



Business Analytics Nanodegree

Build Data Dashboards | Project 4

Insight 1:

Which State have most cancellation flight? In which month?

Link:

https://public.tableau.com/profile/sultanah4786#!/vizhome/FlightDelaysandCancellations_16038358487140/CancelledFlightBystate?publish=yes

Summary:

This map shows the States that have the highest number of cancellation flights in 2015, which are they Texas (668 canceled flights) and Illinois (563 canceled flights).

In the workbook, we can select any month we want, and it will show the number of cancellation flights in each state. For example, in August, we can see that California has the highest number of cancellations (45).

Design:

I chose a map because it's the perfect way to show the state and the number of canceled flights for each state.

Resource:

N/A

Insight 2:

Which airlines have a high number of canceled flights? Do these canceled flights vary by month or day of the week? What the reasons for these cancellations?

Link:

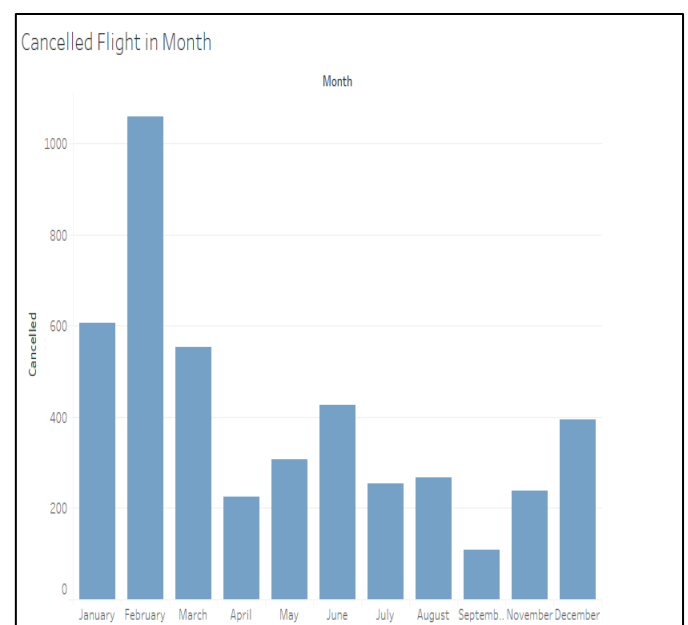
https://public.tableau.com/profile/sultanah4786#!/vizhome/FlightDelaysandCancellationsDashboard_16038359305670/Dashboard1?publish=yes

Summary:

In this dashboard, we can see the airlines that have canceled flights and how they vary by day of week and months. In general, Southwest Airlines Co. (WN) has the highest number of cancellations (818 canceled flights). And February is the month with the highest cancellation flights (1085). So, we can avoid traveling in February month and WN airline.

We can see the reason for cancellation flights: 54.06% of flight canceled because of weather, 28.42 % because of Airline/Carrier, and 17.51% because of the National Air System.

Also, there is an interesting thing that I found in this bar chart, there are only 11 months and the missing month is October that means there are **NO canceled flights in October** and that can be the best time of year to travel.



Design:

For airlines delays and cancelled flight in month I choose a bar chart because it's clearer and easier to read.

For cancellation reason I choose a pie chart because it's the ideal chart to show the percentage. For the color I choose the color blind.

Resource:

https://help.tableau.com/current/pro/desktop/en-us/datafields_typesandroles_datatypes.htm

[https://help.tableau.com/current/pro/desktop/en-us/calculations_percentages_options.htm#Percent of Column](https://help.tableau.com/current/pro/desktop/en-us/calculations_percentages_options.htm#Percent_of_Column)

Insight 3:

What are the airports that have Security delay? Where they will go?

Link:

<https://public.tableau.com/profile/sultanah4786#!/vizhome/AirportthathaveSecurityDelays/AirportswithSecurityDelay?publish=yes>

Summary:

This workbook shows the airports that have Security delay and where these flights go to. There are 342 flight has Security delayed in Orlando International Airport and these flights were going to MCO. Fortunately, more than half of the airport does not have a Security delay in 2015.

Design:

I choose Text tables because it shows the data in clear way. Also, we could use bar chart.

Resource:

N/A