DASHBOARDS PROJECT

Sarah Mitchell October 2022

1. WEEKDAY DELAYS

   A. LINK

   - Story #1
   - LINK

   B. SUMMARY

   - In the dashboard I wanted to compare the departure delays and the arrival delays on the days of the week. Overall you can see there are far more departure delays than arrival delays. If you look at Sunday then you can see for the airline code: WN the departure delays are 140,895 and arrival delays are decreased to 78,041. Even if you take a look at the airline code: AA on Thursday the departure delays are 77,613 and arrival delays are decreased to 42,979. Therefore just because the planes may be delayed in departure does not mean you will always have a delayed arrival when you are looking at the day of the week.

   C. DESIGN

   - I choose to look at the days of the week for both charts with one chart displaying the arrival delays and the other displaying the departure delays.
   - This story is interactive so you may focus on one airline at a time to be able to compare to two easier.
   - I also used the colors for the airlines to make the charts more readable.

   D. RESOURCES

   - None

2.Arrivals and Cancellations

A. LINK
   - Story #2
   - LINK

B. SUMMARY
   - In this story I wanted to look athe the number of scheduled arrivals each airline had, how many cancellations did they have. As you can see the cancellations are at a minimum compared to the number of scheduled arrivals each airline has. The largest number of cancellations was with airline code MQ of 203 cancellations for the month of February. Although MQ did have 2,097,841 scheduled arrivals for the month of February also. It appears that February for the month overall twelve months has the highest number of cancellations over most of the airlines.

C. DESIGN
   - I used the highlight tables for this dashboard, to show the difference between the numbers throughout the month.
   - The right side legends make it easy to use. You can immediately see the lighter colors are the lower numbers while the darker colors are the higher numbers.
   - The left side legends are there to narrow down the range of numbers which you are more likely to be researching. This will simplify the graphs so you will only see what you are looking for.

D. RESOURCES
   - None

3. Cancellation Trends
    A. LINK
        - Story #3
        - LINK

    B. SUMMARY
        - In this story I am comparing the number of overall cancellations for each airline to the distances of the flight. As you can see comparing the two, the longer the flight is the more likely there will be cancellations for that flight. Such as airline code: WN with the largest number of cancellations at 79,291,385 and the distance sum of the distances for that WN being 43,873,973 is much larger numbers for both calculations compared to the lowest number of cancellations at 4,047.151 and the sum of distance being 4,226,099 at the airline VX. You will also see flights that were just delayed for each airline and the reason they were delayed. The simple departure delay was the most common reason and the security delays were at a minimum overall.

    C. DESIGN
        - I used a bar chart combined with a line chart to compare the sum cancellations of flights to the sum distances of flights for each airline. I wanted to show that the decrease in distance of the flights caused a decrease in cancellations for the flights.
        - The line chart compares the reasons for delays for each airline. I used the colors to make the chart more readable
        - Both of these charts are interactive with each other. Doing so you can easily see the trend in both delays and cancellations.

    D. RESOURCES
        - None