

Insight 1

https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject_16628236688450/Dashboard?publish=yes

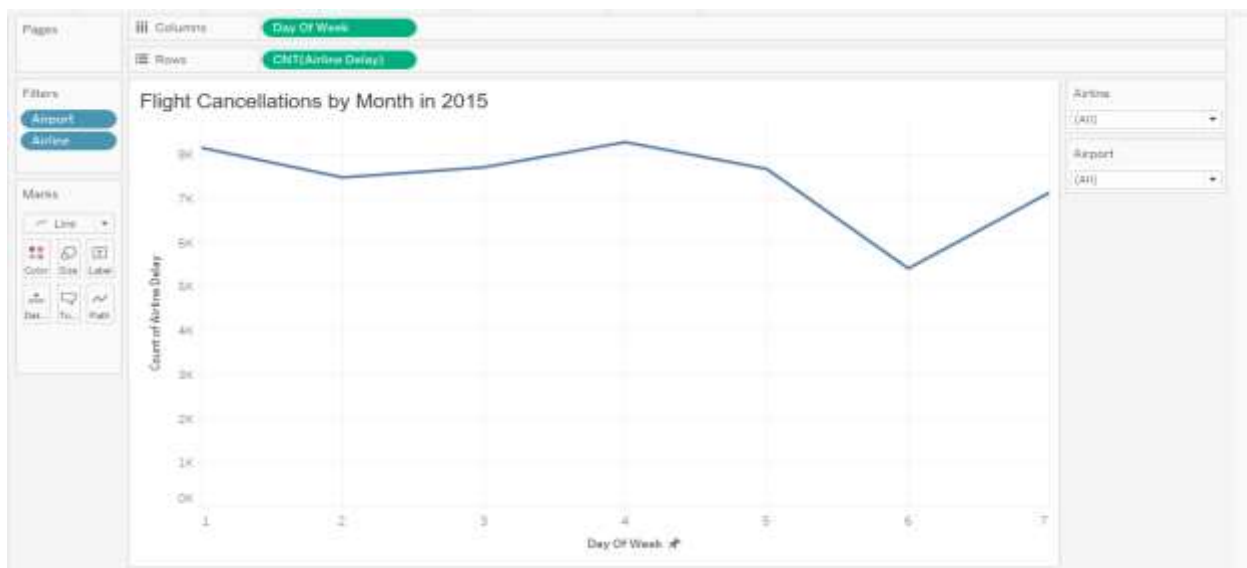
- It revealed that Hartsfield- Jackson Atlanta International Airport (17,641 times arrival delay) was the worst arrival delay airport in the US in 2015.
- In 2015, DL airline had 11,402 arrival delays at Hartsfield-Jackson Atlanta International Airport, placing it in the bottom half of all the airlines with arrival delays at US airports.
- Data from the primary source data are utilized to create a map chart that visualizes the geographic area of the United States. allows users to highlight subdivisions so they can more easily see the arrivals that are the most delayed.



Insight 2

https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject_16628236688450/Dashboard?publish=yes

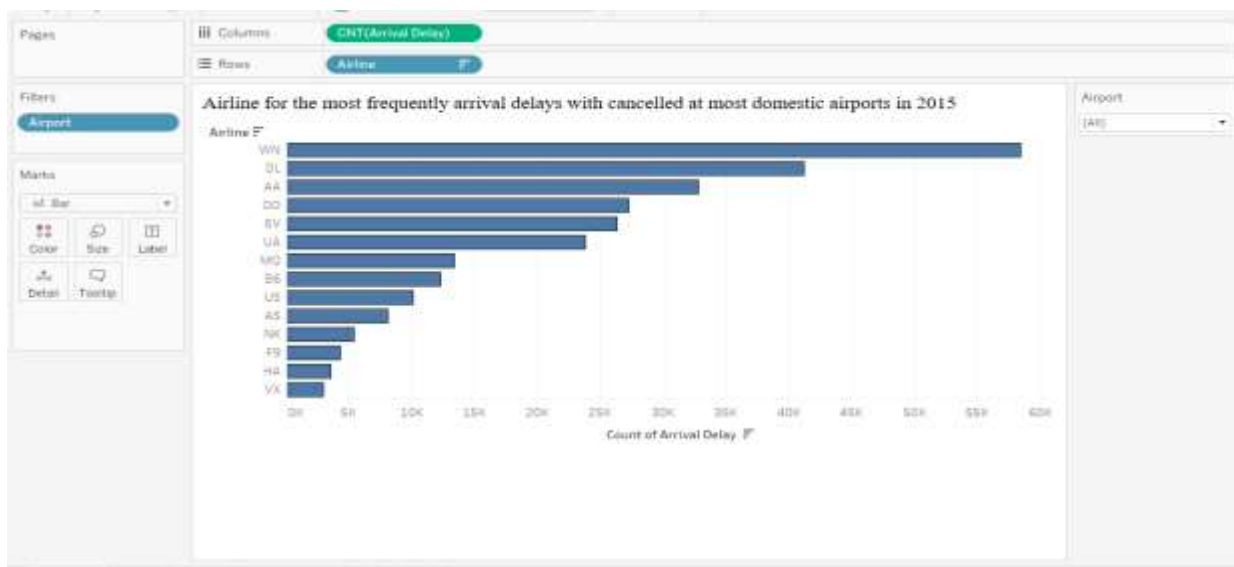
- This graphic shows the eight main reasons for flight delays: airline, air system, departure, diverted, late aircraft, security, and weather delays. The sixth day of the week is the one with the fewest flight delays, according to counters for all eight major causes.
- Using a line plot, we can easily represent data with a variety of numbers and data points.



Insight 3

https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject_16628236688450/Dashboard?publish=yes

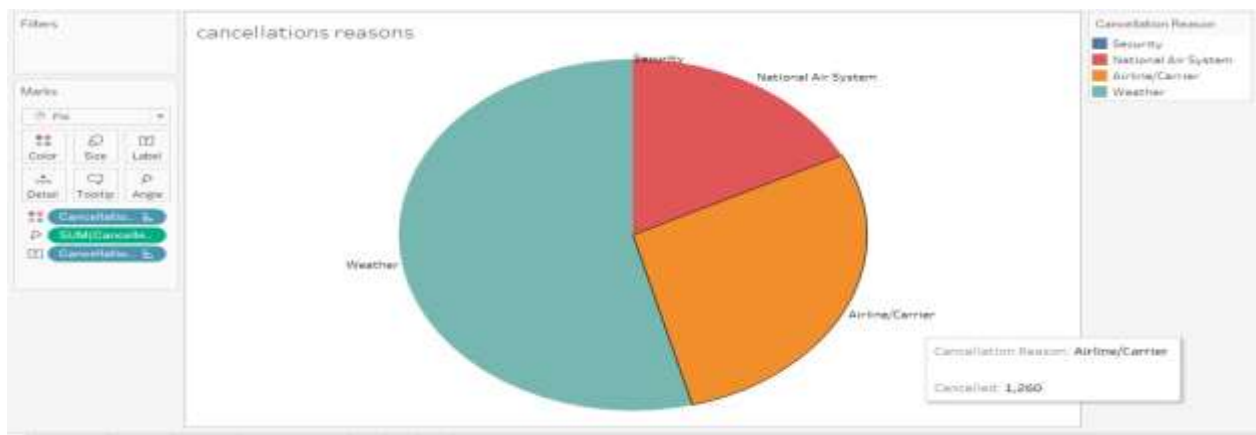
- In 2015, 14 airlines will operate domestic flights within the US. As the worst-performing domestic airline in the US, WN (Southwest) Airline has the worst records among them, with 58,438 arrival delays and 59,437 flight cancellations from US domestic airports.
- A bar chart is used to display data with little extraneous chart clutter. A trend can be viewed as a broad negative slope.



Insight 4

https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject_16628236688450/Dashboard?publish=yes

- This visualization displays the frequency of cancellations caused by factors such as weather, national air system, and airline/carrier. It is evident that weather, which accounts for more than half of cancellations, is the main factor.
- A pie chart is used to easily display the results to the viewer when there are few categorical variables and many numerical variables.



Dashboard visualization

https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject_16628236688450/Dashboard?publish=yes

The insights of domestic US flights and airport operations are shown in the dashboard visualization chart below. From this visualization dashboard, we can deduce four key truths about the main domestic US airports and airlines that cause airplane arrival delays.

