Build Data Dashboards

Project Submission

Visualization 1: Sheet

Summary: This Sheet visualization shows the sum of cancelled flights by state with Airline filter.

Link:

https://public.tableau.com/profile/vijay.chandrasekran#!/vizhome/one_15639456111900/Sheet3?publish=yes

Design: Choropleth Maps was used to display geographical areas that are colored or shaded in relation to a data variable. In this case, state Geographical area was used to display colors/shades based on Sum of Cancellations data variable.

A bar chart can also be used to display such data, but Choropleth Maps is more visually appealing to the viewer as this data deals with geographical areas.

Insight:

1. TX has the highest number of Cancelled flights with a sum of 661. American Eagle contributed to most number of cancellation in TX with a sum of 165
2. IL has the second highest number of Cancelled flights with a sum of 537.
3. WV has the least number of cancellations with a sum of 1.

Resources: NA

Visualization 2: Sheet

Summary: This Sheet visualization shows the sum of cancelled flights by city with Airline filter.

Link:

https://public.tableau.com/profile/vijay.chandrasekran#!/vizhome/city_15640037163030/Sheet6?publish=yes

Design: BAR chart was used to show discrete, numerical comparisons across categories. In this case, City category is compared against the numerical value of Sum of Cancelled flights. A Map chart couldn't be used here as there are too many cities to displayed which will clutter the chart.

Insight:

1. Chicago has the highest number of Cancelled flights with a sum of 512.
2. New York has second highest number of Cancelled flights with a sum of 325.
3. American Eagle contributed to highest number of cancellations in Chicago with a sum of 129.

Resources: NA

Visualization 3: Dashboard

Summary: This dashboard visualization shows the sum of cancelled flights by month and day of the week with Airline filter.

https://public.tableau.com/profile/vijay.chandrasekran#!/vizhome/Dash2_15640032521480/Dashboard2?publish=yes

Design: Line Graphs were used to display quantitative values over a continuous interval or time period. In this case, Sum of cancellations quantitative value was used to view the trend over "Month of the Year" and "Day of the week" time periods. A bar chart cannot be used here as there are no categorical values to compare with.

Month Calculated Field using Formula

IIF([Month]=1, "Jan",IIF([Month]=2, "Feb",IIF([Month]=3, "Mar",IIF([Month]=4, "Apr",IIF([Month]=5, "May",IIF([Month]=6, "Jun",IIF([Month]=7, "Jul",IIF([Month]=8, "Aug",IIF([Month]=9, "Sep",IIF([Month]=10, "Oct",IIF([Month]=11, "Nov",IIF([Month]=12, "Dec","")))))))))))

Insight for month:

1. Feb has the highest number of cancellations with a sum of 1058.
2. Sep has the least number of cancellations with a sum of 108.
3. American Eagle contributed to highest number of cancellations in Feb with a sum of 203.

Insight for day of the week:

1. 1st day of the week has the highest number of cancellations with a sum of 1038.
2. 5th day of the week has the least number of cancellations with a sum of 379.
3. American Eagle contributed to highest number of cancellations on 1st day of the week with a sum of 190.

Resources: NA

Visualization 4: Story

Summary: This story visualization shows the data covered in all of previous slides linked as a story.

https://public.tableau.com/profile/vijay.chandrasekran#!/vizhome/AirportCancel/Story1?publish=yes