```
*;
*;
* Kings County House Sales - Multiple Regression Analysis;
*;
*    ods graphics on;
*;
*options ls=80 ps=50 nodate pageno=1;
*;
ods pdf
file="\\Mac\Home\Downloads\kc_1K_ViewCondGradeModel_NoInfluentialsOutput.pdf"
;
*;
Title 'Kings County House Sales Regression Results';
*;
* Input Kings County House Sales ;
*;
proc import
datafile="\\Mac\Home\Downloads\kc_house_data_1K_new_noinfluentials.csv"
        out=kchousesales1K
        dbms=csv
        replace;

     *getnames=no;
run;
*;
* Correlation Matrix - All Variables;
*;
*Proc Corr Data = kchousesales1K;
*    Var Price Bedrooms Bathrooms sqft_living sqft_lot Floors sqft_basement
sqft_living15 sqft_lot15 Age_At_Sale;
*;
*;
* Regression Analysis - Price = sqft_living;
*;
*Proc Reg Data = kchousesales1K plots(unpack);
*     Model Price = sqft_living / STB Influence P R VIF Tol;
*     Plot NQQ.*R. NPP.*R.; * NQQ.*R and NPP.*R request specific separate
Normal Quantile and Normal Probability Plots;
*;
*;
/*Proc Reg Data = kchousesales1K Corr Simple plots(unpack);
      Model Price = Bedrooms Bathrooms sqft_living sqft_lot Floors View
Condition Grade sqft_basement sqft_living15 sqft_lot15 Age_At_Sale /
Selection=Stepwise SLEntry=0.05 STB Influence P R VIF Tol;
      Plot NQQ.*R. NPP.*R.;
      Output out=kchousesalesreg1(keep = Id SellDate Price Bedrooms Bathrooms
sqft_living sqft_lot Floors
    Waterfront View Condition Grade sqft_basement yr_built yr_renovated
Zipcode sqft_living15 sqft_lot15 Age_At_Sale
    Multi_Storey_House Has_Basement r lev cd dffit covratio)
    rstudent=r h=lev cookd=cd dffits=dffit covratio=covratio;*/
*;
*;
Proc Reg Data = kchousesales1K Corr Simple plots(unpack);
      Model Price =  Bedrooms Bathrooms sqft_living Floors View Condition
Grade Age_At_Sale / STB Influence P R VIF Tol;
      Plot NQQ.*R. NPP.*R.;
```

```
/*    Output out=kchousesalesreg1(keep = Id SellDate Price Bedrooms Bathrooms
sqft_living sqft_lot Floors
    Waterfront View Condition Grade sqft_basement yr_built yr_renovated
Zipcode sqft_living15 sqft_lot15 Age_At_Sale
    Multi_Storey_House Has_Basement r lev cd dffit covratio)
    rstudent=r h=lev cookd=cd dffits=dffit covratio=covratio;*/
*;
*;
/*Proc Reg Data = HBAT Corr Simple plots(unpack);
      Model X19 = X6 X7 X8 X9 X10 X11 X12 X13 X14 X15 X16 X17 X18 / STB
Influence P R VIF Tol;
      Plot NQQ.*R. NPP.*R.;
*;
*;
Proc Reg Data = HBAT Corr Simple plots(unpack);
      Model X19 = X3 X6 X7 X9 X11 X12 / STB Influence P R VIF Tol;
      Plot NQQ.*R. NPP.*R.;*/
*;
*;
*     ods graphics off;
*;
*;
Run;
Quit;
ods pdf close;
```