**Agency Totals (Codes for cleaning, merging and regression models)**

**PROC** **IMPORT** OUT=SASDATA.AgencyTotals2017\_TeamG

DATAFILE='\\adm.suffolk.edu\uem\STD-RedirectedFolders\faj04046\Documents\Datasets\New SAS Project\DATA\2017EMPLOYEES.XLSM'

DBMS=XLSX REPLACE;

SHEET='Agency Totals';

GETNAMES=YES;

**RUN**;

**DATA** SASDATA.AgencyTotals2017\_TeamG;

SET SASDATA.AgencyTotals2017\_TeamG;

Year = **2017**;

WHERE State = "MA";

RENAME Name = Agency;

RENAME 'Legacy NTD ID'n=Legacy\_NTD\_ID;

RENAME 'NTD ID'N=NTD\_ID;

RENAME 'Organization Type'n=Organization\_Type;

RENAME 'Reporter Type'n=Reporter\_Type;

RENAME 'Primary UZA Population'n=Primary\_UZA\_POPULATION;

RENAME 'Agency VOMS'n=Agency\_VOMS;

DROP 'All Employee Types:'n;

RENAME 'Vehicle Operations Hours'n=Vehicle\_Ops\_Hours;

DROP 'Vehicle Operations Hours Questio'n;

RENAME 'Vehicle Maintenance Hours'n=Vehicle\_Maintenance\_Hours;

DROP 'Vehicle Maintenance Hours Questi'n;

RENAME 'Facility Maintenance Hours'n=Facility\_Maintenance\_Hours;

DROP 'Facility Maintenance Hours Quest'n;

RENAME 'General Admin Hours'n=General\_Admin\_Hours;

DROP 'General Admin Hours Questionable'n;

RENAME 'Capital Labor Hours'n=Capital\_Labour\_Hours;

DROP 'Capital Labor Hours Questionable'n;

RENAME 'Total Hours'n=Total\_Hours;

DROP 'Total Hours Questionable'n;

RENAME 'Vehicle Operations Employee Coun'n=Vehicle\_Ops\_Emp\_Count;

RENAME 'Vehicle Maintenance Employee Cou'n=Vehicle\_Maint\_Emp\_Count;

RENAME 'Facility Maintenance Employee Co'n=Facility\_Maint\_Emp\_Count;

RENAME 'General Admin Employee Count'n= General\_Adm\_Emp\_Count;

RENAME 'Capital Labor Employee Count'n= Capital\_Lab\_Emp\_Count;

RENAME 'Total Employee Count'n= Total\_Emp\_Count;

DROP 'Full Time Employees:'n;

RENAME 'ft vehicle operations hours'n = FT\_Vehicle\_Ops\_Hours;

DROP 'ft vehicle operations hours ques'n;

RENAME 'FT VEHICLE MAINTENANCE HOURS'N=FT\_Vehicle\_Maint\_Hours;

DROP 'FT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'FT FACILITY MAINTENANCE HOURS'N=FT\_Facility\_Maint\_Hours;

DROP 'ft facility maintenance hours qu'n;

RENAME 'FT GENERAL ADMIN HOURS'N=FT\_Gen\_Maint\_Hours;

DROP 'ft general admin hours questiona'n;

RENAME 'FT CAPITAL LABOR HOURS'N = FT\_Cap\_Lab\_Hours;

DROP 'FT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'ft total hours'n = FT\_Total\_Hours;

DROP 'FT TOTAL HOURS QUESTIONABLE'N;

RENAME 'FT VEHICLE OPERATIONS EMPLOYEE C'N=FT\_Vehicle\_Emp\_Count;

DROP 'FT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'ft vehicle maintenance employee'n = FT\_Vehicle\_Maint\_Emp\_C;

DROP 'FT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'FT FACILITY MAINTENANCE EMPLOYEE'N=FT\_Facility\_Maint\_Emp\_C;

DROP 'FT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'FT GENERAL ADMIN EMPLOYEE COUNT'N=FT\_Gen\_Admin\_Emp\_C;

DROP 'FT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'FT CAPITAL LABOR EMPLOYEE COUNT'N=FT\_Cap\_Lab\_Emp\_C;

DROP 'FT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'FT TOTAL EMPLOYEE COUNT'N=FT\_Total\_Emp\_C;

DROP 'ft total employee count question'n;

DROP 'Part Time Employees:'n;

RENAME 'PT VEHICLE OPERATIONS HOURS'N=PT\_Vehicle\_Ops\_Hours;

DROP 'PT VEHICLE OPERATIONS HOURS QUES'N;

RENAME 'PT VEHICLE MAINTENANCE HOURS'N=PT\_VEHICLE\_MAINT\_HOURS;

DROP 'PT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'PT FACILITY MAINTENANCE HOURS'N=PT\_Facility\_Maint\_Hours;

DROP 'pt facility maintenance hours qu'n;

RENAME 'PT GENERAL ADMIN HOURS'N=PT\_GEN\_ADMIN\_Hours;

DROP 'PT GENERAL ADMIN HOURS QUESTIONA'N;

RENAME 'PT CAPITAL LABOR HOURS'N=PT\_CAP\_Lab\_Hours;

DROP 'PT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'PT TOTAL HOURS'N=PT\_Total\_Hours;

DROP 'PT TOTAL HOURS QUESTIONABLE'N;

RENAME 'PT VEHICLE OPERATIONS EMPLOYEE C'N=PT\_Vehicle\_Ops\_Emp\_C;

DROP 'PT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'PT VEHICLE MAINTENANCE EMPLOYEE'N=PT\_Vehicle\_Maint\_EMP\_C;

DROP 'PT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'PT FACILITY MAINTENANCE EMPLOYEE'N=PT\_Facility\_Maint\_Emp\_C;

DROP 'PT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'PT GENERAL ADMIN EMPLOYEE COUNT'N=PT\_GEN\_Admin\_Emp\_C;

DROP 'PT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'PT CAPITAL LABOR EMPLOYEE COUNT'N=PT\_Cap\_Lab\_Emp\_C;

DROP 'PT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'PT TOTAL EMPLOYEE COUNT'N=PT\_Total\_Emp\_C;

DROP 'PT TOTAL EMPLOYEE COUNT QUESTION'N;

DROP 'Salary Expenses:'n;

RENAME 'Vehicle Operations Salaries'n=Vehicle\_Ops\_Sal;

DROP 'Vehicle Operations Salaries Ques'n;

RENAME 'Vehicle Maintenance Salaries'n=Vehicle\_Maint\_Sal;

DROP 'Vehicle Maintenance Salaries Que'n;

RENAME 'Facility Maintenance Salaries'n=Facility\_Maint\_Sal;

DROP 'Facility Maintenance Salaries Qu'n;

RENAME 'General Admin Salaries'n=GEN\_Admin\_Sal;

DROP 'General Admin Salaries Questiona'n;

RENAME 'Total Operating Salaries'n=Total\_Ops\_Sal;

DROP 'Total Operating Salaries Questio'n;

DROP'Average Hourly Wage:'n;

RENAME 'Vehicle Operations Wage'n=Vehicle\_Ops\_Wage;

DROP 'Vehicle Operations Wage Question'n;

RENAME 'Vehicle Maintenance Wage'n=Vehicle\_Maint\_Wage;

DROP 'Vehicle Maintenance Wage Questio'n;

RENAME 'Facility Maintenance Wage'n=Facility\_Maint\_Wage;

DROP 'Facility Maintenance Wage Questi'n;

DROP 'General Admin Wage Questionable'n;

RENAME 'General Admin Wage'n=Gen\_Admin\_Wage;

RENAME 'Total Operating Wage'n =Total\_Ops\_Wage;

DROP 'Total Operating Wage Questionabl'n;

DROP 'Any data questionable?'n;

DROP DD;

DROP DE;

DROP DF;

DROP '1'N;

DROP 'Vehicle Operations Employee Cou1'n;

DROP 'Capital Labor Employee Count Que'n;

DROP 'Total Employee Count Questionabl'n;

DROP 'General Admin Employee Count Que'n;

DROP 'Vehicle Maintenance Employee Co1'n;

DROP 'Facility Maintenance Employee C1'n;

**Run**;

**PROC** **SORT** DATA=SASDATA.AgencyTotals2017\_TeamG;

BY Year;

**RUN**;

**PROC** **IMPORT** OUT=SASDATA.AgencyTotals2018\_TeamG

DATAFILE='\\adm.suffolk.edu\uem\STD-RedirectedFolders\faj04046\Documents\Datasets\New SAS Project\DATA\2018EMPLOYEES.XLSM'

DBMS=XLSX REPLACE;

SHEET='Agency Totals';

GETNAMES=YES;

**RUN**;

**DATA** SASDATA.AgencyTotals2018\_TeamG;

SET SASDATA.AgencyTotals2018\_TeamG;

Year = **2018**;

WHERE State = "MA";

RENAME Name=Agency;

RENAME 'Legacy NTD ID'n=Legacy\_NTD\_ID;

RENAME 'NTD ID'N=NTD\_ID;

RENAME 'Organization Type'n=Organization\_Type;

RENAME 'Reporter Type'n=Reporter\_Type;

RENAME 'Primary UZA Population'n=Primary\_UZA\_POPULATION;

RENAME 'Agency VOMS'n=Agency\_VOMS;

DROP 'All Employee Types:'n;

RENAME 'Vehicle Operations Hours'n=Vehicle\_Ops\_Hours;

DROP 'Vehicle Operations Hours Questio'n;

RENAME 'Vehicle Maintenance Hours'n=Vehicle\_Maintenance\_Hours;

DROP 'Vehicle Maintenance Hours Questi'n;

RENAME 'Facility Maintenance Hours'n=Facility\_Maintenance\_Hours;

DROP 'Facility Maintenance Hours Quest'n;

RENAME 'General Admin Hours'n=General\_Admin\_Hours;

DROP 'General Admin Hours Questionable'n;

RENAME 'Capital Labor Hours'n=Capital\_Labour\_Hours;

DROP 'Capital Labor Hours Questionable'n;

RENAME 'Total Hours'n=Total\_Hours;

DROP 'Total Hours Questionable'n;

RENAME 'Vehicle Operations Employee Coun'n=Vehicle\_Ops\_Emp\_Count;

RENAME 'Vehicle Maintenance Employee Cou'n=Vehicle\_Maint\_Emp\_Count;

RENAME 'Facility Maintenance Employee Co'n=Facility\_Maint\_Emp\_Count;

RENAME 'General Admin Employee Count'n= General\_Adm\_Emp\_Count;

RENAME 'Capital Labor Employee Count'n= Capital\_Lab\_Emp\_Count;

RENAME 'Total Employee Count'n= Total\_Emp\_Count;

DROP 'Full Time Employees:'n;

RENAME 'ft vehicle operations hours'n = FT\_Vehicle\_Ops\_Hours;

DROP 'ft vehicle operations hours ques'n;

RENAME 'FT VEHICLE MAINTENANCE HOURS'N=FT\_Vehicle\_Maint\_Hours;

DROP 'FT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'FT FACILITY MAINTENANCE HOURS'N=FT\_Facility\_Maint\_Hours;

DROP 'ft facility maintenance hours qu'n;

RENAME 'FT GENERAL ADMIN HOURS'N=FT\_Gen\_Maint\_Hours;

DROP 'ft general admin hours questiona'n;

RENAME 'FT CAPITAL LABOR HOURS'N = FT\_Cap\_Lab\_Hours;

DROP 'FT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'ft total hours'n = FT\_Total\_Hours;

DROP 'FT TOTAL HOURS QUESTIONABLE'N;

RENAME 'FT VEHICLE OPERATIONS EMPLOYEE C'N=FT\_Vehicle\_Emp\_Count;

DROP 'FT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'ft vehicle maintenance employee'n = FT\_Vehicle\_Maint\_Emp\_C;

DROP 'FT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'FT FACILITY MAINTENANCE EMPLOYEE'N=FT\_Facility\_Maint\_Emp\_C;

DROP 'FT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'FT GENERAL ADMIN EMPLOYEE COUNT'N=FT\_Gen\_Admin\_Emp\_C;

DROP 'FT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'FT CAPITAL LABOR EMPLOYEE COUNT'N=FT\_Cap\_Lab\_Emp\_C;

DROP 'FT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'FT TOTAL EMPLOYEE COUNT'N=FT\_Total\_Emp\_C;

DROP 'ft total employee count question'n;

DROP 'Part Time Employees:'n;

RENAME 'PT VEHICLE OPERATIONS HOURS'N=PT\_Vehicle\_Ops\_Hours;

DROP 'PT VEHICLE OPERATIONS HOURS QUES'N;

RENAME 'PT VEHICLE MAINTENANCE HOURS'N=PT\_VEHICLE\_MAINT\_HOURS;

DROP 'PT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'PT FACILITY MAINTENANCE HOURS'N=PT\_Facility\_Maint\_Hours;

DROP 'pt facility maintenance hours qu'n;

RENAME 'PT GENERAL ADMIN HOURS'N=PT\_GEN\_ADMIN\_Hours;

DROP 'PT GENERAL ADMIN HOURS QUESTIONA'N;

RENAME 'PT CAPITAL LABOR HOURS'N=PT\_CAP\_Lab\_Hours;

DROP 'PT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'PT TOTAL HOURS'N=PT\_Total\_Hours;

DROP 'PT TOTAL HOURS QUESTIONABLE'N;

RENAME 'PT VEHICLE OPERATIONS EMPLOYEE C'N=PT\_Vehicle\_Ops\_Emp\_C;

DROP 'PT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'PT VEHICLE MAINTENANCE EMPLOYEE'N=PT\_Vehicle\_Maint\_EMP\_C;

DROP 'PT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'PT FACILITY MAINTENANCE EMPLOYEE'N=PT\_Facility\_Maint\_Emp\_C;

DROP 'PT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'PT GENERAL ADMIN EMPLOYEE COUNT'N=PT\_GEN\_Admin\_Emp\_C;

DROP 'PT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'PT CAPITAL LABOR EMPLOYEE COUNT'N=PT\_Cap\_Lab\_Emp\_C;

DROP 'PT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'PT TOTAL EMPLOYEE COUNT'N=PT\_Total\_Emp\_C;

DROP 'PT TOTAL EMPLOYEE COUNT QUESTION'N;

DROP 'Salary Expenses:'n;

RENAME 'Vehicle Operations Salaries'n=Vehicle\_Ops\_Sal;

DROP 'Vehicle Operations Salaries Ques'n;

RENAME 'Vehicle Maintenance Salaries'n=Vehicle\_Maint\_Sal;

DROP 'Vehicle Maintenance Salaries Que'n;

RENAME 'Facility Maintenance Salaries'n=Facility\_Maint\_Sal;

DROP 'Facility Maintenance Salaries Qu'n;

RENAME 'General Admin Salaries'n=GEN\_Admin\_Sal;

DROP 'General Admin Salaries Questiona'n;

RENAME 'Total Operating Salaries'n=Total\_Ops\_Sal;

DROP 'Total Operating Salaries Questio'n;

DROP'Average Hourly Wage:'n;

RENAME 'Vehicle Operations Wage'n=Vehicle\_Ops\_Wage;

DROP 'Vehicle Operations Wage Question'n;

RENAME 'Vehicle Maintenance Wage'n=Vehicle\_Maint\_Wage;

DROP 'Vehicle Maintenance Wage Questio'n;

RENAME 'Facility Maintenance Wage'n=Facility\_Maint\_Wage;

DROP 'Facility Maintenance Wage Questi'n;

DROP 'General Admin Wage Questionable'n;

RENAME 'General Admin Wage'n=Gen\_Admin\_Wage;

RENAME 'Total Operating Wage'n =Total\_Ops\_Wage;

DROP 'Total Operating Wage Questionabl'n;

DROP 'Any data questionable?'n;

DROP DD;

DROP DE;

DROP DF;

DROP '1'N;

DROP 'Vehicle Operations Employee Cou1'n;

DROP 'Capital Labor Employee Count Que'n;

DROP 'Total Employee Count Questionabl'n;

DROP 'General Admin Employee Count Que'n;

DROP 'Vehicle Maintenance Employee Co1'n;

DROP 'Facility Maintenance Employee C1'n;

**Run**;

**PROC** **SORT** DATA=SASDATA.AgencyTotals2018\_TeamG;

BY Year;

**RUN**;

**PROC** **IMPORT** OUT=SASDATA.AgencyTotals2019\_TeamG

DATAFILE='\\adm.suffolk.edu\uem\STD-RedirectedFolders\faj04046\Documents\Datasets\New SAS Project\DATA\2019EMPLOYEES.XLSM'

DBMS=XLSX REPLACE;

SHEET='Agency Totals';

GETNAMES=YES;

**RUN**;

**DATA** SASDATA.AgencyTotals2019\_TeamG;

SET SASDATA.AgencyTotals2019\_TeamG;

Year = **2019**;

WHERE State = "MA";

RENAME Name=Agency;

RENAME 'Legacy NTD ID'n=Legacy\_NTD\_ID;

RENAME 'NTD ID'N=NTD\_ID;

RENAME 'Organization Type'n=Organization\_Type;

RENAME 'Reporter Type'n=Reporter\_Type;

RENAME 'Primary UZA Population'n=Primary\_UZA\_POPULATION;

RENAME 'Agency VOMS'n=Agency\_VOMS;

DROP 'All Employee Types:'n;

RENAME 'Vehicle Operations Hours'n=Vehicle\_Ops\_Hours;

DROP 'Vehicle Operations Hours Questio'n;

RENAME 'Vehicle Maintenance Hours'n=Vehicle\_Maintenance\_Hours;

DROP 'Vehicle Maintenance Hours Questi'n;

RENAME 'Facility Maintenance Hours'n=Facility\_Maintenance\_Hours;

DROP 'Facility Maintenance Hours Quest'n;

RENAME 'General Admin Hours'n=General\_Admin\_Hours;

DROP 'General Admin Hours Questionable'n;

RENAME 'Capital Labor Hours'n=Capital\_Labour\_Hours;

DROP 'Capital Labor Hours Questionable'n;

RENAME 'Total Hours'n=Total\_Hours;

DROP 'Total Hours Questionable'n;

RENAME 'Vehicle Operations Employee Coun'n=Vehicle\_Ops\_Emp\_Count;

RENAME 'Vehicle Maintenance Employee Cou'n=Vehicle\_Maint\_Emp\_Count;

RENAME 'Facility Maintenance Employee Co'n=Facility\_Maint\_Emp\_Count;

RENAME 'General Admin Employee Count'n= General\_Adm\_Emp\_Count;

RENAME 'Capital Labor Employee Count'n= Capital\_Lab\_Emp\_Count;

RENAME 'Total Employee Count'n= Total\_Emp\_Count;

DROP 'Full Time Employees:'n;

RENAME 'ft vehicle operations hours'n = FT\_Vehicle\_Ops\_Hours;

DROP 'ft vehicle operations hours ques'n;

RENAME 'FT VEHICLE MAINTENANCE HOURS'N=FT\_Vehicle\_Maint\_Hours;

DROP 'FT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'FT FACILITY MAINTENANCE HOURS'N=FT\_Facility\_Maint\_Hours;

DROP 'ft facility maintenance hours qu'n;

RENAME 'FT GENERAL ADMIN HOURS'N=FT\_Gen\_Maint\_Hours;

DROP 'ft general admin hours questiona'n;

RENAME 'FT CAPITAL LABOR HOURS'N = FT\_Cap\_Lab\_Hours;

DROP 'FT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'ft total hours'n = FT\_Total\_Hours;

DROP 'FT TOTAL HOURS QUESTIONABLE'N;

RENAME 'FT VEHICLE OPERATIONS EMPLOYEE C'N=FT\_Vehicle\_Emp\_Count;

DROP 'FT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'ft vehicle maintenance employee'n = FT\_Vehicle\_Maint\_Emp\_C;

DROP 'FT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'FT FACILITY MAINTENANCE EMPLOYEE'N=FT\_Facility\_Maint\_Emp\_C;

DROP 'FT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'FT GENERAL ADMIN EMPLOYEE COUNT'N=FT\_Gen\_Admin\_Emp\_C;

DROP 'FT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'FT CAPITAL LABOR EMPLOYEE COUNT'N=FT\_Cap\_Lab\_Emp\_C;

DROP 'FT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'FT TOTAL EMPLOYEE COUNT'N=FT\_Total\_Emp\_C;

DROP 'ft total employee count question'n;

DROP 'Part Time Employees:'n;

RENAME 'PT VEHICLE OPERATIONS HOURS'N=PT\_Vehicle\_Ops\_Hours;

DROP 'PT VEHICLE OPERATIONS HOURS QUES'N;

RENAME 'PT VEHICLE MAINTENANCE HOURS'N=PT\_VEHICLE\_MAINT\_HOURS;

DROP 'PT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'PT FACILITY MAINTENANCE HOURS'N=PT\_Facility\_Maint\_Hours;

DROP 'pt facility maintenance hours qu'n;

RENAME 'PT GENERAL ADMIN HOURS'N=PT\_GEN\_ADMIN\_Hours;

DROP 'PT GENERAL ADMIN HOURS QUESTIONA'N;

RENAME 'PT CAPITAL LABOR HOURS'N=PT\_CAP\_Lab\_Hours;

DROP 'PT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'PT TOTAL HOURS'N=PT\_Total\_Hours;

DROP 'PT TOTAL HOURS QUESTIONABLE'N;

RENAME 'PT VEHICLE OPERATIONS EMPLOYEE C'N=PT\_Vehicle\_Ops\_Emp\_C;

DROP 'PT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'PT VEHICLE MAINTENANCE EMPLOYEE'N=PT\_Vehicle\_Maint\_EMP\_C;

DROP 'PT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'PT FACILITY MAINTENANCE EMPLOYEE'N=PT\_Facility\_Maint\_Emp\_C;

DROP 'PT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'PT GENERAL ADMIN EMPLOYEE COUNT'N=PT\_GEN\_Admin\_Emp\_C;

DROP 'PT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'PT CAPITAL LABOR EMPLOYEE COUNT'N=PT\_Cap\_Lab\_Emp\_C;

DROP 'PT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'PT TOTAL EMPLOYEE COUNT'N=PT\_Total\_Emp\_C;

DROP 'PT TOTAL EMPLOYEE COUNT QUESTION'N;

DROP 'Salary Expenses:'n;

RENAME 'Vehicle Operations Salaries'n=Vehicle\_Ops\_Sal;

DROP 'Vehicle Operations Salaries Ques'n;

RENAME 'Vehicle Maintenance Salaries'n=Vehicle\_Maint\_Sal;

DROP 'Vehicle Maintenance Salaries Que'n;

RENAME 'Facility Maintenance Salaries'n=Facility\_Maint\_Sal;

DROP 'Facility Maintenance Salaries Qu'n;

RENAME 'General Admin Salaries'n=GEN\_Admin\_Sal;

DROP 'General Admin Salaries Questiona'n;

RENAME 'Total Operating Salaries'n=Total\_Ops\_Sal;

DROP 'Total Operating Salaries Questio'n;

DROP'Average Hourly Wage:'n;

RENAME 'Vehicle Operations Wage'n=Vehicle\_Ops\_Wage;

DROP 'Vehicle Operations Wage Question'n;

RENAME 'Vehicle Maintenance Wage'n=Vehicle\_Maint\_Wage;

DROP 'Vehicle Maintenance Wage Questio'n;

RENAME 'Facility Maintenance Wage'n=Facility\_Maint\_Wage;

DROP 'Facility Maintenance Wage Questi'n;

DROP 'General Admin Wage Questionable'n;

RENAME 'General Admin Wage'n=Gen\_Admin\_Wage;

RENAME 'Total Operating Wage'n =Total\_Ops\_Wage;

DROP 'Total Operating Wage Questionabl'n;

DROP 'Any data questionable?'n;

DROP DD;

DROP DE;

DROP DF;

DROP '1'N;

DROP 'Vehicle Operations Employee Cou1'n;

DROP 'Capital Labor Employee Count Que'n;

DROP 'Total Employee Count Questionabl'n;

DROP 'General Admin Employee Count Que'n;

DROP 'Vehicle Maintenance Employee Co1'n;

DROP 'Facility Maintenance Employee C1'n;

**Run**;

**PROC** **SORT** DATA=SASDATA.AgencyTotals2019\_TeamG;

BY Year;

**RUN**;

**PROC** **IMPORT** OUT=SASDATA.AgencyTotals2020\_TeamG

DATAFILE='\\adm.suffolk.edu\uem\STD-RedirectedFolders\faj04046\Documents\Datasets\New SAS Project\DATA\2020EMPLOYEES.XLSM'

DBMS=XLSX REPLACE;

SHEET='Agency Totals';

GETNAMES=YES;

**RUN**;

**DATA** SASDATA.AgencyTotals2020\_TeamG;

SET SASDATA.AgencyTotals2020\_TeamG;

Year = **2020**;

WHERE State = "MA";

RENAME Name=Agency;

RENAME 'Legacy NTD ID'n=Legacy\_NTD\_ID;

RENAME 'NTD ID'N=NTD\_ID;

RENAME 'Organization Type'n=Organization\_Type;

RENAME 'Reporter Type'n=Reporter\_Type;

RENAME 'Primary UZA Population'n=Primary\_UZA\_POPULATION;

RENAME 'Agency VOMS'n=Agency\_VOMS;

DROP 'All Employee Types:'n;

RENAME 'Vehicle Operations Hours'n=Vehicle\_Ops\_Hours;

DROP 'Vehicle Operations Hours Questio'n;

RENAME 'Vehicle Maintenance Hours'n=Vehicle\_Maintenance\_Hours;

DROP 'Vehicle Maintenance Hours Questi'n;

RENAME 'Facility Maintenance Hours'n=Facility\_Maintenance\_Hours;

DROP 'Facility Maintenance Hours Quest'n;

RENAME 'General Admin Hours'n=General\_Admin\_Hours;

DROP 'General Admin Hours Questionable'n;

RENAME 'Capital Labor Hours'n=Capital\_Labour\_Hours;

DROP 'Capital Labor Hours Questionable'n;

RENAME 'Total Hours'n=Total\_Hours;

DROP 'Total Hours Questionable'n;

RENAME 'Vehicle Operations Employee Coun'n=Vehicle\_Ops\_Emp\_Count;

RENAME 'Vehicle Maintenance Employee Cou'n=Vehicle\_Maint\_Emp\_Count;

RENAME 'Facility Maintenance Employee Co'n=Facility\_Maint\_Emp\_Count;

RENAME 'General Admin Employee Count'n= General\_Adm\_Emp\_Count;

RENAME 'Capital Labor Employee Count'n= Capital\_Lab\_Emp\_Count;

RENAME 'Total Employee Count'n= Total\_Emp\_Count;

DROP 'Full Time Employees:'n;

RENAME 'ft vehicle operations hours'n = FT\_Vehicle\_Ops\_Hours;

DROP 'ft vehicle operations hours ques'n;

RENAME 'FT VEHICLE MAINTENANCE HOURS'N=FT\_Vehicle\_Maint\_Hours;

DROP 'FT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'FT FACILITY MAINTENANCE HOURS'N=FT\_Facility\_Maint\_Hours;

DROP 'ft facility maintenance hours qu'n;

RENAME 'FT GENERAL ADMIN HOURS'N=FT\_Gen\_Maint\_Hours;

DROP 'ft general admin hours questiona'n;

RENAME 'FT CAPITAL LABOR HOURS'N = FT\_Cap\_Lab\_Hours;

DROP 'FT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'ft total hours'n = FT\_Total\_Hours;

DROP 'FT TOTAL HOURS QUESTIONABLE'N;

RENAME 'FT VEHICLE OPERATIONS EMPLOYEE C'N=FT\_Vehicle\_Emp\_Count;

DROP 'FT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'ft vehicle maintenance employee'n = FT\_Vehicle\_Maint\_Emp\_C;

DROP 'FT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'FT FACILITY MAINTENANCE EMPLOYEE'N=FT\_Facility\_Maint\_Emp\_C;

DROP 'FT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'FT GENERAL ADMIN EMPLOYEE COUNT'N=FT\_Gen\_Admin\_Emp\_C;

DROP 'FT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'FT CAPITAL LABOR EMPLOYEE COUNT'N=FT\_Cap\_Lab\_Emp\_C;

DROP 'FT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'FT TOTAL EMPLOYEE COUNT'N=FT\_Total\_Emp\_C;

DROP 'ft total employee count question'n;

DROP 'Part Time Employees:'n;

RENAME 'PT VEHICLE OPERATIONS HOURS'N=PT\_Vehicle\_Ops\_Hours;

DROP 'PT VEHICLE OPERATIONS HOURS QUES'N;

RENAME 'PT VEHICLE MAINTENANCE HOURS'N=PT\_VEHICLE\_MAINT\_HOURS;

DROP 'PT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'PT FACILITY MAINTENANCE HOURS'N=PT\_Facility\_Maint\_Hours;

DROP 'pt facility maintenance hours qu'n;

RENAME 'PT GENERAL ADMIN HOURS'N=PT\_GEN\_ADMIN\_Hours;

DROP 'PT GENERAL ADMIN HOURS QUESTIONA'N;

RENAME 'PT CAPITAL LABOR HOURS'N=PT\_CAP\_Lab\_Hours;

DROP 'PT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'PT TOTAL HOURS'N=PT\_Total\_Hours;

DROP 'PT TOTAL HOURS QUESTIONABLE'N;

RENAME 'PT VEHICLE OPERATIONS EMPLOYEE C'N=PT\_Vehicle\_Ops\_Emp\_C;

DROP 'PT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'PT VEHICLE MAINTENANCE EMPLOYEE'N=PT\_Vehicle\_Maint\_EMP\_C;

DROP 'PT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'PT FACILITY MAINTENANCE EMPLOYEE'N=PT\_Facility\_Maint\_Emp\_C;

DROP 'PT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'PT GENERAL ADMIN EMPLOYEE COUNT'N=PT\_GEN\_Admin\_Emp\_C;

DROP 'PT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'PT CAPITAL LABOR EMPLOYEE COUNT'N=PT\_Cap\_Lab\_Emp\_C;

DROP 'PT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'PT TOTAL EMPLOYEE COUNT'N=PT\_Total\_Emp\_C;

DROP 'PT TOTAL EMPLOYEE COUNT QUESTION'N;

DROP 'Salary Expenses:'n;

RENAME 'Vehicle Operations Salaries'n=Vehicle\_Ops\_Sal;

DROP 'Vehicle Operations Salaries Ques'n;

RENAME 'Vehicle Maintenance Salaries'n=Vehicle\_Maint\_Sal;

DROP 'Vehicle Maintenance Salaries Que'n;

RENAME 'Facility Maintenance Salaries'n=Facility\_Maint\_Sal;

DROP 'Facility Maintenance Salaries Qu'n;

RENAME 'General Admin Salaries'n=GEN\_Admin\_Sal;

DROP 'General Admin Salaries Questiona'n;

RENAME 'Total Operating Salaries'n=Total\_Ops\_Sal;

DROP 'Total Operating Salaries Questio'n;

DROP'Average Hourly Wage:'n;

RENAME 'Vehicle Operations Wage'n=Vehicle\_Ops\_Wage;

DROP 'Vehicle Operations Wage Question'n;

RENAME 'Vehicle Maintenance Wage'n=Vehicle\_Maint\_Wage;

DROP 'Vehicle Maintenance Wage Questio'n;

RENAME 'Facility Maintenance Wage'n=Facility\_Maint\_Wage;

DROP 'Facility Maintenance Wage Questi'n;

DROP 'General Admin Wage Questionable'n;

RENAME 'General Admin Wage'n=Gen\_Admin\_Wage;

RENAME 'Total Operating Wage'n =Total\_Ops\_Wage;

DROP 'Total Operating Wage Questionabl'n;

DROP 'Any data questionable?'n;

DROP DC;

DROP DD;

DROP DE;

DROP DF;

DROP '1'N;

DROP 'Vehicle Operations Employee Cou1'n;

DROP 'Capital Labor Employee Count Que'n;

DROP 'Total Employee Count Questionabl'n;

DROP 'General Admin Employee Count Que'n;

DROP 'Vehicle Maintenance Employee Co1'n;

DROP 'Facility Maintenance Employee C1'n;

**Run**;

**PROC** **SORT** DATA=SASDATA.AgencyTotals2020\_TeamG;

BY Year;

**RUN**;

**PROC** **IMPORT** OUT=SASDATA.AgencyTotals2021\_TeamG

DATAFILE='\\adm.suffolk.edu\uem\STD-RedirectedFolders\faj04046\Documents\Datasets\New SAS Project\DATA\2021EMPLOYEES.XLSX'

DBMS=XLSX REPLACE;

SHEET='Agency Totals';

GETNAMES=YES;

**RUN**;

**DATA** SASDATA.AgencyTotals2021\_TeamG;

SET SASDATA.AgencyTotals2021\_TeamG;

Year = **2021**;

WHERE State = "MA";

RENAME Name=Agency;

RENAME 'Legacy NTD ID'n=Legacy\_NTD\_ID;

RENAME 'NTD ID'N=NTD\_ID;

RENAME 'Organization Type'n=Organization\_Type;

RENAME 'Reporter Type'n=Reporter\_Type;

RENAME 'Primary UZA Population'n=Primary\_UZA\_POPULATION;

RENAME 'Agency VOMS'n=Agency\_VOMS;

DROP 'All Employee Types:'n;

RENAME 'Vehicle Operations Hours'n=Vehicle\_Ops\_Hours;

DROP 'Vehicle Operations Hours Questio'n;

RENAME 'Vehicle Maintenance Hours'n=Vehicle\_Maintenance\_Hours;

DROP 'Vehicle Maintenance Hours Questi'n;

RENAME 'Facility Maintenance Hours'n=Facility\_Maintenance\_Hours;

DROP 'Facility Maintenance Hours Quest'n;

RENAME 'General Admin Hours'n=General\_Admin\_Hours;

DROP 'General Admin Hours Questionable'n;

RENAME 'Capital Labor Hours'n=Capital\_Labour\_Hours;

DROP 'Capital Labor Hours Questionable'n;

RENAME 'Total Hours'n=Total\_Hours;

DROP 'Total Hours Questionable'n;

RENAME 'Vehicle Operations Employee Coun'n=Vehicle\_Ops\_Emp\_Count;

RENAME 'Vehicle Maintenance Employee Cou'n=Vehicle\_Maint\_Emp\_Count;

RENAME 'Facility Maintenance Employee Co'n=Facility\_Maint\_Emp\_Count;

RENAME 'General Admin Employee Count'n= General\_Adm\_Emp\_Count;

RENAME 'Capital Labor Employee Count'n= Capital\_Lab\_Emp\_Count;

RENAME 'Total Employee Count'n= Total\_Emp\_Count;

DROP 'Full Time Employees:'n;

RENAME 'ft vehicle operations hours'n = FT\_Vehicle\_Ops\_Hours;

DROP 'ft vehicle operations hours ques'n;

RENAME 'FT VEHICLE MAINTENANCE HOURS'N=FT\_Vehicle\_Maint\_Hours;

DROP 'FT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'FT FACILITY MAINTENANCE HOURS'N=FT\_Facility\_Maint\_Hours;

DROP 'ft facility maintenance hours qu'n;

RENAME 'FT GENERAL ADMIN HOURS'N=FT\_Gen\_Maint\_Hours;

DROP 'ft general admin hours questiona'n;

RENAME 'FT CAPITAL LABOR HOURS'N = FT\_Cap\_Lab\_Hours;

DROP 'FT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'ft total hours'n = FT\_Total\_Hours;

DROP 'FT TOTAL HOURS QUESTIONABLE'N;

RENAME 'FT VEHICLE OPERATIONS EMPLOYEE C'N=FT\_Vehicle\_Emp\_Count;

DROP 'FT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'ft vehicle maintenance employee'n = FT\_Vehicle\_Maint\_Emp\_C;

DROP 'FT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'FT FACILITY MAINTENANCE EMPLOYEE'N=FT\_Facility\_Maint\_Emp\_C;

DROP 'FT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'FT GENERAL ADMIN EMPLOYEE COUNT'N=FT\_Gen\_Admin\_Emp\_C;

DROP 'FT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'FT CAPITAL LABOR EMPLOYEE COUNT'N=FT\_Cap\_Lab\_Emp\_C;

DROP 'FT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'FT TOTAL EMPLOYEE COUNT'N=FT\_Total\_Emp\_C;

DROP 'ft total employee count question'n;

DROP 'Part Time Employees:'n;

RENAME 'PT VEHICLE OPERATIONS HOURS'N=PT\_Vehicle\_Ops\_Hours;

DROP 'PT VEHICLE OPERATIONS HOURS QUES'N;

RENAME 'PT VEHICLE MAINTENANCE HOURS'N=PT\_VEHICLE\_MAINT\_HOURS;

DROP 'PT VEHICLE MAINTENANCE HOURS QUE'N;

RENAME 'PT FACILITY MAINTENANCE HOURS'N=PT\_Facility\_Maint\_Hours;

DROP 'pt facility maintenance hours qu'n;

RENAME 'PT GENERAL ADMIN HOURS'N=PT\_GEN\_ADMIN\_Hours;

DROP 'PT GENERAL ADMIN HOURS QUESTIONA'N;

RENAME 'PT CAPITAL LABOR HOURS'N=PT\_CAP\_Lab\_Hours;

DROP 'PT CAPITAL LABOR HOURS QUESTIONA'N;

RENAME 'PT TOTAL HOURS'N=PT\_Total\_Hours;

DROP 'PT TOTAL HOURS QUESTIONABLE'N;

RENAME 'PT VEHICLE OPERATIONS EMPLOYEE C'N=PT\_Vehicle\_Ops\_Emp\_C;

DROP 'PT VEHICLE OPERATIONS EMPLOYEE 1'N;

RENAME 'PT VEHICLE MAINTENANCE EMPLOYEE'N=PT\_Vehicle\_Maint\_EMP\_C;

DROP 'PT VEHICLE MAINTENANCE EMPLOYEE1'N;

RENAME 'PT FACILITY MAINTENANCE EMPLOYEE'N=PT\_Facility\_Maint\_Emp\_C;

DROP 'PT FACILITY MAINTENANCE EMPLOYE1'N;

RENAME 'PT GENERAL ADMIN EMPLOYEE COUNT'N=PT\_GEN\_Admin\_Emp\_C;

DROP 'PT GENERAL ADMIN EMPLOYEE COUNT1'N;

RENAME 'PT CAPITAL LABOR EMPLOYEE COUNT'N=PT\_Cap\_Lab\_Emp\_C;

DROP 'PT CAPITAL LABOR EMPLOYEE COUNT1'N;

RENAME 'PT TOTAL EMPLOYEE COUNT'N=PT\_Total\_Emp\_C;

DROP 'PT TOTAL EMPLOYEE COUNT QUESTION'N;

DROP 'Salary Expenses:'n;

RENAME 'Vehicle Operations Salaries'n=Vehicle\_Ops\_Sal;

DROP 'Vehicle Operations Salaries Ques'n;

RENAME 'Vehicle Maintenance Salaries'n=Vehicle\_Maint\_Sal;

DROP 'Vehicle Maintenance Salaries Que'n;

RENAME 'Facility Maintenance Salaries'n=Facility\_Maint\_Sal;

DROP 'Facility Maintenance Salaries Qu'n;

RENAME 'General Admin Salaries'n=GEN\_Admin\_Sal;

DROP 'General Admin Salaries Questiona'n;

RENAME 'Total Operating Salaries'n=Total\_Ops\_Sal;

DROP 'Total Operating Salaries Questio'n;

DROP'Average Hourly Wage:'n;

RENAME 'Vehicle Operations Wage'n=Vehicle\_Ops\_Wage;

DROP 'Vehicle Operations Wage Question'n;

RENAME 'Vehicle Maintenance Wage'n=Vehicle\_Maint\_Wage;

DROP 'Vehicle Maintenance Wage Questio'n;

RENAME 'Facility Maintenance Wage'n=Facility\_Maint\_Wage;

DROP 'Facility Maintenance Wage Questi'n;

DROP 'General Admin Wage Questionable'n;

RENAME 'General Admin Wage'n=Gen\_Admin\_Wage;

RENAME 'Total Operating Wage'n =Total\_Ops\_Wage;

DROP 'Total Operating Wage Questionabl'n;

DROP 'Any data questionable?'n;

DROP DD;

DROP DE;

DROP DF;

DROP DH;

DROP '1'N;

DROP '0'N;

DROP 'Vehicle Operations Employee Cou1'n;

DROP 'Capital Labor Employee Count Que'n;

DROP 'Total Employee Count Questionabl'n;

DROP 'General Admin Employee Count Que'n;

DROP 'Vehicle Maintenance Employee Co1'n;

DROP 'Facility Maintenance Employee C1'n;

**Run**;

**PROC** **SORT** DATA=SASDATA.AgencyTotals2021\_TeamG;

BY Year;

**RUN**;

**DATA** SASDATA.MasterAgencyTotals\_TeamG;

MERGE SASDATA.AgencyTotals2017\_TeamG

SASDATA.AgencyTotals2018\_TeamG SASDATA.AgencyTotals2019\_TeamG

SASDATA.AgencyTotals2020\_TeamG SASDATA.AgencyTotals2021\_TeamG;

BY GROUPFORMAT Year;

**RUN**;

ODS GRAPHICS ON;

**PROC** **REG** DATA=SASDATA.MasterAgencyTotals\_TeamG;

MODEL Total\_Ops\_Sal = FT\_Vehicle\_Ops\_Hours

FT\_Vehicle\_Maint\_Hours

FT\_Facility\_Maint\_Hours

FT\_Gen\_Maint\_Hours

FT\_Cap\_Lab\_Hours;

**RUN**;

ODS GRAPHICS OFF;

ODS GRAPHICS ON;

**PROC** **REG** DATA=SASDATA.MasterAgencyTotals\_TeamG;

MODEL Total\_Emp\_Count = Vehicle\_Ops\_Sal

Vehicle\_Maint\_Sal

Facility\_Maint\_Sal

GEN\_Admin\_Sal;

**RUN**;

ODS GRAPHICS OFF;

**DATA** SASDATA.MasterAT\_NewModel\_TeamG;

SET SASDATA.MasterAgencyTotals\_TeamG;

Total\_Emp\_C\_Hours=Total\_Emp\_Count\*Total\_Hours;

Vehicle\_Ops\_C\_Hours=Vehicle\_Ops\_Hours\*Vehicle\_Ops\_Emp\_Count;

Vehicle\_Maint\_C\_Hours=Vehicle\_Maintenance\_Hours\*Vehicle\_Maint\_Emp\_Count;

Facility\_Maintenance\_C\_Hours=Facility\_Maint\_Emp\_Count\*Facility\_Maintenance\_Hours;

General\_Admin\_C\_Hours=General\_Admin\_Hours\*General\_Adm\_Emp\_Count;

Capital\_Labour\_C\_Hours=Capital\_Labour\_Hours\*Capital\_Lab\_Emp\_Count;

**Run**;

ODS GRAPHICS ON;

**PROC** **REG** DATA=SASDATA.MasterAT\_NewModel\_TeamG;

MODEL Total\_Emp\_C\_Hours = Vehicle\_Ops\_C\_Hours

Vehicle\_Maint\_C\_Hours

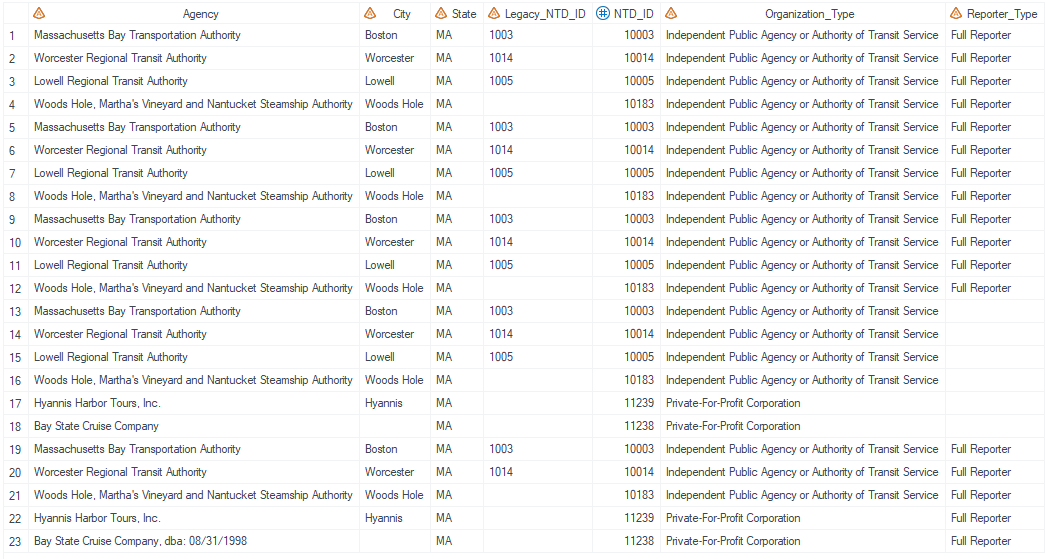
Facility\_Maintenance\_C\_Hours

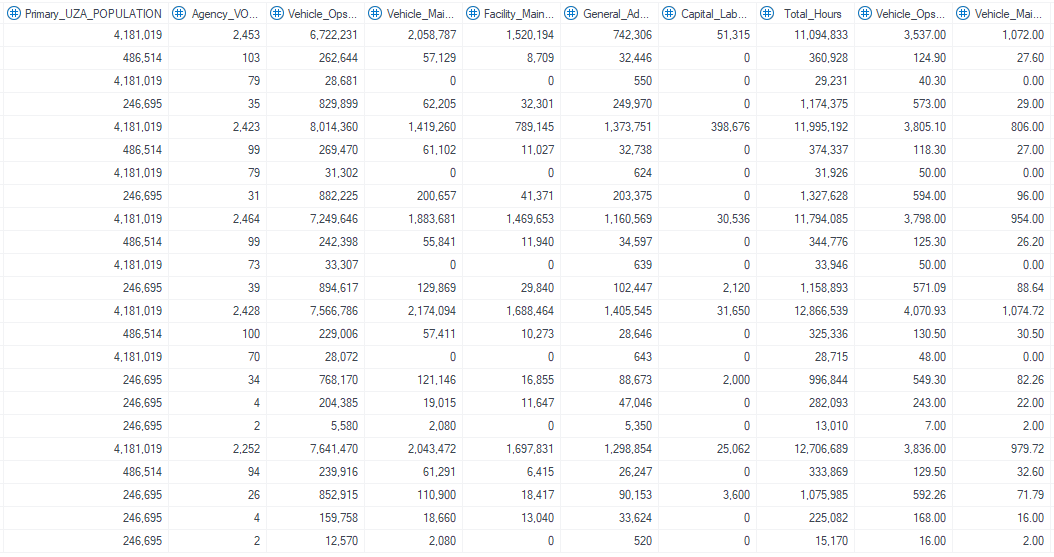
General\_Admin\_C\_Hours

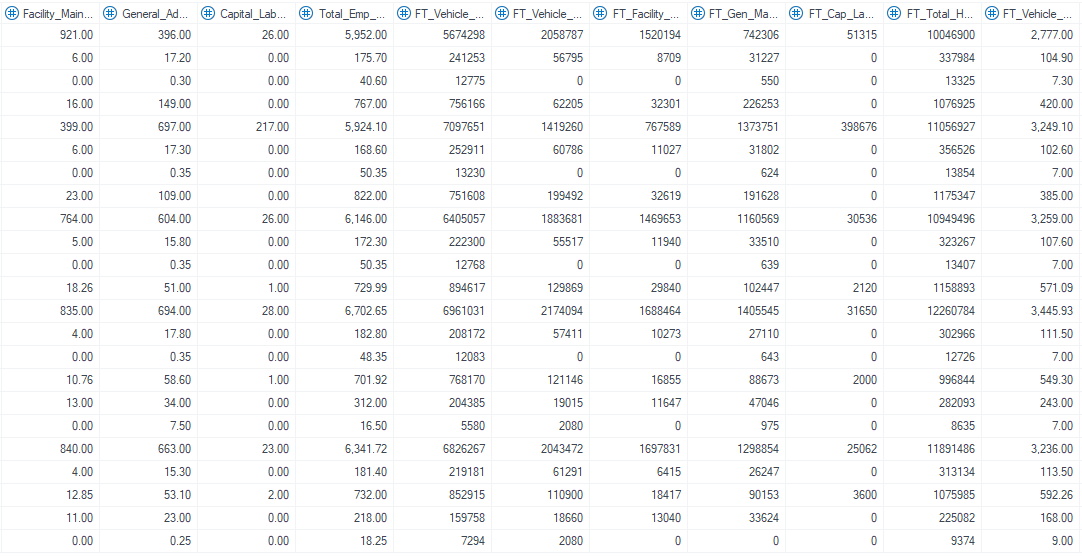
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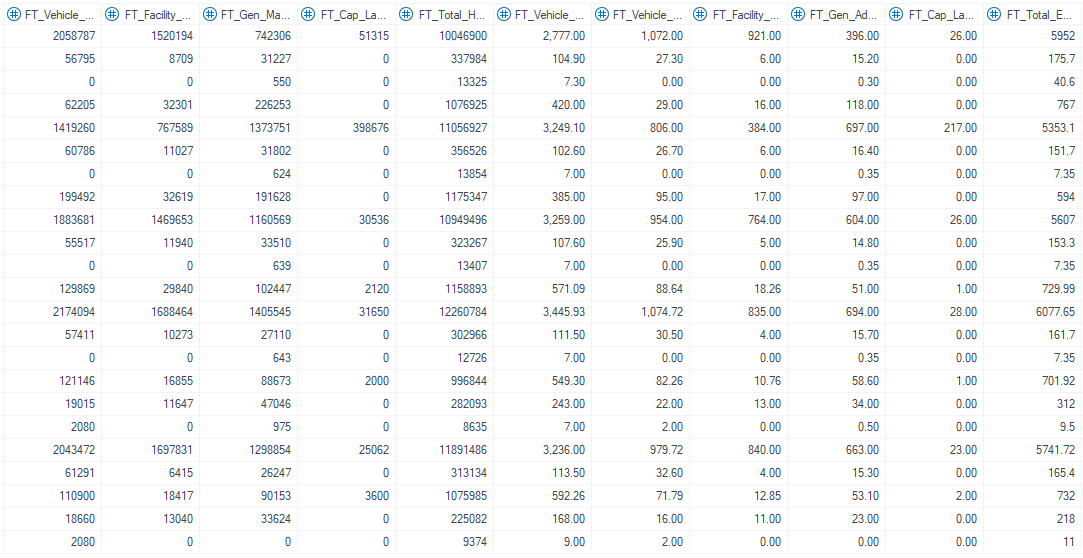
**RUN**;

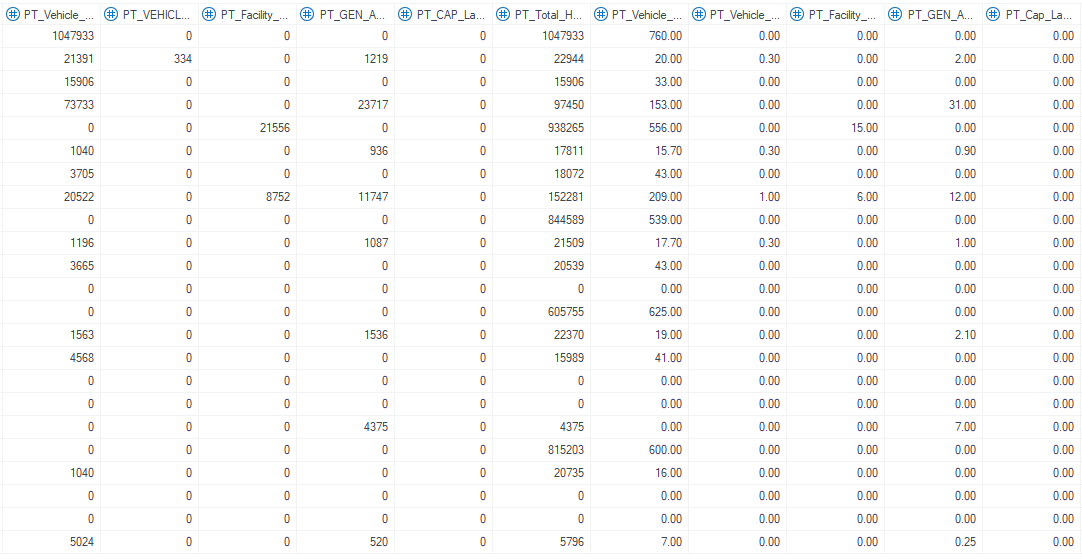
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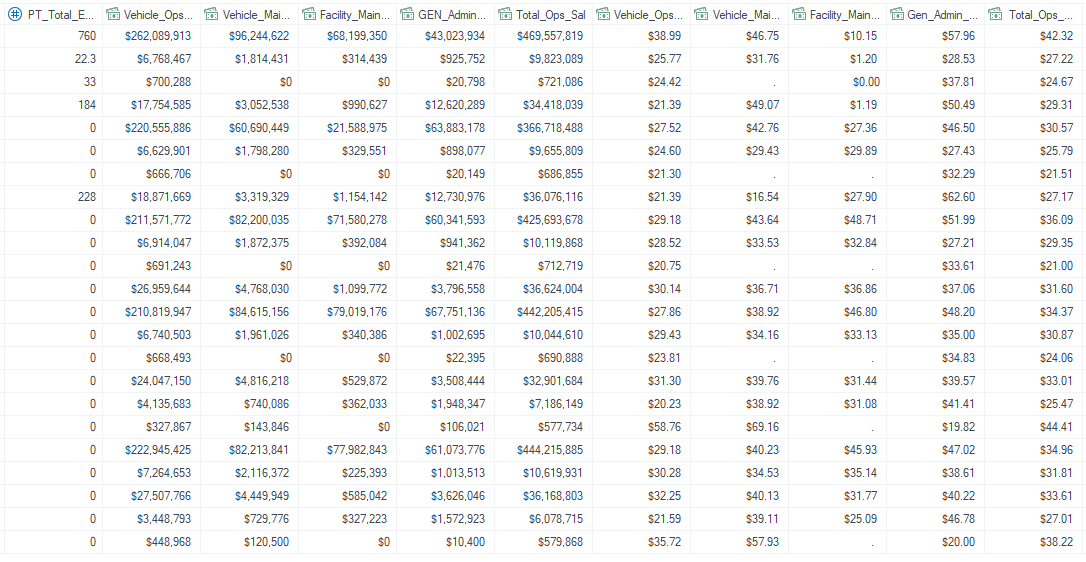
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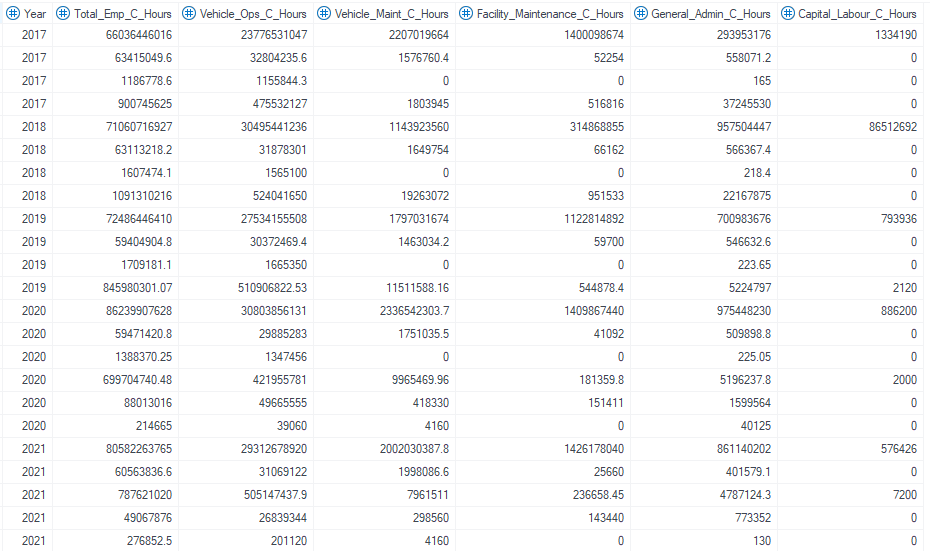
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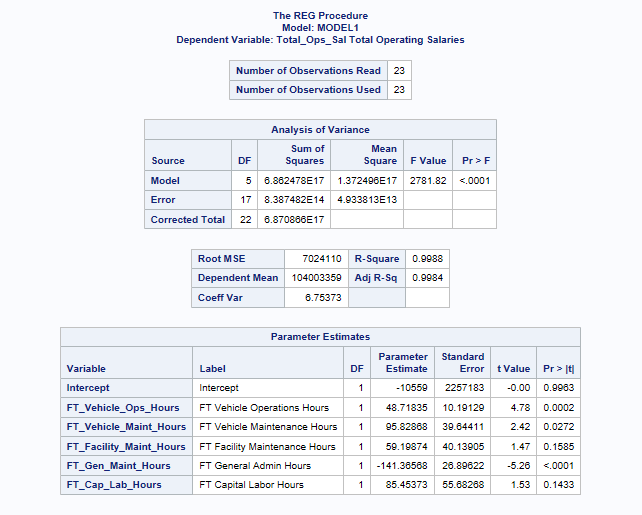
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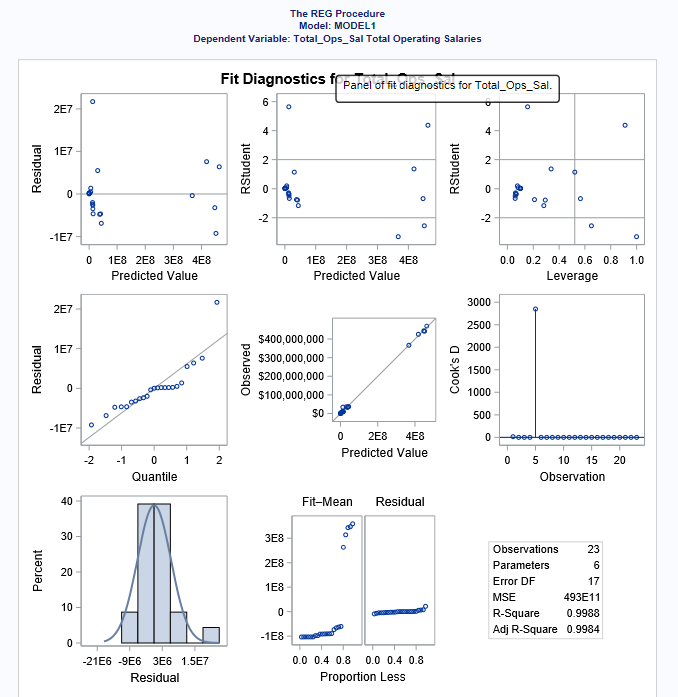
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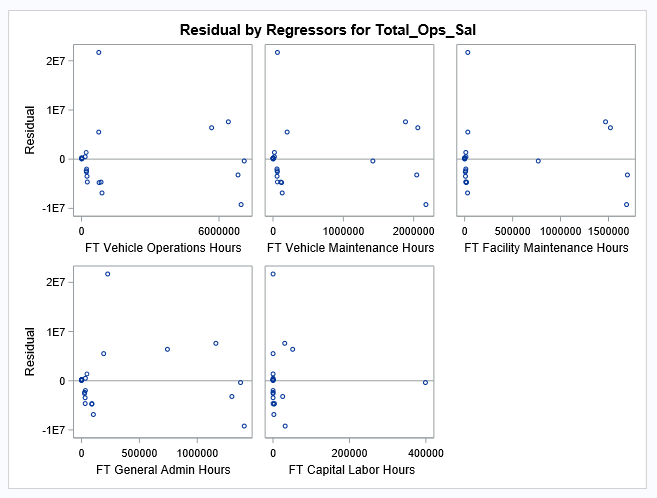
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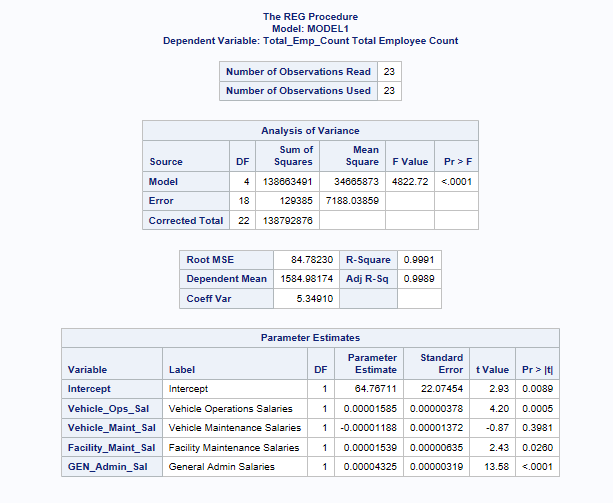
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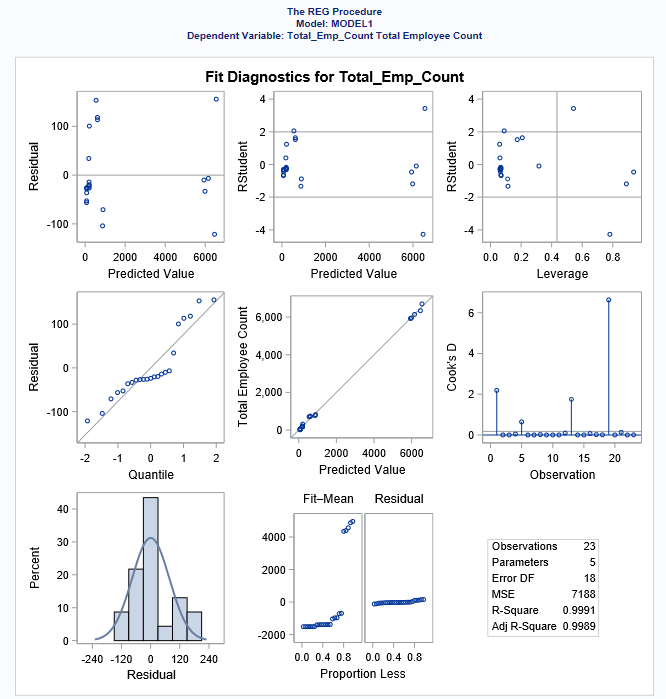
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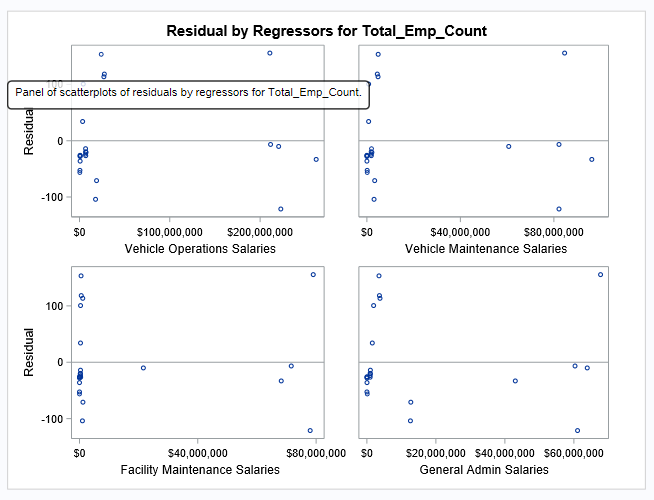
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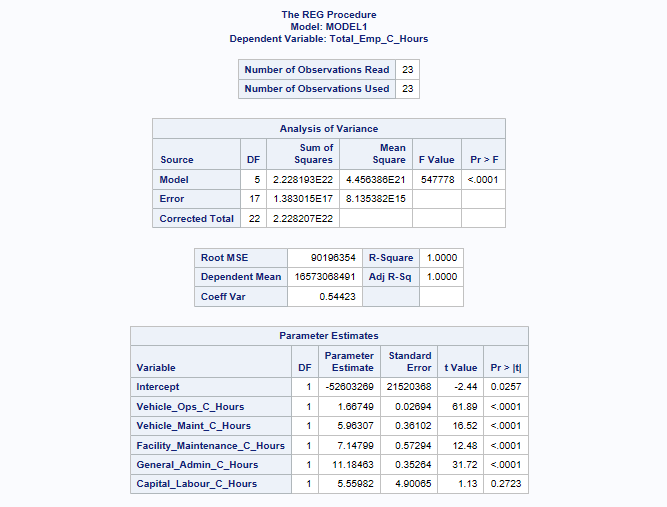
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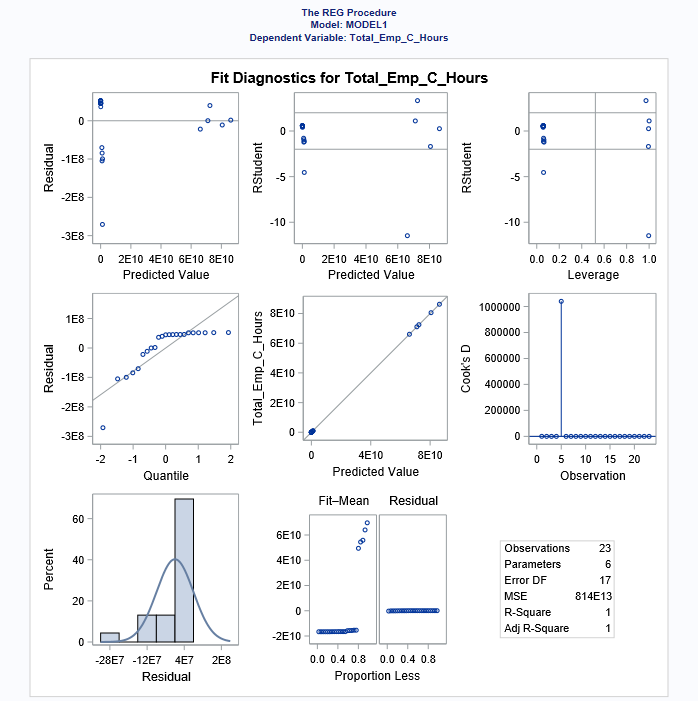
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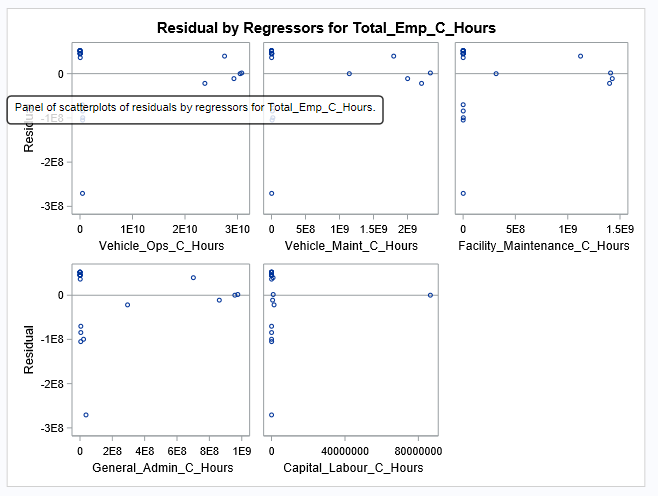
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