Impact of Weather on Ridership of the Chicago Transit Authority

Summary Statistics

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;
```

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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

RQ2: Scatter Plot of Correlation between Precipitation Inches and Ridership Total Bus

RQ3: Scatter Plot of Correlation between Precipitation_Inches and Ridership_Total_Rail

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RQ4: Scatter Plot of Correlation between Snowfall_Inches and Ridership_Total_All

RQ5: Scatter Plot of Correlation between Snowfall_Inches and Ridership_Total_Bus

RQ6: Scatter Plot of Correlation between Snowfall Inches and Ridership Total Rail

end of code