Insight 1: The day of the week with the greatest number of cancelled flights.

Day of the week with the greatest
Flight Cancellation in USA domestic
in 2015
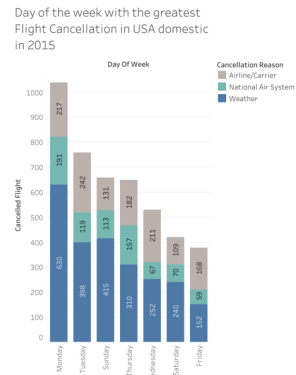
Summary
The bar chart above shows the days of the week with the total number of flights cancellation associated with each day of the week. It also shows details about the reasons for the cancellation with Monday having the highest number of cancellations 630 flights cancelled because of weather, 191 flights because of National Air System and 217 flights because of airline.
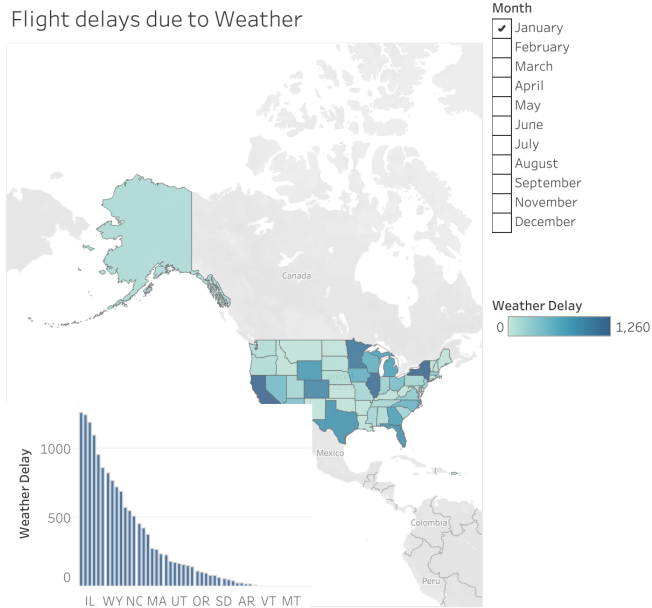
Design
Used a bar chart because it is easier to see the comparison using the length of the bars and the different reasons for cancellation can be seen in detail.

Resources

Field Code Changed

Insight 2: Which State had the most flight delays due to weather in the month of January?

Flight delays due to Weather

Month
- ✔ January
- February
- March
- April
- May
- June
- July
- August
- September
- November
- December

Weather Delay

0 ——————— 1,260

Link
https://public.tableau.com/app/profile/chukwudalu.nwazojie/viz/FlightsdelayduetoWeatherint
hemonthofJanuary/Dashboard2?publish=yes

Summary
The dashboard shows the sum of weather delays for each state and was filtered for the month of January, California (CA) shows the greatest number of delayed flights with 1,260 flights delayed followed by New York (NY) with 1,245 delayed number of flights.

Design
The dashboard was used to display two charts, where the bar charts show the values depending on the length of the bars and the globe depicts the most values depending on colour intensity.

Insight 3: The relationship between the distance travelled and departure delays by the airlines

Departure delay vs Distance

Link
https://public.tableau.com/app/profile/chukwudalu.nwazojie/viz/DeparturedelayvsDistance/DeparturedelayvsDistance?publish=yes
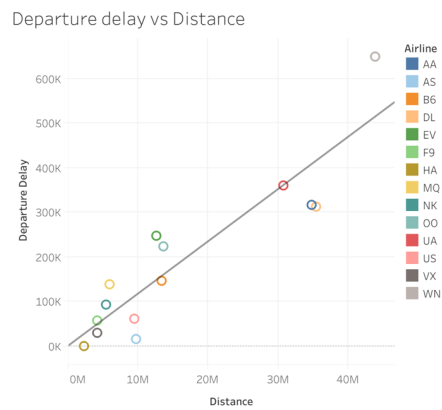
Summary
The plot shows a strong, positive relationship with a correlation coefficient value of 0.83 between the distance travelled and the departure delays. The departure delays increased as the distance increased for the different airlines.

Design
The scatter plot was used to help determine the relationship between the travel distance by the airlines and the departure delays.

Resources
https://www.kaggle.com/usdot/flight-delays/data?select=airlines.csv