Project 4 Visualization Insights

Question 1:

Which Airport has the highest number of departure delay? In what month of the year does the departure delay happen the most at the Airport? And what factor contributed the most to the delay?

Link to Visualization: https://public.tableau.com/app/profile/obinna.jude/viz/Storyinsight1/Story1

Insights:

From the Story, the findings showed that in 2015 the Hartsfield-Jackson Atlanta International Airport (ATL) had the highest number of departure delay with a total count of 6,790 departure delays. Most of the delays happened in the month of June with a total count of 772 departure delays, this accounted for the 11% of the departure delays for the year. The most contributing factor for the departure delay can be attributed to Airline delay which accounted for 26.3% of the departure delays for the month.

Design: For the departure delay, I filtered out the negative delays and zero delays values for the total delay count as the negative values indicate an early departure of the flights and the positive values indicate that there was a delay in the departure of the flight. While the zero values indicated no delay.

Resource: https://medium.com/@banikanusheela/flight-departure-delay-prediction-417240a72ea4 used to understand what the negative departure delay values stands for.

Question 2:

Which month of the year has the highest overall number of departure delay?

Link to Visualization:

https://public.tableau.com/views/Insight2_16496504847360/WhichMonthoftheYearhasthehighestNumberofDeparturedelay_1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Insights: From the area chart, the month of June has the highest number of departure delay with a total of 11,089 delays in the year 2015.

Question 3:

Which Airline has the worst delay?

Link to Visualization:

https://public.tableau.com/views/Insight3_16496596491990/Dashboard1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Insights: As shown on the dashboard, the Airline with the worst delay is the Southwest Airlines Co. (WN) with a total count of 7,089 delays. The Airline also has the largest count of Late Aircraft delay of 8,127, followed by total count of 4,842 Air Systems Delays. The least contributor to the WN airline delays is the Security delays with a total count of 34 for the year.

Design: I used blue to help for the color blind and used the automatic palette for the Weather delay visualization as it has more assignment than the color-blind palettes.