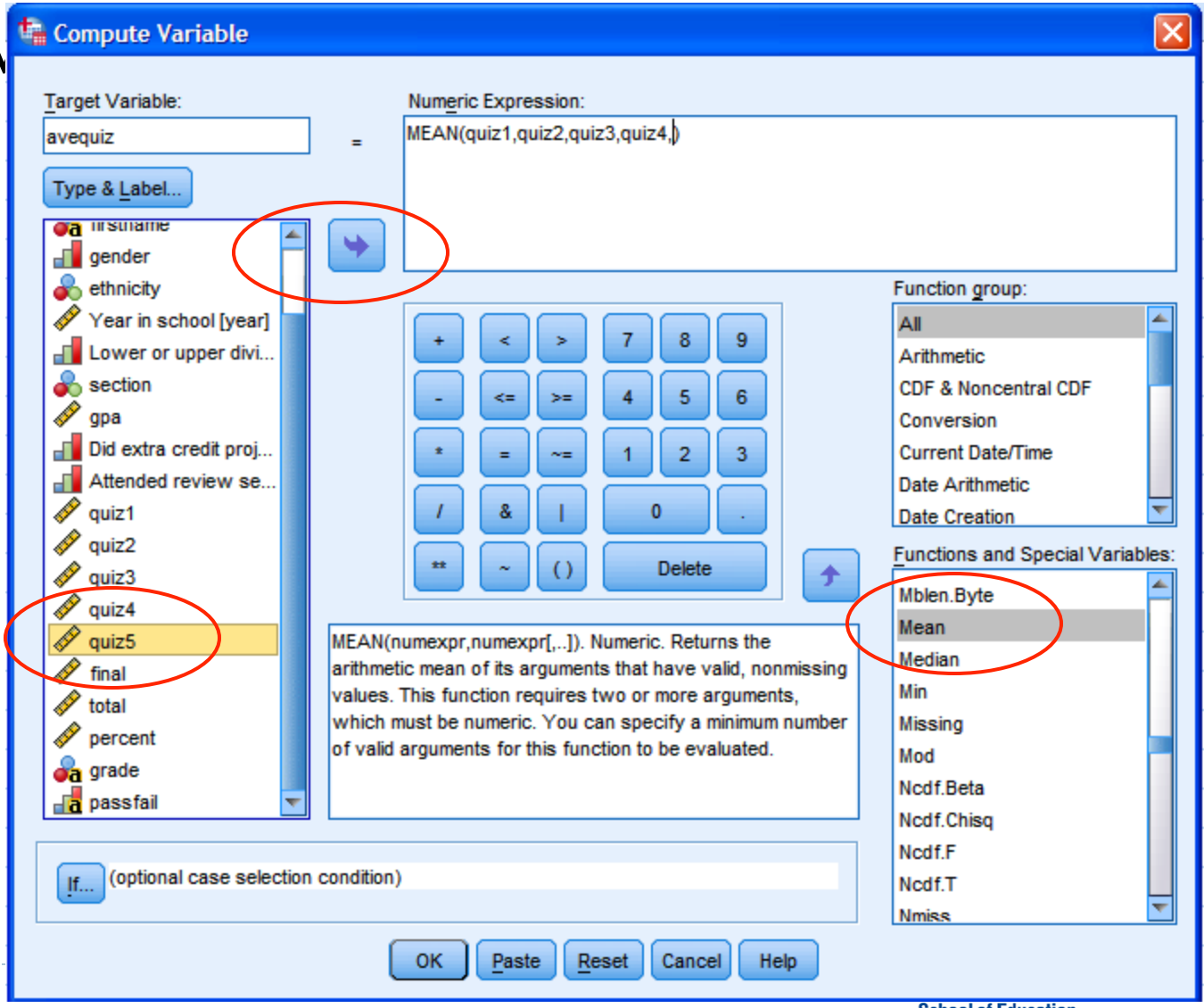
Compute Procedure

- Compute is used to create a new variable.

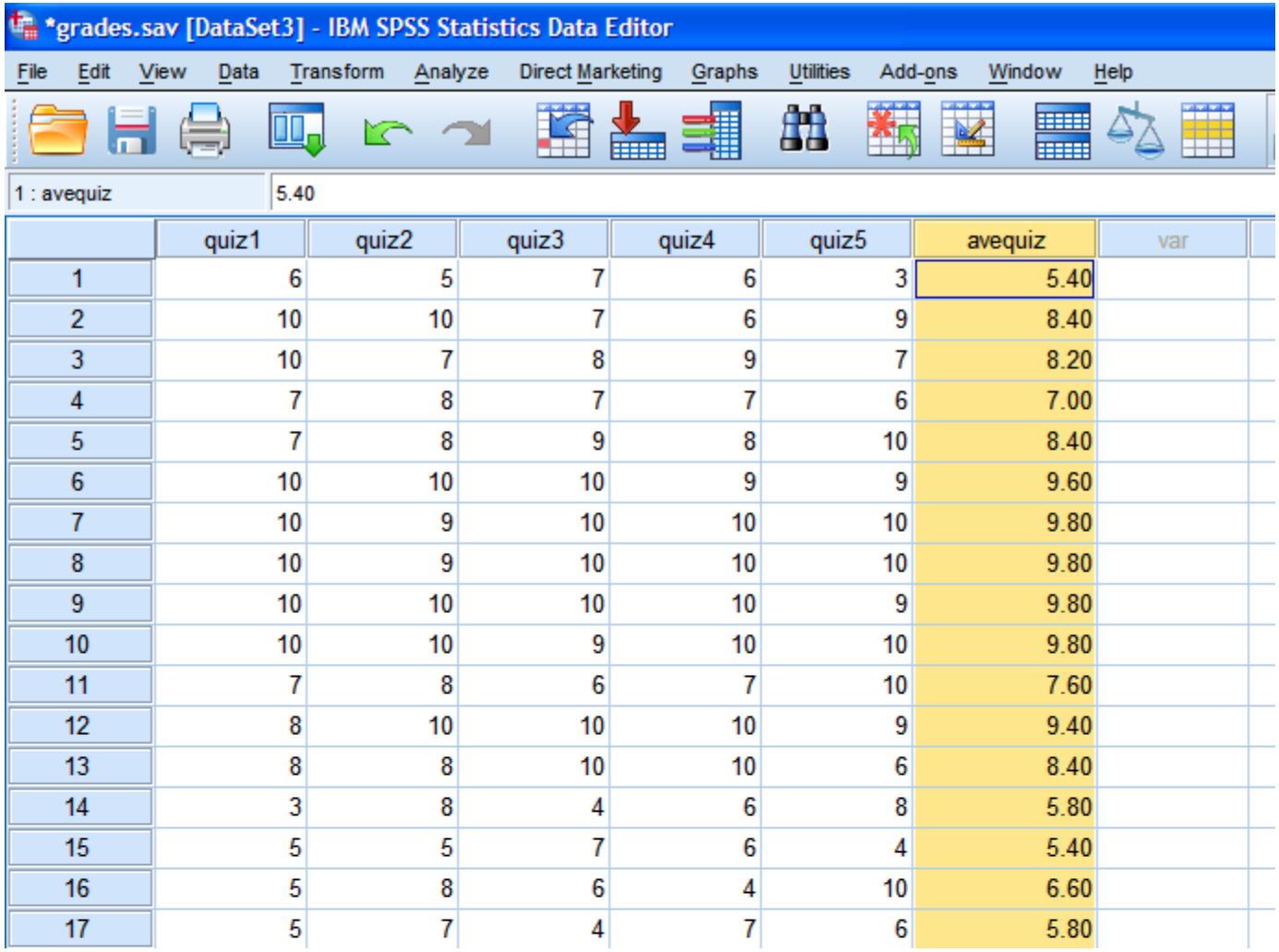


Compute Procedure (cont' d)

- Name the new variable
- Choose the type of computation
- Select the appropriate variables to add to the numeric expression



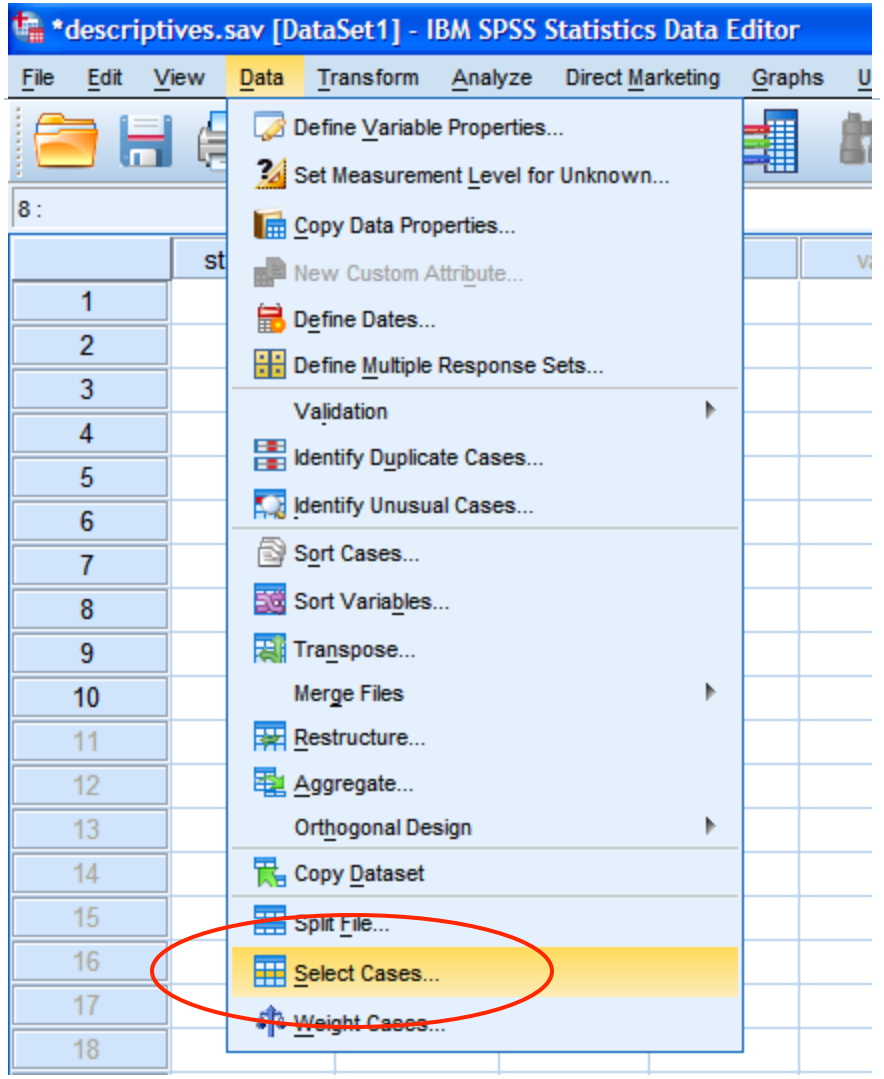
Compute Procedure (cont'd)



	quiz1	quiz2	quiz3	quiz4	quiz5	avequiz	var
1	6	5	7	6	3	5.40	
2	10	10	7	6	9	8.40	
3	10	7	8	9	7	8.20	
4	7	8	7	7	6	7.00	
5	7	8	9	8	10	8.40	
6	10	10	10	9	9	9.60	
7	10	9	10	10	10	9.80	
8	10	9	10	10	10	9.80	
9	10	10	10	10	9	9.80	
10	10	10	9	10	10	9.80	
11	7	8	6	7	10	7.60	
12	8	10	10	10	9	9.40	
13	8	8	10	10	6	8.40	
14	3	8	4	6	8	5.80	
15	5	5	7	6	4	5.40	
16	5	8	6	4	10	6.60	
17	5	7	4	7	6	5.80	

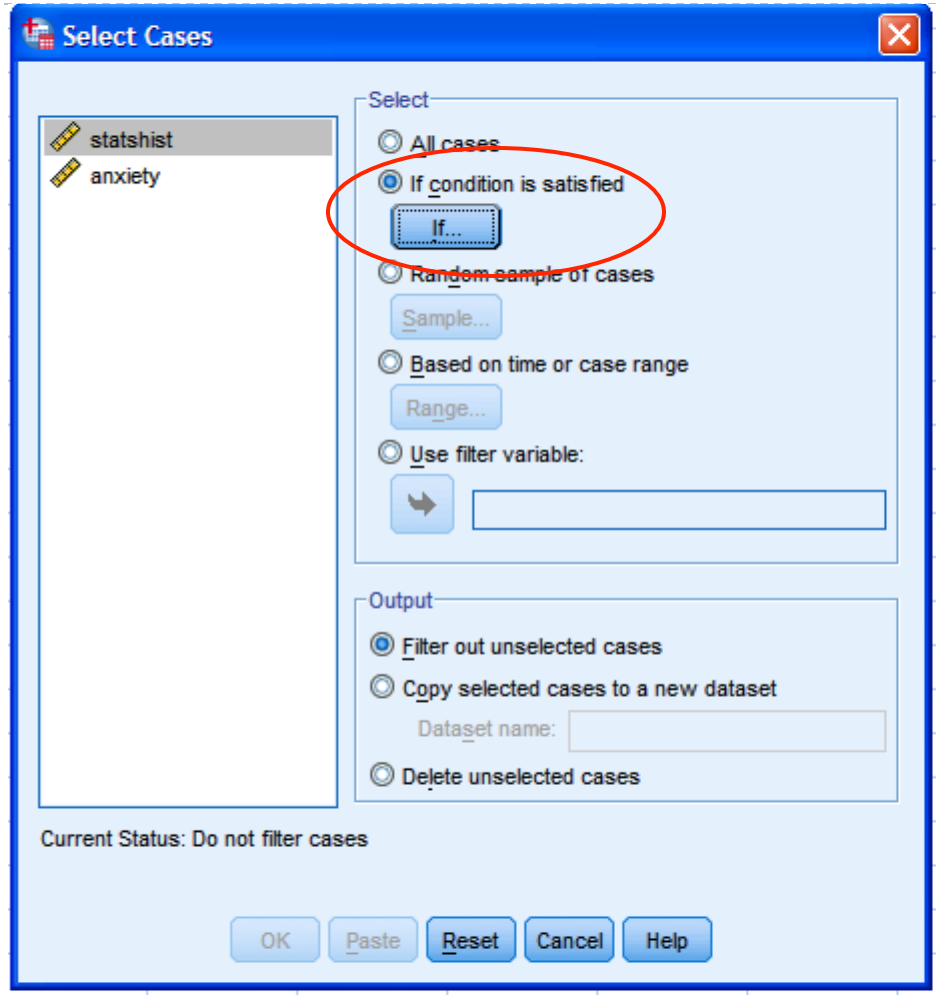
Select Cases

- For a subset of the data file, use Select Cases



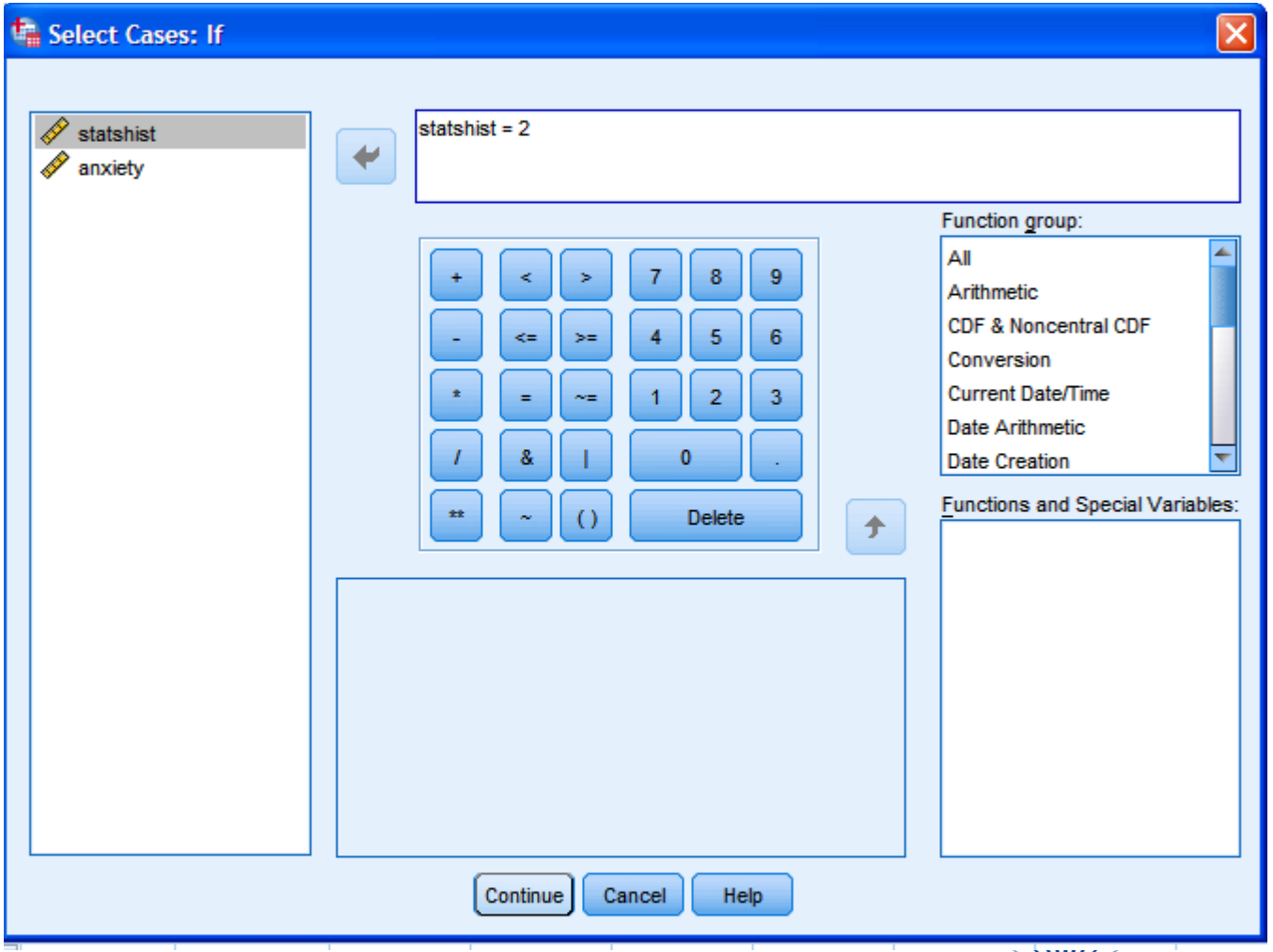
Select Cases

- To select only those cases which meet certain criteria, choose the If option.



Select Cases (cont'd)

- Enter the expression that will determine which cases will be selected



Select Cases (cont'd)

- Only those cases selected will be used in the analysis

*descriptives.sav [DataSet1] - IBM SPSS Statistics Data Editor

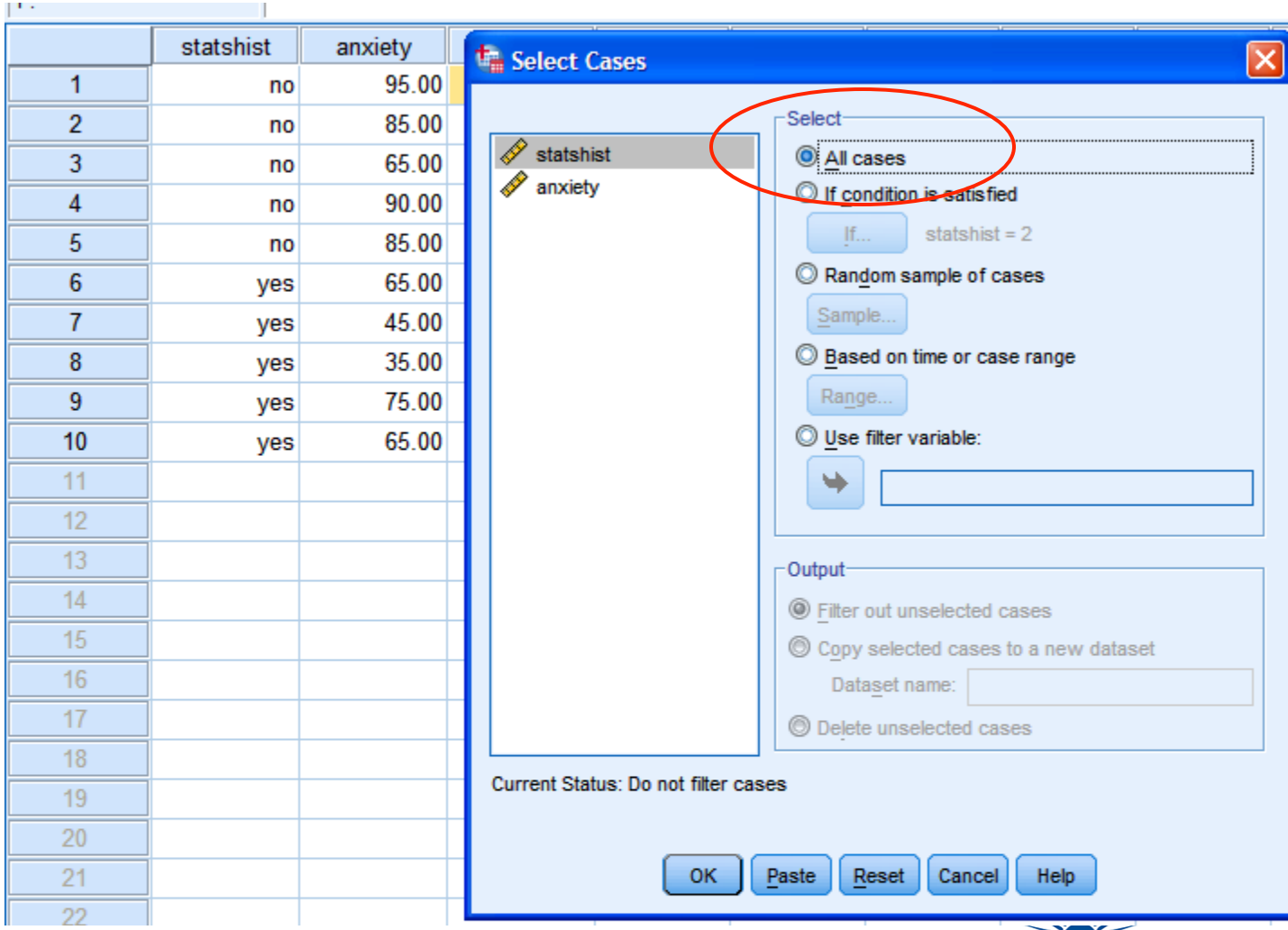
File Edit View Data Transform Analyze Direct Marketing Graphs

8 :

	statshist	anxiety	filter_$	var
1	no	95.00	Not Selected	
2	no	85.00	Not Selected	
3	no	65.00	Not Selected	
4	no	90.00	Not Selected	
5	no	85.00	Not Selected	
6	yes	65.00	Selected	
7	yes	45.00	Selected	
8	yes	35.00	Selected	
9	yes	75.00	Selected	
10	yes	65.00	Selected	
11				
12				
13				

Select Cases (cont'd)

- Select "All cases" to analyze all cases in the data file.



Module 2 Summary

- Steps for Analyzing Data
- Using SPSS for Windows
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  - Managing Data

Review Activity and Quiz

- Please complete the Module 2 Review Activity: 5 Steps for Analyzing Data located in Module 2.
- Upon completion of the Review Activity, please complete the Module 2 Quiz.
- Please note that all modules in this course build on one another; as a result, completion of the Module 2 Review Activity and Module 2 Quiz are required before moving on to Module 3.
- You can complete the review activities and quizzes as many times as you like.

Upcoming Modules

- Module 1: Introduction to Statistics
- Module 2: Introduction to SPSS
- Module 3: Descriptive Statistics
- Module 4: Inferential Statistics
- Module 5: Correlation
- Module 6: *t*-Tests
- Module 7: ANOVAs
- Module 8: Linear Regression
- Module 9: Nonparametric Procedures