Project: Build Data Dashboards

Dataset: Flight Delays and Cancellations

Q1: Which States is the busiest and which one has the most departure delayed time?

Insight 1:

https://public.tableau.com/app/profile/ibrahim.mohameed/viz/UdacityprojectDashboard1/Dashboard1?publish=yes

- Looking at the map, we can find that California (CA) has the highest number of flights occurring at its airports (Departing and arriving) with total of 67,026 flight which mean it is the busiest state followed by Texas (TX) with 64,824, while West Virginia state has the lowest number of flights with 222 flights in total.

- And in the Bar Chart, we can find that this is causing Texas and California to be the states with most

delayed flights with sum total of 349,405 minutes and 308,406 minutes respectively.

- During the first half of the year Texas was on top of the list but in the second half California had more delays, using the filter we can see the amount of flight for each state by range of months.

Q2: Which airports in the top states have more delays than the others?

Insight 2:

https://public.tableau.com/app/profile/ibrahim.mohamed/viz/UdacityprojectDelaytimebyairport/Sheet3?publish=yes

- In this bar chart, we decided to filter by state to see which airport in the top 2 busiest states has the most departure and arrival delays time, and as we can see that "Dallas/Fort Worth International Airport" in Texas is on top followed by "Los Angeles International Airport" in California.

Q3: Which month has the most delays in the top 2 airports because of human intervene?

Insight 3:

https://public.tableau.com/app/profile/ibrahim.mohamed/viz/UdacityprojectDelaytimecausebyhumanintervene/Sheet4?publish=yes

From this Line Plot, we have the delays that caused by human intervene which are (Airline and security delays), we have the top 2 airports in a comparison for both causes mentioned previously.

- For "Dallas/Fort Worth International Airport" in Taxes we can clearly see the peak in delay time during month of June with 7,097 minutes, while for "Los Angeles International Airport" in California we can see a peak in delay time during month of August with 4,399 minutes.
- We can also see an increase in delay during the end of the year which could be because of the holiday season.

The colors chosen in the charts and plots are to differentiate which state does the airport belong to as seen on the right side (Blue for Texas, Brown for California) and the colors are chosen this way to be suitable for people who suffer from color blindness.