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/*
*
* Task code generated by SAS Studio 3.8
*
* Generated on '3/7/23, 11:18 AM'
* Generated by 'u50204747'
* Generated on server 'ODAWS04-USW2.ODA.SAS.COM'
* Generated on SAS platform 'Linux LIN X64 3.10.0-1062.9.1.el7.x86_64'
* Generated on SAS version '9.04.01M7P08062020'
* Generated on browser 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Sa
* Generated on web client 'https://odamid-usw2.oda.sas.com/SASStudio/main?locale=en_US&zone=GMT-07%253A00&ticket=ST-76295-dol
*/

options validvarname=any;
ods noproctitle;
ods graphics / imagemap=on;
footnote "Report Created on %sysfunc(today(), MMDDYYD10.) at %sysfunc(time(), timeampm.)";

/* Scatter plot matrix macro */
%macro scatterPlotMatrix(xVars=, title=, groupVar=);
  proc sgscatter data=MYDATA.'2022_WELL_DATA'n;
    matrix &xVars / %if(&groupVar ne %str()) %then
      %do;
        group=&groupVar legend=(sortorder=ascending) %end;
        diagonal=(histogram normal);
        title &title;
      run;

    title;
  %mend scatterPlotMatrix;

/* Regression scatter plot macro */
%macro regressionScatterplot(xVar=, yVar=, title=, groupVar=);
  proc sgscatter data=MYDATA.'2022_WELL_DATA'n;
    plot (&yVar)*(&xVar) / %if(&groupVar ne %str()) %then
      %do;
        group=&groupVar legend=(sortorder=ascending) %end;
        reg;
        title &title;
      run;

    title;
  %mend regressionScatterplot;

%scatterPlotMatrix(xVars=Oil_Sales Gas_Sales tot_mill asd_val Tax_Est,
  title="Scatter plot matrix grouped by Well_Stat", groupVar=Well_Stat);
%regressionScatterplot(xVar=Oil_Sales, yVar=Tax_Est,
  title="Tax_Est vs Oil_Sales grouped by Well_Stat", groupVar=Well_Stat);
%regressionScatterplot(xVar=Gas_Sales, yVar=Tax_Est,
  title="Tax_Est vs Gas_Sales grouped by Well_Stat", groupVar=Well_Stat);
%regressionScatterplot(xVar=tot_mill, yVar=Tax_Est,
  title="Tax_Est vs tot_mill grouped by Well_Stat", groupVar=Well_Stat);
%regressionScatterplot(xVar=asd_val, yVar=Tax_Est,
  title="Tax_Est vs asd_val grouped by Well_Stat", groupVar=Well_Stat);

proc sort data=MYDATA.'2022_WELL_DATA'n out=WORK.TempSorted4877;
  by Well_Stat;
run;

proc boxplot data=WORK.TempSorted4877;
  plot (Oil_Sales Gas_Sales tot_mill asd_val Tax_Est)*Well_Stat /
    boxstyle=schematic;
run;

proc datasets library=WORK noprint;
  delete TempSorted4877;
run;

```