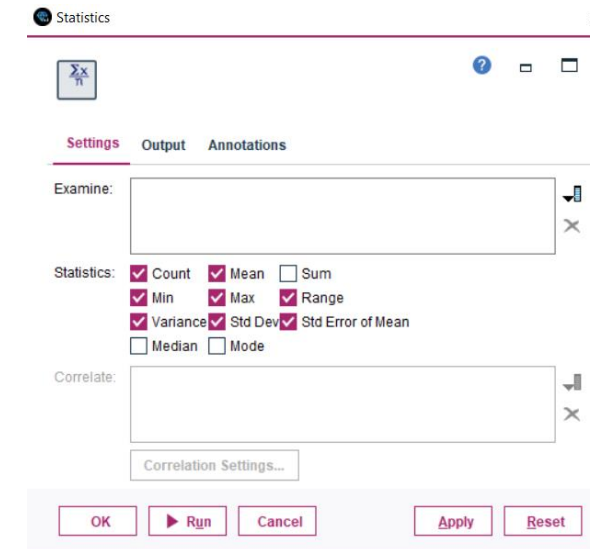
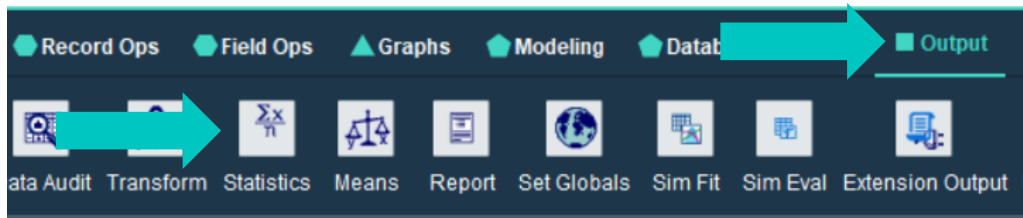


# Examine Statistics

Tech Tips - IBM SPSS Modeler

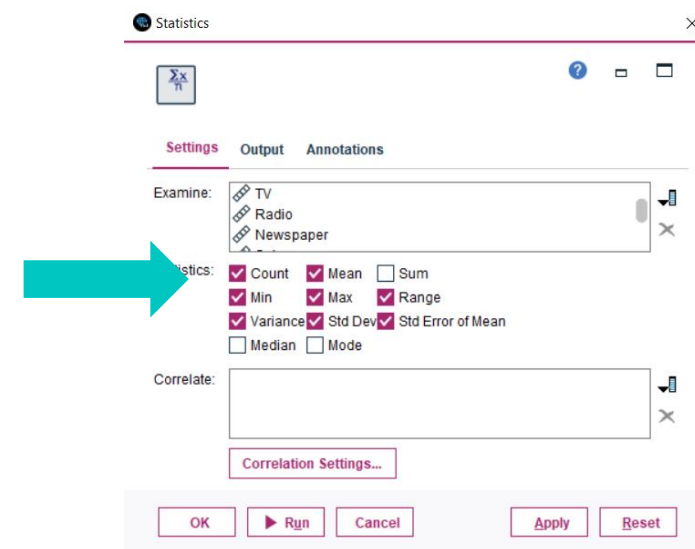
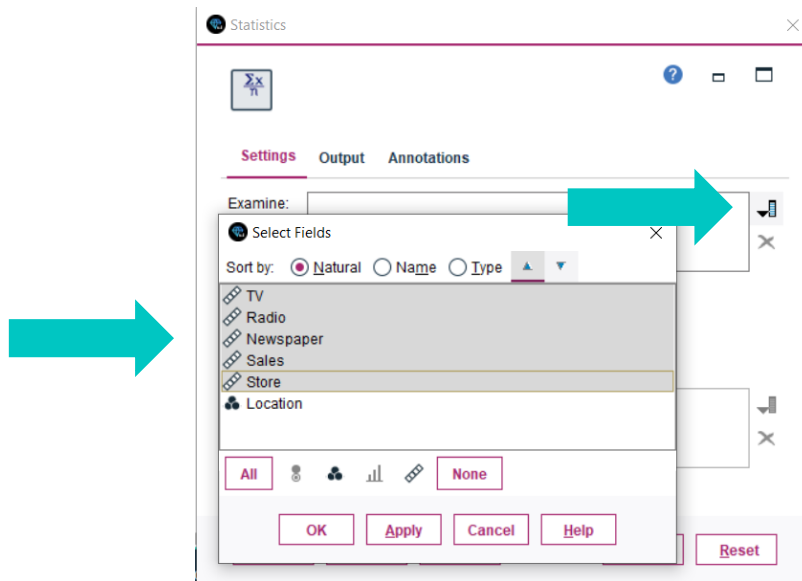
# Tech Tips – Examine Statistics

- Here’s a quick tip to examine statistics in IBM SPSS Modeler.
- Sometimes you want to examine variable relationships between a few variables. For example, you want to run multiple regression, but you want to examine the correlations between variables. The **Statistics** node makes this quick and easy. The **Statistics** node is located on the **Output** palette.



# Tech Tips – Examine Statistics

- To obtain Statistics go to the **Output** palette. Select the **Statistics** node and drag it onto the stream canvas. You can also double click the node to drop it onto the stream canvas. Once it is on the canvas you can connect it to your stream.
- Double click to open the node. Use the field chooser button to select the fields that you want to **Examine**. Tick the desired statistics.



# Tech Tips – Examine Statistics

- To examine correlations, move the variables to the **Correlate** box. Click **Run**. Now you can examine statistics and correlations.

The first screenshot shows the 'Statistics' dialog box. The 'Examine' box contains 'TV', 'Radio', and 'Newspaper'. The 'Correlate' box also contains 'TV', 'Radio', and 'Newspaper'. The 'Run' button is highlighted with a red arrow.

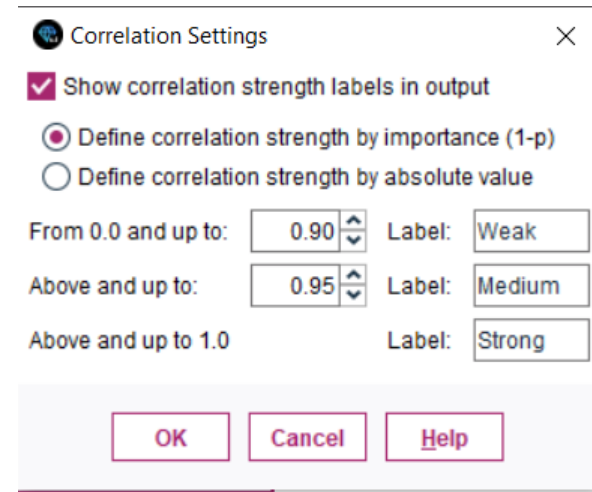
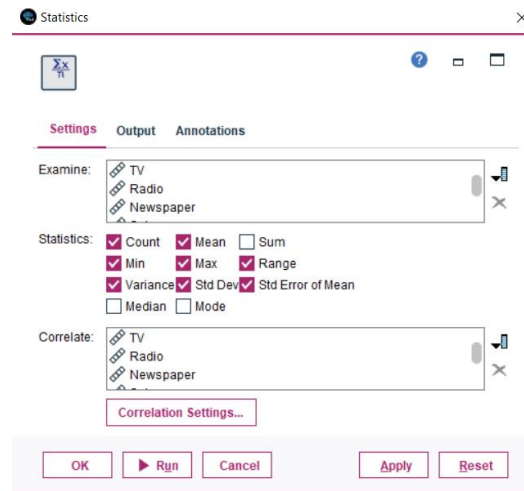
The second screenshot shows the 'Statistics of [TV Radio Newspaper Sales Store]' window. It displays summary statistics for TV, Radio, and Newspaper. The 'TV' statistics are: Count: 200, Mean: 147.042, Min: 0.790, Max: 296.400, Range: 295.700, Variance: 7370.950, Standard Deviation: 85.854, Standard Error of Mean: 6.671. The 'Radio' statistics are: Count: 200, Mean: 0.000, Max: 49.600, Range: 49.600, Variance: 220.428, Standard Deviation: 14.847, Standard Error of Mean: 1.050.

The third screenshot shows the 'Pearson Correlations' table:

	TV	Radio	Newspaper	Sales	Store
TV	1.000/Perfect	0.055/Weak	0.057/Weak	0.901/Strong	0.018/Weak
Radio	0.055/Weak	1.000/Perfect	0.354/Strong	0.350/Strong	-0.111/Weak
Newspaper	0.057/Weak	0.354/Strong	1.000/Perfect	0.158/Strong	-0.155/Strong
Sales	0.901/Strong	0.350/Strong	0.158/Strong	1.000/Perfect	-0.021/Weak
Store	0.018/Weak	-0.111/Weak	-0.155/Strong	-0.021/Weak	1.000/Perfect

# Tech Tips – Examine Statistics

- The Statistics nodes offers two settings for correlations. When selecting variables to correlate, users can click on the **Correlation Settings** button. This provides options to **Define correlation strength by importance (1-p)** or **Define correlation strength by absolute value**.





# Thank You

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