Telling Stories with Data

Flight Delays and Cancellations

Insight 1

https://public.tableau.com/app/profile/osato.precious.gift/viz/flightcancellationstate_16536864366830/State?publish=yes

Summary:
This visualization shows states with the total number of canceled flights. We can see from the map that Texas (668) has the highest number of canceled flights followed by Illinois (563) and California (408) Montana and West Virginia had the lowest number (3) of canceled flights.

Design:
Map is a great view to show states with canceled flight. I also made use of color marks to help differentiate state with the highest and lowest number of cancelled flight.

Resource:
https://www.youtube.com/watch?v=9xqHA732LMA&feature=youtu.be

Insight 2

https://public.tableau.com/app/profile/osato.precious.gift/viz/flightcancellationreason/cancellationreason?publish=yes

Summary:
We can see from the chart that 'Weather' was the top reason for flight cancellation followed by 'Airline/Carrier' then National Air System'. A total of 4433 flights were canceled. When we hover over the chart, we can see the number of times a flight was canceled.

Design:
Pie chart was use to show dimension with limited number of categories (different cancellation reason). I also used consistent color to make the visualization more engaging.

Insight 3

https://public.tableau.com/app/profile/osato.precious.gift/viz/FCstory/Dashboard1?publish=yes

Summary:

This dashboard shows the airline with the most cancellations, the month, and also the days of the week with the most cancellations.

From the dashboard, it is seen that Southwest Airlines had the highest number of canceled flights and the major reasons were weather and airline respectively.
Hawaiian Airlines Inc. had the fewest number of cancellations due to Airline/Carrier only.
We can also see that the most cancellations happened in February with a total of 1058 and weather is mostly the reason for cancellation. On the other hand, September had the lowest cancellations, and Airline/Carrier was the major reason with a little difference. We can also see that most flight cancellations happened on Sunday and the lowest number of flight cancellations happened on Thursday.
Day of the week and cancellation reasons were added as filters to get more analysis.

Design:

- Bar was used for the airline visualization the reason for cancellation was added as a mark to show the major reason why a flight was canceled for a particular airline.
- Dual combination was used for the month visualization
- Tree map was use for day of week visualization. (The measure define the size and color)
- I used consistent color all through to make the visualization more engaging.

Story

https://public.tableau.com/app/profile/osato.precious.gift/viz/FlightCancellationstory/Story1?publish=yes