Project 4:

Build Data Worksheet and Dashboards

Flight Delays and Cancellations

<u>Visualization 1:</u>

AVG Weather Delay per State, Airport, Country**?**

<u>Tableau Link:</u>

https://public.tableau.com/shared/34YXMYS7K?:display_count=n&:origin=viz_share_link

<u>Summary</u>

We can see from the Worksheet, taking into Average number of whether of the US, from the map above we found the Bert Moony Airport in Billings state having the highest average whether is 20.1 and Abilene Regional Airport in Abilene is the second highest average whether of 19.1, while the Chattanooga metropolitan Airport in Nashville state is the least is 0.5.

<u>Design:</u>

I have chosen Symbol map chart because it`s ideal choice for visualizing data. The comparison is based on **airports** across **multiple states** which need to be gathered in one place and to make comparison easier for the reader.

<u>Resources:</u>

N/A

<u>Visualization 2</u>

Average Arrival Delay in Lehigh Valley International Airport per Month.

<u>Tableau Link:</u>

https://public.tableau.com/views/worksheetAVGArrivalDelay/AVGArrivalDelayABE?:languag e=en-US&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

<u>Summary:</u>

We can see from the Worksheet, taking to Average Arrival Delay per month of the Airport of the US, from source Lehigh Valley International airport to destination. From the diagram above we find that the destination Chicago O'Hare International Airport in September has recorded the highest delay by 184, While the same destination airport in June has recorded delay by 17.

<u>Design:</u>

I chose the Horizontal bar diagram to simplify the process of identifying comparative differences between destination airports based on months. The Horizontal taller bars effectively represent the data and indicate larger values, making it easier to distinguish between higher and lower categories in a clear and organized manner.

<u>Resources:</u>

N/A

Visualization 3

1. Average Airline Delay in Lehigh Valley International Airport per Month

2. Origin and Destination Visualization of Avg Airline Delay > 30

Link:

https://public.tableau.com/views/worksheetAVGArrivalDelay/FlightDelaysandCancellations?:language=en-US&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

Summary:

From the dashboard, we can observe the average airline delay at Lehigh Valley International Airport in the US on a monthly basis. The treemap above highlights delays occurring between Lehigh Valley International Airport as the origin and destination each month. The highest delay recorded was 124 in January, observed between Chicago and Allentown. In contrast, the lowest delay was 17, recorded in Allentown and Atlanta during December.

From dashboard also, we can observe the Avg Airline Delay greater than 30, from the symbol map above highlights delays occurring above 30 between all origin and destination airports. The highest delay from Aberdeen Regional Airport to Minneapolis-Saint Paul International Airport is 68.

Design:

I selected the treemap because it`s ideal choice for visualizing large data. It is easier to identify the higher and lower in a proper way.

Resources:

N/A