```
/* */
/*Labeling of all the variables*/
proc format;
    value Resolution
        1 = 'Resolved'
        2 = 'Escalated'
        3 = 'Disconnect';
    value Case Type
        1 = 'Account Related'
        2 = 'Affiliate Related'
        3 = 'Disconnect'
        4 = 'Billing'
        5 = 'Cancellations and Refunds'
        6 = 'Miscellaneous'
        7 = 'Programming'
        8 = 'Technical';
    value Contact_Type
        1 = 'Email'
        2 = 'Phone';
run;
/* seperate dataset for esclations */
data esconly;
set mynewlib.mis480cs;
if Resolution = 1 then delete;
if Resolution = 3 then delete;
run;
/* seperate dataset for Tier 1 resolved*/
data resonly;
set mynewlib.mis480cs;
if Resolution = 2 then delete;
if Resolution = 3 then delete;
run;
/* Summary stats*/
proc means data=MYNEWLIB.MIS480CS chartype mean std min max n vardef=df;
    format Resolution Resolution. Case_Type Case_Type. Contact_Type Contact_Type.;
    var Resolution;
    class Case_Type Contact_Type;
run;
/* histograms of case data */
proc univariate data=MYNEWLIB.MIS480CS vardef=df noprint;
format Resolution Resolution. Case Type Case Type. Contact Type Contact Type.;
    var Resolution;
    class Case Type Contact Type;
    histogram Resolution / barlabel=percent endpoints=(1 to 4 by 1);
run;
/* Pie Chart for all case types */
title 'All Resolutions';
proc sgpie data=mynewlib.mis480cs;
format Case_Type Case_Type.;
pie Case_Type / DATALABELLOC=inside DATALABELDISPLAY=(CATEGORY PERCENT) dataskin=pressed;
run;
/* Pie Chart for cases resolved by Tier 1 */
title 'Handled by Tier 1';
proc sgpie data=work.resonly;
format Case Type Case Type.;
pie Case Type / DATALABELLOC=inside DATALABELDISPLAY=(CATEGORY PERCENT) dataskin=pressed;
/* Pie Chart for cases escalated */
title 'Escalated';
proc sgpie data=work.esconly;
```

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```
format Case Type Case Type.;
pie Case_Type / DATALABELLOC=inside DATALABELDISPLAY=(CATEGORY PERCENT) dataskin=pressed;
run;
title "Precent of Case Types and Escalation Rates";
proc sgplot data=MYNEWLIB.MIS480CS;
   format Resolution Resolution. Case_Type Case_Type. Contact_Type Contact_Type.;
   xaxis label='Case Type';
   vbar Case_Type / group=Resolution groupdisplay=stack datalabel stat=percent SEGLABEL dataskin=pressed;
   yaxis grid;
run;
title "Precent of Case Types and Escalation Rates";
proc sgplot data=MYNEWLIB.MIS480CS;
   format Resolution Resolution. Case Type Case Type. Contact Type Contact Type.;
   xaxis label='Contact Type';
   vbar Contact_Type / group=Resolution groupdisplay=stack datalabel stat=percent SEGLABEL dataskin=pressed;
   yaxis grid;
run;
```