

## SAS Procedures

(Numbers in parentheses tell which sections of the Little SAS Book discuss each topic)

Task	Proc	Comments	Stata equivalent
<b>print records from the data set.</b> This lets you look at data to make sure that it is reasonable; view mysterious entries	Print (4.4)	This can create huge amounts of output, so often it is useful to use the data set options ( $obs = X$ ) to print only the first $X$ records or (where $= (variable = value)$ ) to print only interesting records. Unfortunately, you cannot use both of these options at once. You can specify which variables to print with the var statement.	List
<b>Analyze frequencies and distributions</b> of any variable. Count the number of occurrences of values or ranges. <b>Run cross tabs</b> <b>Spot outliers or bad data</b>	Freq (4.11) Tabulate (4.12)	Proc freq is a quick and simple way to create simple frequencies, counts, and cross tabs. Proc Tabulate has a slightly difficult syntax, but offers powerful tools to categorize data, perform descriptive analysis on the values in each category, and display the results. You can shorten the results and make them more meaningful by formatting variables.	Tabulate
<b>Describe numerical variables.</b>	Means (4.9) Univariate (7.1) (also Freq Tabulate)	In recent versions of SAS, Proc means can now do roughly the same things as proc univariate. Proc univariate	Codebook, Summarize
<b>Sort data</b> so that you can merge it with another data set or use procedures like means or univariate to perform analysis on subsets of the data.	Sort (4.3)	You need to sort your data before you can merge it or use procedures like means or univariate on subcategories of the data. The complement to sort is the BY statement.	
<b>Define categories</b> and label them	Format (4.7)		Format
<b>Perform Statistical Analysis</b> like correlations, regressions, logistic regressions.	For example: corr, t-test, reg (7.5-7.6), logistic,	Search SAS help ( <a href="http://v9doc.sas.com">http://v9doc.sas.com</a> ) for the statistical test you want to run. SAS has a huge number of built in statistical tests and regressions.	
List the variables in a data set.	Contents (2.8)		Describe