

# Insight 1

[https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject\\_16628236688450/Dashboard?publish=yes](https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject_16628236688450/Dashboard?publish=yes)

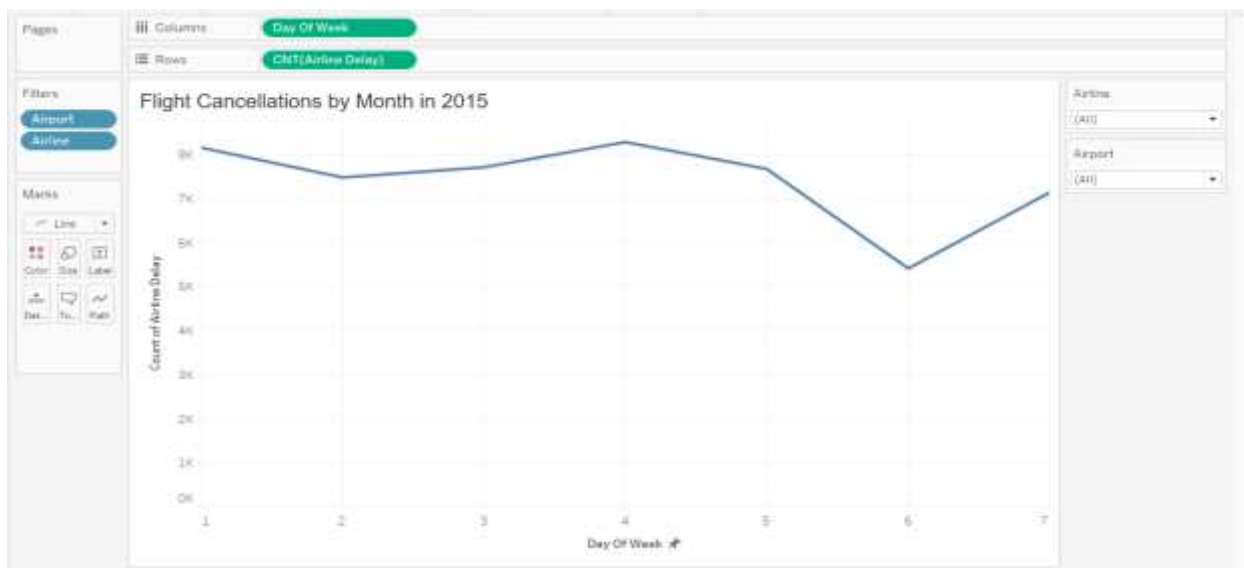
- It showed that the worst arrival delay airport at US in 2015 was Hartsfield-Jackson Atlanta International Airport (17,641 times arrival delay)
- DL airline has 11,402 arrival delay times at Hartsfield-Jackson Atlanta International Airport in 2015 as the 1st worst rank of the total number of arrival delay airlines at each airport in US.
- A map chart is used that provides a visualization of the geographic area of the United States, which contains data from the primary source data. Provides the ability to highlight subdivisions so that it is easier for the user to see the most delayed arrival



## Insight 2

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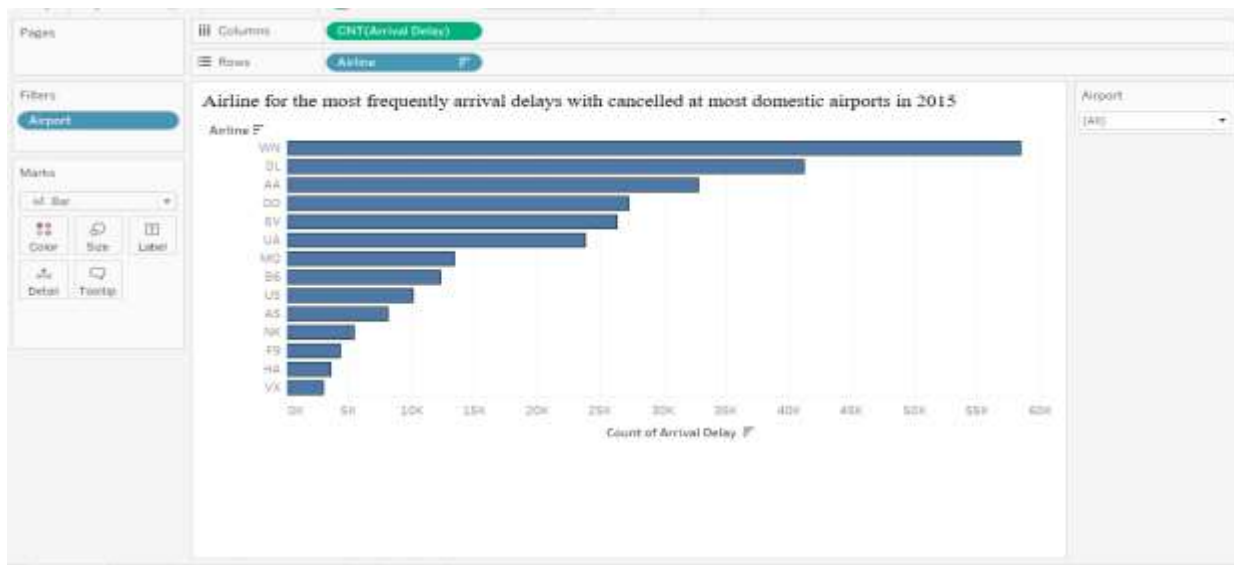
- There are 8 major causes for flight delays in this chart; Airline delay, Air System delay, Departure delay, Diverted, Late Aircraft delay, Security delay, and Whether delay. All 8 major causes' counters tell us that the 6th day of week is the least flight delay day in the week.
- A line plot is used allow us to represent data in a simple way - with a wide range of numbers and data points



## Insight 3

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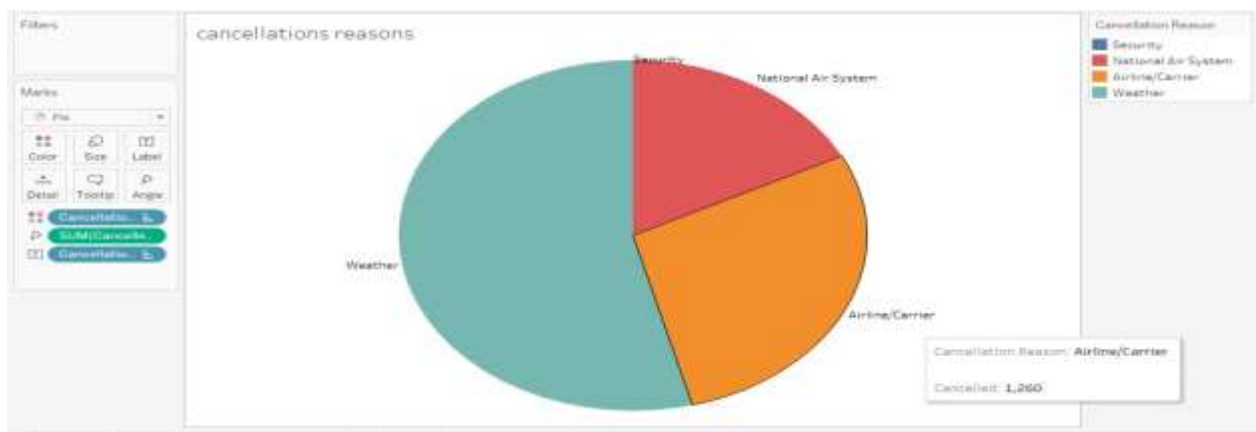
- There are 14 airlines to carry out US domestic flights in 2015. Among of them, WN(Southwest) Airline has the worst records; 58,438 arrival delays and 59,437 flight cancellation from US domestic airports as No. 1 lowest performing domestic airline.
- A Bar Chart is used to show data with minimal chart junk. A general negative slope can be seen as a trend.



## Insight 4

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- This visualization shows the occurrences of cancellations due to reasons Airline/Carrier, Weather, National Air System. It can be seen that the primary cause of cancellations is Weather which accounts for more than half.
- A pie chart is used to between a few categorical variable and Many numerical variable easy to show the results to the user



## Dashboard visualization

[https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject\\_16628236688450/Dashboard?publish=yes](https://public.tableau.com/app/profile/ahmed.osama.ahmed.farouk/viz/FlightProject_16628236688450/Dashboard?publish=yes)

The below Dashboard visualization chart is about the insights of US domestic flights and airports operation related data sets. we are able to find out four major insights from this visualization dashboard regarding flights' arrival delays at major US domestic airports & airlines with major causes.

