

STAT 480, Homework 3, Spring 2003

In this assignment you will continue to work with the survey introduced in homework 1 and entered for homework 2. You are to work on this assignment individually. Use the copy of Dr. Bob's data entry of the 120 Stat 101 surveys that is in the class directory with the file name

DrBob.dat

Do **not** make any changes to this data set even if you see obvious errors.

1. Use PROC UNIVARIATE and PROC PLOT to scan for unusual values in the variables MILES, CREDITS, AGE and HEIGHT. An unusual value could be an unintelligible value (9999) or one that is clearly out of the normal range of expected values (a height of 300 cm). Identify any unusual values by their ID number.
2. You may not be able to identify all the unusual values using PROC UNIVARIATE or PROC PLOT. Use IF ... THEN statements in the DATA STEP to obtain lists of all unusual values in the variables MILES, CREDITS, AGE and HEIGHT. Unusual values would include
 - MILES > 4000
 - CREDITS < 6 or CREDITS > 18
 - AGE ≤ 16 or AGE ≥ 40
 - HEIGHT ≤ 135 cm or HEIGHT ≥ 205 cm