

Data Visualization Project

Final Project

Q1: how can we differentiate between number of delays on the first and the last month of the year?

- **Link**

https://public.tableau.com/profile/reem5155#!/vizhome/Question1_71/Dashboard1?publish=yes

- **Summary**

Overall airlines got a clear increasing of delays on the middle of year, from June to August. While delays vary from airline to other, almost all of airlines recorded a huge increasing on number of delays on December follows with a decreasing of delays number on January. These clarify that there are differences of delays from the beginning of the year until the end. Thus, the highest total of delays recorded to the Southwest Airlines Co. (WN) airline with (1,820,495) delays, and lowest total in for Hawaiian Airlines Inc. (HA) airline with (40,768) delays. US Airways Inc. (US) is the tenth airline in the list of total delays, while it is only worked for first 6 months of the year!

- **Design**

I have used line plot to illustrate the time period clearly during the year. Also, I used histogram to clarify number of delays for each airline separately.

Q2: Which airport people most likely to fly out from?

- **Link**

https://public.tableau.com/profile/reem5155#!/vizhome/Question2_54/Story1?publish=yes

- **Summary**

The most likely airport regarding to the number of flights from the origin airports is Hartsfield-Jackson Atlanta International Airport (ATL) that on Georgia state with (18,056) flights followed by the Chicago O'Hare International Airport (ORD) on the state of Chicago with (14,584) flight. The lowest likely airport on the list is Martha's Vineyard Airport (MVY) with only two flights from it.

- **Design**

I used the map to declare to exact location of the airport rather than describe or mention it. I also used the bar chart to clarify number of flights for each airport.

Q3: what is the most common cancellation reason?

- **Link**

https://public.tableau.com/profile/reem5155#!/vizhome/Question3_48/Dashboard1?publish=yes

- **Summary**

The most frequent reason of flight to be cancelled is (weather) for most of airlines, with total of 2,397 times. Southwest Airlines Co. recorded the most cancelled flights, and Hawaiian Airlines Inc. recorded the least.

- **Design**

I used the histogram to determine the number of cancellation flights for each airline. Also, I used Packed Bubbles to show different sizes for each reason.