

## Insight 1

[https://public.tableau.com/profile/melisha#!/vizhome/Udacity\\_USFlights\\_data\\_project/Dashboard1](https://public.tableau.com/profile/melisha#!/vizhome/Udacity_USFlights_data_project/Dashboard1)

### Summary:

This map is showing the Average taxi in time based on airport across the country. It appears that Chicago O'Hare International Airport has the highest Average (13.7) taxi in time with 14,789 total flights. That tells the Airlines flying from that airport suffers more delays. Which affect the overall performance of Airlines. The shorter an aircraft's taxi time is the faster air-traffic control can get planes in and out of the airport.

As we can see, when we hover to Hartsfield - Jackson Atlanta Airport their Average Taxi in is just (8.771) having 17,833 flights. That shows this airport is able to manage their taxi time efficiently than the rest of the airports. To mitigate the issue the airports, need to have more runways allowing for the takeoff of many aircrafts at one time also having an efficient taxiways and shorter taxi times can help.

### Design:

This insight is explaining how the different airports have taxi delays across the country. Its easier to visualize and compare multiple airports in the map and see their details. And adding the bar chart showing a more clarity to the weekly delays based on the airports.

## Insight 2

[https://public.tableau.com/profile/melisha#!/vizhome/Udacity\\_USFlights\\_data\\_project/Dashboard2](https://public.tableau.com/profile/melisha#!/vizhome/Udacity_USFlights_data_project/Dashboard2)

### Summary:

This Dashboard is showing the most cancelled Airline due to carrier cancellation reason. Southwest Airlines having the highest cancel due to the problems occurred in the Airline itself. They have 309 cancellation in a week whereas the Hawaiian Airline had the lowest cancellation of only 8 in a week.

The Bar chart is showing the comparison between departure delay and airline delay. Again, the Southwest Airlines has the highest Airline and departure delay and Hawaiian Airline the lowest. As the chart shows the departure delays are higher than the Airline delays, which represents departure delay causing the more time delay in flights than the Airline delay. That means Airlines need to improve their performance regarding the better management of departure issues and delays.

Design:

This visualization uses the bar chart which is comparing two categorical value. As it is showing how the airline and departure delays varying over the weeks in different Airlines. Also, this visualization utilizes the high data ink ratio eliminating the chart junks.

### Insight 3

[https://public.tableau.com/profile/melisha#!/vizhome/Udacity\\_USFlights\\_data\\_project/BusiestAirportbyMonth](https://public.tableau.com/profile/melisha#!/vizhome/Udacity_USFlights_data_project/BusiestAirportbyMonth)

Summary:

This chart is showing the busiest origin Airport based on each month. The line contains the number of flights in every month in each origin Airport. As we see Hartsfield–Jackson Atlanta International Airport has the most Flights in top 15 list having the highest number of flights (1759) in July. We can filter month wise and see the difference in the flights number based on different Airport.

Design.

This visualization uses color blind palette covering all type of audiences also utilizes line plot to visualize the time period.

Resources:

N/A