Lecture 02 Assignment

1. Write a program to read SASHELP.CARS data set. Produce only mean and standard deviation MSRP for each type of car. Set decimal places to zero.

/\* problem 1 \*/

proc means data=sashelp.cars mean std maxdec=0;

var msrp;

class type;

run;

1. Write a program to read SASHELP.HEART data set. Produce mean of cholesterol for each sex. Set decimal places to zero. Display number of non-missing cholesterol values and missing cholesterol values.

/\* problem 2 \*/

proc means data=sashelp.cars mean std maxdec=0;

var msrp;

class type;

run;

1. Write a program to read SASHELP.HEART data set. Use WHERE clause to only analyze observations with chol\_status ‘Borderline’ or ‘High’. Produce mean, min, and max of cholesterol for each ‘status’. Set decimal places to zero and suppress ‘N Obs’ column from output window.

/\* problem 3 \*/

proc means data=sashelp.heart mean min max maxdec=0 nonobs;

WHERE (chol\_status='Borderline') or (chol\_status='High');

var cholesterol;

class chol\_status;

run;

1. Write a program to read SASHELP.CARS data set. Create a summary data set named ‘descripcars’ with summary statistics n, mean, median, max, min, std, and range of variables mpg\_city and mpg\_highway for each Make. Suppress output window using noprint and autoname output variables. View results using proc print.

/\* problem 4 \*/

proc means data=sashelp.cars noprint;

var mpg\_city mpg\_highway;

class make;

output out=descripcars

n(mpg\_city mpg\_highway)=

mean(mpg\_city mpg\_highway)=

median(mpg\_city mpg\_highway)=

max(mpg\_city mpg\_highway)=

min(mpg\_city mpg\_highway)=

std(mpg\_city mpg\_highway)=

range(mpg\_city mpg\_highway)=

/ autoname;

run;

proc print data=descripcars;

run;

1. Write a program to read SASHELP.CARS data set. Produce a two-way frequency report of MSRP by Make suppressing row and column percent. Format MSRP values by Low (less than 67000), Med (67000 to 134000), and High (greater than 134000). Title the report ‘Car MSRP Distribution by Make’.

/\* problem 5 \*/

proc format;

value msrpformat

low-<67000 = 'Low'

67000-134000 = 'Medium'

134000->high = 'High';

run;

proc freq data=sashelp.cars;

title 'Car MSRP Distribution by Make';

tables msrp\*make / norow nocol;

format msrp msrpformat.;

run;