Data Visualization Project

Saad Bin Zubaeir, October 2022

1. **Delay by Airport**

- **Link** - https://public.tableau.com/app/profile/saad.bin.zubaeir/viz/DelayByAirport_16660087241640/DelaybyAirport?publish=yes

- **Summary** - This workbook shows number flight delays on every state by airport on the map visualization. From the visualization we can see that most flight delays are on Hartsfield-Jackson Atlanta International Airport (17,833), Chicago O-hare International Airport (14,789), LA international Airport (10,125).

- **Design** – I choose the map design for showing the data because I was trying to show airport across the U.S.A and by the count of delay how they reflect on the map with color and size. I made it interactive with month filter.

- **Resources** - N/A

2. **Delay by Airline**

- **Link** - https://public.tableau.com/app/profile/saad.bin.zubaeir/viz/DelayByAirline_16660028412010/DelayByAirline
- **Summary** – On this workbook I showed arrival and departure delay by airlines. From the visualization we see that Southwest Airlines has the highest count of delays for both arrivals and departures, and Alaska Airlines has the lowest count of delays for arrivals and departures.
- **Design** – I choose scatter plot for the visualization design since we are comparing two different numeric values. Visualization is interactive with airline filter.
- **Resources** – N/A

3. **Delay types over month**

- **Link** - https://public.tableau.com/app/profile/saad.bin.zubaeir/viz/DelayTypesOverMonth/DelaytypesoverMonth

- **Summary –** On this workbook I showed total flight delay count over time (month). From the visualization we can see that 3 spikes of delay on February, June, and December. June and December is busy because it is summer and Christmas vacation.
- **Design –** I choose line chart since we are comparing change of data over time. Also, line helps to identify trends.
- **Resources –** N/A

4. **Top 10 Airport by Delay Types**

- **Link -** https://public.tableau.com/app/profile/saad.bin.zubaeir/viz/Top10AirportByDelayTypes/Top10AirportbyDelayType
- **Summary –** On this workbook I showed top 10 airport by flight delay counts by the types of delay. We can see that Chicago O-hare has the highest Departure, arrival, late aircraft, and air system delays.
- **Design –** I choose stacked bar because it is easier to see the comparison and we see the data point more clearly when they on top of one another. Another reason is that we comparing the different delay categories thus stacked bar chart felt more suitable for that.
- **Resources –** N/A

Dashboards:

1. Flight Delay by Airport and Delay Types - https://public.tableau.com/app/profile/saad.bin.zubaeir/viz/FlightDelaybyAirportandDelayTypes/FlightDelaybyAirportandDelayTypes

2. Flight Delay by Airline over Month - https://public.tableau.com/app/profile/saad.bin.zubaeir/viz/FlightDelaybyAirlineoverMonth/FlightDelaybyAirlineoverMonth

3. Flight Delay by Airport and Airline - https://public.tableau.com/app/profile/saad.bin.zubaeir/viz/FlightDelaybyAirportandAirline/FlightDelaybyAirportandAirline

Story:

Flight Delay by Airport | Airline | Delay Types - https://public.tableau.com/app/profile/saad.bin.zubaeir/viz/FlightDelaybyAirportAirlineDelayTypes/FlightDelaybyAirportAirlineDelayTypes