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Modules 1-2: Exploratory Data Analysis & Identifying the appropriate test

The simplest way to get a quick and thorough exploration of the data is to choose **Analyze** > **Descriptive Statistics** > **Explore** and complete the *Explore* dialog box by selecting usage to be in the **Dependent List** window as shown below.

ta 🛛	Explore	×
Display @ Both O Statistics O OK	Dependent List:	Statistics Plo <u>t</u> s Options Bootstrap

Select **Statistics** to get the *Explore: Statistics* dialog box up. The default options of **Descriptives** and **95%** for the **Confidence Interval for Mean** should already be selected. Note this is where you could change the % level of the confidence interval for the mean.

Click **Outliers** and **Percentiles**.

t)	Explore: Statistics ×		
<mark>.</mark> √ <u>D</u> es	criptives		
<u>C</u> onfidence Interval for Mean: 95 %			
M-estimators			
✓ Outliers			
V Perc	entiles		
6	Cancel Help		

Click **Continue** to return to the main dialog box.

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Select **Plots** to get the *Explore: Plots* dialog box up. The default options of **Boxplots Factor levels together** and **Descriptive Stem-and-leaf** should already be selected, deselect the later. Click **Histogram** and **Normality plots with tests**.

ta	Explore: Plots ×			
BC © ©	oxplots) <u>F</u> actor levels together) <u>D</u> ependents together) <u>N</u> one	Descriptive <u>S</u> tem-and-leaf <u>H</u> istogram		
 ✓ Normality plots with tests Spread vs Level with Levene Test ● None ● Power estimation ● Transformed Power: Natural log ✓ Untransformed 				
Continue Cancel Help				

Click **Continue** to return to the main dialog box. Click **OK** to perform the exploratory analysis.