**Summary Statistics**

ods noproctitle;  
ods graphics / imagemap=on;  
  
proc means data=WORK.IMPORT chartype mean min max n nmiss vardef=df;  
 var Ridership\_Total\_All Ridership\_Total\_Bus Ridership\_Total\_Rail   
 Precipitation\_Inches Snowfall\_Inches;  
run;

**Histogram for Ridership\_Total\_Bus Variable**

ods graphics / reset width=6.4in height=4.8in imagemap;  
  
proc sgplot data=WORK.IMPORT;  
 histogram Ridership\_Total\_Bus /;  
 density Ridership\_Total\_Bus;  
 yaxis grid;  
 keylegend "DENSITY" / location=inside position=topright across=1;  
run;  
  
ods graphics / reset;

**Histogram for Ridership\_Total\_Rail Variable**

ods graphics / reset width=6.4in height=4.8in imagemap;  
  
proc sgplot data=WORK.IMPORT;  
 histogram Ridership\_Total\_Rail /;  
 density Ridership\_Total\_Rail;  
 yaxis grid;  
run;  
  
ods graphics / reset;

**Histogram for Precipitation\_Inches Variable**

ods graphics / reset width=6.4in height=4.8in imagemap;  
  
proc sgplot data=WORK.IMPORT;  
 histogram Precipitation\_Inches /;  
 density Precipitation\_Inches;  
 xaxis min=0;  
 yaxis grid;  
run;  
  
ods graphics / reset;

**Histogram for Snowfall\_Inches Variable**

ods graphics / reset width=6.4in height=4.8in imagemap;  
  
proc sgplot data=WORK.IMPORT;  
 histogram Snowfall\_Inches /;  
 density Snowfall\_Inches;  
 xaxis min=0;  
 yaxis grid;  
run;  
  
ods graphics / reset;

**RQ1: Scatter Plot of Correlation between Precipitation\_Inches and Ridership\_Total\_All**

ods noproctitle;  
ods graphics / imagemap=on;  
  
proc corr data=WORK.IMPORT pearson nosimple   
 plots(maxpoints=none)=scatter(ellipse=none nvar=2 nwith=2);  
 var Precipitation\_Inches;  
 with Ridership\_Total\_All;  
run;

**RQ2: Scatter Plot of Correlation between Precipitation\_Inches and Ridership\_Total\_Bus**

ods noproctitle;  
ods graphics / imagemap=on;  
  
proc corr data=WORK.IMPORT pearson nosimple   
 plots(maxpoints=none)=scatter(ellipse=none nvar=2 nwith=2);  
 var Precipitation\_Inches;  
 with Ridership\_Total\_Bus;  
run;

**RQ3: Scatter Plot of Correlation between Precipitation\_Inches and Ridership\_Total\_Rail**

ods noproctitle;  
ods graphics / imagemap=on;  
  
proc corr data=WORK.IMPORT pearson nosimple   
 plots(maxpoints=none)=scatter(ellipse=none nvar=2 nwith=2);  
 var Precipitation\_Inches;  
 with Ridership\_Total\_Rail;  
run;

**RQ4: Scatter Plot of Correlation between Snowfall\_Inches and Ridership\_Total\_All**

ods noproctitle;  
ods graphics / imagemap=on;  
  
proc corr data=WORK.IMPORT pearson nosimple   
 plots(maxpoints=none)=scatter(ellipse=none nvar=2 nwith=2);  
 var Snowfall\_Inches;  
 with Ridership\_Total\_All;  
run;

**RQ5: Scatter Plot of Correlation between Snowfall\_Inches and Ridership\_Total\_Bus**

ods noproctitle;  
ods graphics / imagemap=on;  
  
proc corr data=WORK.IMPORT pearson nosimple   
 plots(maxpoints=none)=scatter(ellipse=none nvar=2 nwith=2);  
 var Snowfall\_Inches;  
 with Ridership\_Total\_Bus;  
run;

**RQ6: Scatter Plot of Correlation between Snowfall\_Inches and Ridership\_Total\_Rail**

ods noproctitle;  
ods graphics / imagemap=on;  
  
proc corr data=WORK.IMPORT pearson nosimple   
 plots(maxpoints=none)=scatter(ellipse=none nvar=2 nwith=2);  
 var Snowfall\_Inches;  
 with Ridership\_Total\_Rail;  
run;

### end of code ###