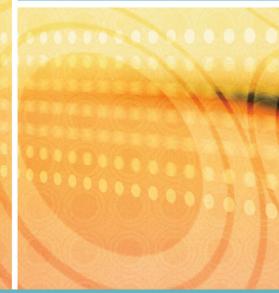
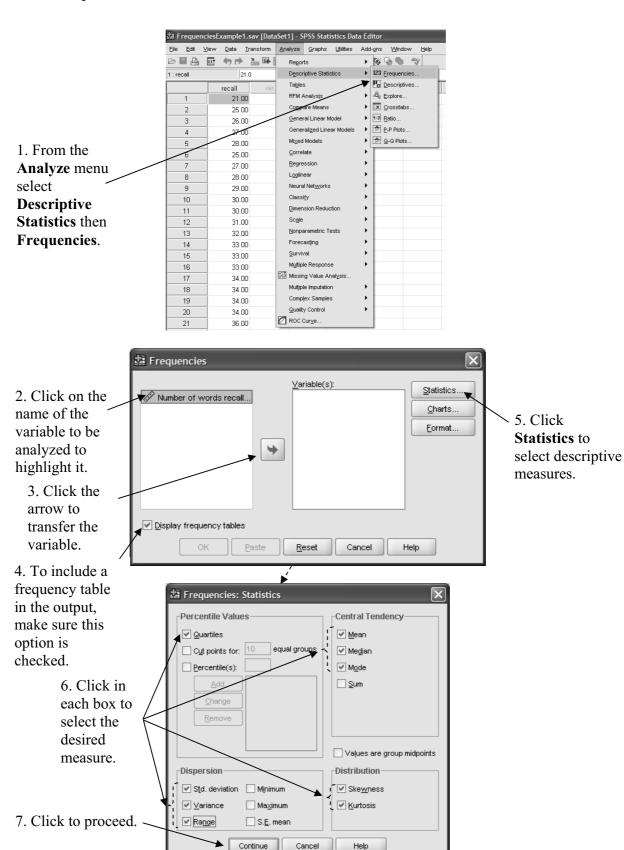
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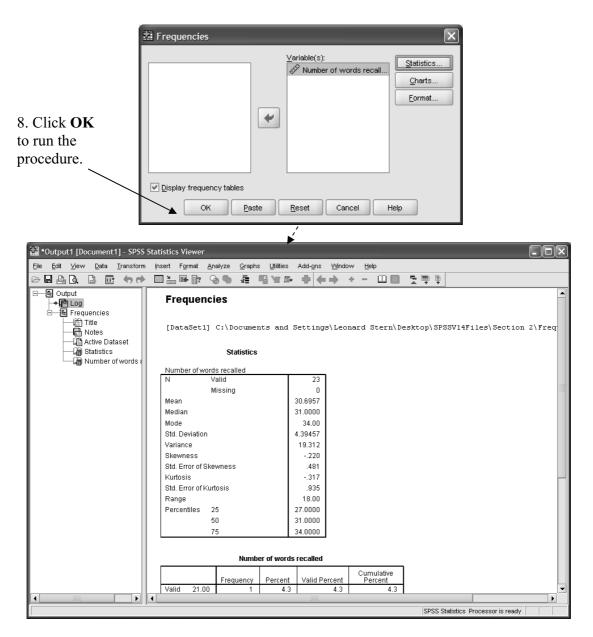


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The Frequencies Procedure



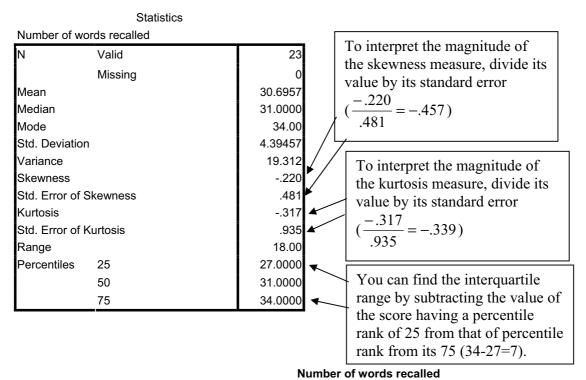


Interpreting the Output

The table of summary statistics and the frequency distribution output by the **Frequencies** procedure are shown below. The table of summary statistics includes information about the number of scores in the distribution and the number of missing values followed by values of requested measures of the distribution's central tendency, variability, and shape. Note that the **Frequencies** procedure does not directly provide a value of the distribution's interquartile range. However, the interquartile range may be calculated from the values of the distributions 25th and 75th percentiles. That is, by subtracting the value of the score that has a percentile rank of 25 from that having a percentile rank of 75, one obtains the range covered by the middle 50% of the scores in the distribution.

The Frequencies Procedure

The negative value of the index of skewness indicates the distribution is negatively skewed. To interpret its magnitude, divide the value of the index of skewness by its standard error. A similar process can be applied to the kurtosis statistic. In both cases, the resulting value for our example is less than 1, indicating that the distribution does not differ substantially from *normal* in either skewness or kurtosis.

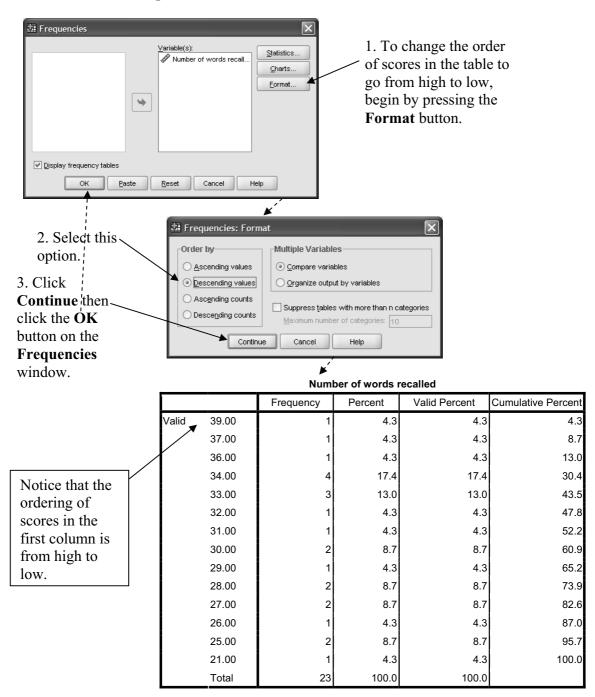


			Frequency	Percent	Valid Percent	Cumulative Percent	
	Valid	, 21.00	1	4.3	4.3	4.3	
		25.00	2	8.7	8.7	13.0	
Notice that the value of each score having a different value in the data set is listed in this table. If the data set contains many different scores, the table can be long.		26.00	1	4.3	4.3	17.4	
		27.00	2	8.7	8.7	26.1	
		28.00	2	8.7	8.7	34.8	
		29.00	1	4.3	4.3	39.1	
		30.00	2	8.7	8.7	47.8	
		31.00	1	4.3	4.3	52.2	
		32.00	1	4.3	4.3	56.5	
		33.00	3	13.0	13.0	69.6	
		34.00	4	17.4	17.4	87.0	
		36.00	1	4.3	4.3	91.3	
		37.00	1	4.3	4.3	95.7	
		39.00	1	4.3	4.3	100.0	
		Total	23	100.0	100.0		

Options for the Frequencies Procedure

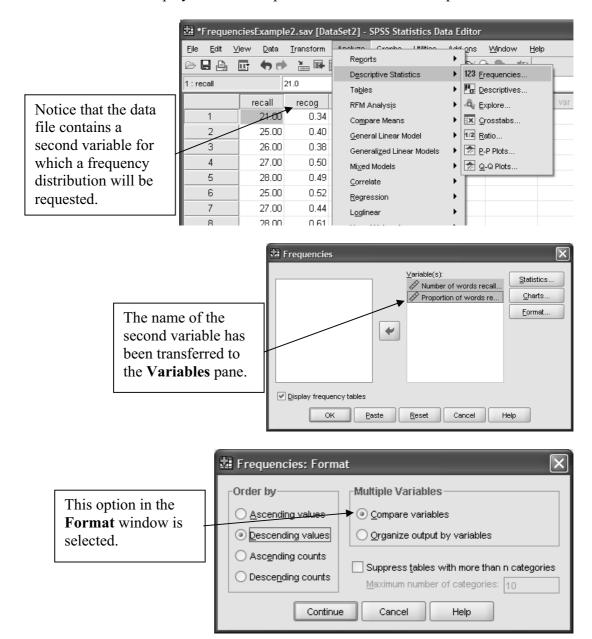
Ascending vs. Descending Order of Scores.

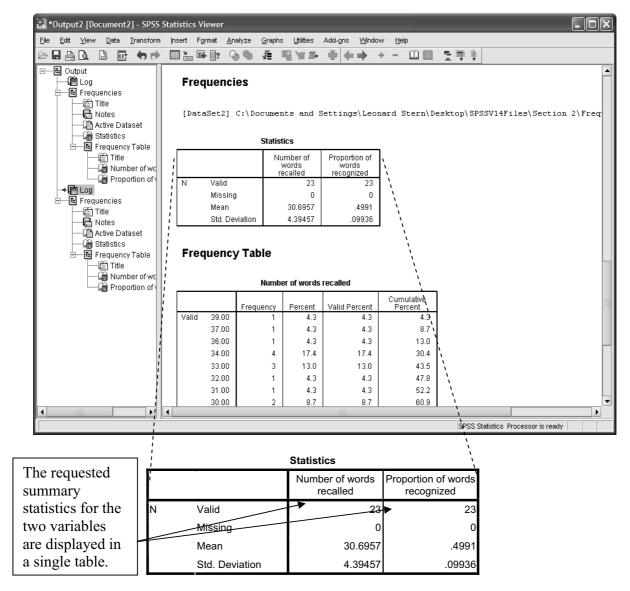
One option that can be applied to a frequency distribution affects the order in which scores in the first column of the table are arranged. To change from the default ordering of scores from lowest to highest (in relation to the top of the column), select the appropriate option presented in the **Format** window that opens when the **Format** button is clicked on the **Frequencies** window:



Multiple vs. Single Tables of Summary Statistics for Multiple Variables.

It is possible to apply the **Frequencies** procedure to more than a single variable. When applied to multiple variables, the summary statistics for all variables will by default be displayed in a single table; alternatively, if requested, a separate table of statistics for each variable can be displayed. The examples below illustrate these options.





If **Organize output by variables** is selected in the **Format** window, then a separate summary table of requested statistics followed by a frequency distribution is displayed for each variable.

