**proc** **import**

datafile='/home/nabhankazi0/cars.xlsx'

out=carsdata

dbms=xlsx

replace;

getnames=yes;

**proc** **print** data=carsdata (obs=**10**);

**proc** **sgplot** data=carsdata;

vbox price / category= status;

**proc** **anova** data=carsdata;

class status;

model price=status;

means status / tukey;

**data** usedcars;

set carsdata;

if status= 'Used';

**proc** **print** data=usedcars (obs=**10**);

**data** newcars;

set carsdata;

if status= 'New';

**proc** **print** data=newcars (obs=**10**);

\*usedcars;

**proc** **sgplot** data=usedcars;

vbox price / category= colour;

**proc** **sgplot** data=usedcars;

vbox price / category= bodytype;

**proc** **sgplot** data=usedcars;

vbox price / category= transmission;

**proc** **sgplot** data=usedcars;

vbox price / category= carproof;

**proc** **sgplot** data=usedcars;

vbox price / category= make;

**proc** **sgplot** data=usedcars;

vbox price / category= fuel;

**proc** **sgplot** data=usedcars;

vbox price / category= location;

**proc** **sgplot** data=usedcars;

vbox price / category= cylinders;

**proc** **sgplot** data=usedcars;

scatter x=km y=price / jitter;

reg x=km y=price / jitter;

**proc** **corr** data=usedcars;

var km price;

**proc** **sgplot** data=usedcars;

scatter x=year y=price / jitter;

reg x=year y=price / jitter;

**proc** **corr** data=usedcars;

var year price;

\*newcars;

**proc** **sgplot** data=newcars;

vbox price / category= colour;

**proc** **sgplot** data=newcars;

vbox price / category= bodytype;

**proc** **sgplot** data=newcars;

vbox price / category= transmission;

**proc** **sgplot** data=newcars;

vbox price / category= make;

**proc** **sgplot** data=newcars;

vbox price / category= cylinders;

**proc** **sgplot** data=newcars;

vbox price / category= fuel;

**proc** **sgplot** data=newcars;

vbox price / category= location;

\*regression models;

**proc** **glm** data=usedcars;

class transmission location make bodytype colour carproof fuel;

model price= transmission location make bodytype colour carproof fuel km year cylinders;

**proc** **glm** data=usedcars;

class transmission make bodytype colour carproof fuel;

model price= transmission make bodytype colour carproof fuel km year cylinders;

**proc** **glm** data=usedcars;

class transmission make bodytype carproof fuel;

model price= transmission make bodytype carproof fuel km year cylinders;

**proc** **glm** data=usedcars;

class make bodytype carproof fuel;

model price= make bodytype carproof fuel km year cylinders;

**proc** **glm** data=usedcars;

class make bodytype fuel;

model price= make bodytype fuel km year cylinders;

**proc** **glm** data=usedcars;

class make bodytype;

model price= make bodytype km year cylinders;

**proc** **glm** data=newcars;

class transmission location make bodytype colour fuel;

model price= transmission location make bodytype colour fuel cylinders;

**proc** **glm** data=newcars;

class transmission location make bodytype fuel;

model price= transmission location make bodytype fuel cylinders;

**proc** **glm** data=newcars;

class location make bodytype fuel;

model price= location make bodytype fuel cylinders;

**proc** **glm** data=newcars;

class make bodytype fuel;

model price= make bodytype fuel cylinders;