Data Viz project - Flights

Insight 1

Link:
https://public.tableau.com/views/DataVizproject-Flights-dashboardforcancelledflights/Dashboard-Reasonsforcanceledflights?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Summary:
This dashboard shows the number and reasons for canceled flights per state.
We can notice from this plot that Texas has the greatest number of canceled flights with 668 flights, then Illinois with 563 canceled flights.
Also, we can notice that 422 flights out of the 668 flights were canceled due to the weather.

Design:
This dashboard consists of two plots, the first one is a Map showing the states and the count of canceled flights for each state, and the second plot is a bar plot showing the reason for cancellation per each state.

Resources: N/A

Insight 2

Link:
https://public.tableau.com/views/DataVizproject-Flights-mostfrequentdelaytime/mostfrequentdelaytime?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Summary:
This plot shows the most frequent delay time.
We can notice that (-10, -20, and 0) are the most frequent delay times which is good in general.

Design:
A histogram plot is chosen for this plot and consists of one color to focus on the purpose of the graph.

Resources:
https://help.tableau.com/current/pro/desktop/en-us/calculations_bins.htm

Insight 3

Link:
https://public.tableau.com/views/DataVizproject-Flights-Avg_delaytimepereachairline/delaytimepereachairline?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Summary:
This plot shows the average delay time per airline.
We can notice in this plot that the airline 'Spirit Air Lines' has the largest average arrival delay time, which is 15.73, although it has a number of flights of 5467, which is too much compared to other Airlines such as 'American Airlines Inc.' airline which has an average arrival delay time of 4.23 with number of flights= 33368

Design:
A horizontal bar graph is chosen for this plot. A change happened here after feedback to change the colors to be able to differentiate between the values above and below zero value.

Resources: N/A

Insight 4

Link:
https://public.tableau.com/views/DataVizproject-Flights-Avg_arrivaldelayovertime/Avgarrivaldelayovertime?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Summary:
This plot shows the average delay time over months per airline.
In this plot we can notice that for example, California has the largest average arrival delay time for all airlines in December and July.

Design:
A line chart is chosen for this plot as the best type of graph to show the time effect, a change happened here after feedback to add a filter of state and add a tooltip for the number of flights.
Second feedback here from the Udacity team is to decrease the number of categories included in the plot to be easy to read and understand so after modification we can filter with airlines or states to figure out what is going on for each state over each month.

Resources: N/A