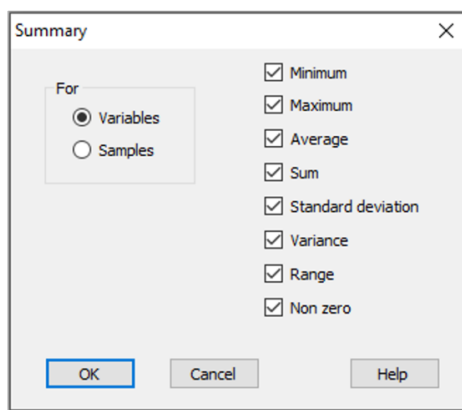


1.1 Expansion from P7 to P8

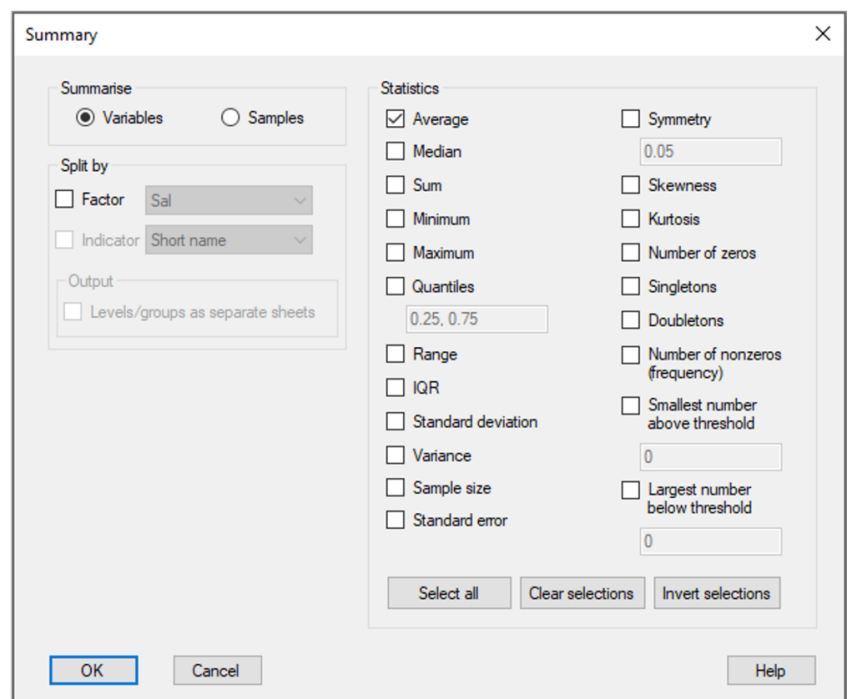
Summary statistics provide essential information to help you get to know your variables, their fundamental statistical properties and numerical characteristics. In P8, if you click on **Tools > Summary Stats...** you will see (Fig. 1.1) that we have greatly expanded the list of options on offer, compared to those available in P7 (where it used to be accessed under **Analyse > Summary Stats...**). In some cases, you may wish to calculate summary statistics across the values you are getting across a sample, so this is catered to as well (just as in P7). We have also added the possibility to output summary statistics separately for different levels of a *factor* (or different groups of an *indicator*, in the event that you are summarising samples instead of variables).

PRIMER 7



The PRIMER 7 'Summary' dialog box is a simple window with a title bar and a close button. It contains a 'For' section with two radio buttons: 'Variables' (selected) and 'Samples'. To the right is a list of statistics with checkboxes: Minimum, Maximum, Average, Sum, Standard deviation, Variance, Range, and Non zero. At the bottom are 'OK', 'Cancel', and 'Help' buttons.

PRIMER 8



The PRIMER 8 'Summary' dialog box is more complex. It has a title bar and a close button. The 'Summarise' section has two radio buttons: 'Variables' (selected) and 'Samples'. Below this is a 'Split by' section with two checkboxes: 'Factor' (unchecked) and 'Indicator' (unchecked). If 'Factor' is checked, there is a dropdown menu showing 'Sal'. If 'Indicator' is checked, there is a dropdown menu showing 'Short name'. Below this is an 'Output' section with a checkbox 'Levels/groups as separate sheets' (unchecked). To the right is a large 'Statistics' section with a list of statistics and checkboxes: Average (checked), Median, Sum, Minimum, Maximum, Quantiles (with a text input '0.25, 0.75'), Range, IQR, Standard deviation, Variance, Sample size, Standard error, Symmetry (with a text input '0.05'), Skewness, Kurtosis, Number of zeros, Singletons, Doubletons, Number of nonzeros (frequency), Smallest number above threshold (with a text input '0'), and Largest number below threshold (with a text input '0'). At the bottom of the 'Statistics' section are three buttons: 'Select all', 'Clear selections', and 'Invert selections'. At the bottom of the dialog box are 'OK', 'Cancel', and 'Help' buttons.

Fig. 1.1. Comparison of the 'Summary Stats...' dialog options in PRIMER 7 vs PRIMER 8.

In what follows, we shall begin by providing a brief description of each of the summary statistics, then demonstrate the use of this new tool by implementing it to summarise information about *variables* (i.e., across samples). Note that you can also use this tool to summarise information about *samples* (i.e., across variables).

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