```
/*
 *
 * Task code generated by SAS Studio 3.8
 *
 * Generated on '3/7/23, 11:09 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_ASSESSOR_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_ASSESSOR_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=MILL_LEVY TOT_ACTVAL Calc_ASSESS_RATE
    Calc_Assessed_val Calc_Taxes,
    title="Scatter plot matrix grouped by State_Use_Dscr",
    groupVar=State_Use_Dscr);
%regressionScatterplot(xVar=MILL_LEVY, yVar=Calc_Taxes,
    title="Calc_Taxes vs MILL_LEVY grouped by State_Use_Dscr",
    groupVar=State_Use_Dscr);
%regressionScatterplot(xVar=TOT_ACTVAL, yVar=Calc_Taxes,
    title="Calc_Taxes vs TOT_ACTVAL grouped by State_Use_Dscr",
    groupVar=State_Use_Dscr);
%regressionScatterplot(xVar=Calc_ASSESS_RATE, yVar=Calc_Taxes,
    title="Calc_Taxes vs Calc_ASSESS_RATE grouped by State_Use_Dscr",
    groupVar=State_Use_Dscr);
%regressionScatterplot(xVar=Calc_Assessed_val, yVar=Calc_Taxes,
    title="Calc_Taxes vs Calc_Assessed_val grouped by State_Use_Dscr",
    groupVar=State_Use_Dscr);

proc sort data=MYDATA.'2022_ASSESSOR_DATA'n out=WORK.TempSorted4877;
    by State_Use_Dscr;
run;

proc boxplot data=WORK.TempSorted4877;
    plot (MILL_LEVY TOT_ACTVAL Calc_ASSESS_RATE Calc_Assessed_val
        Calc_Taxes)*State_Use_Dscr / boxstyle=schematic;
run;

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