

Write-up: Tableau Project

- Initial Story:

<https://public.tableau.com/profile/mohamed2230#!/vizhome/MohamedMedhatNanoDegreeTableauProject/StoryofFlightsandCarrier?publish=yes>

- Final Story:

<https://public.tableau.com/profile/mohamed2230#!/vizhome/MohamedMedhatNanoDegreeTableauProjectFinal2/StoryofFlightsandCarrier?publish=yes>

Summary:

- This is a summary for more than 7 Million flights occurred at 2005 and their contribution cross months, weeks and weekdays, and how it changes over time and which carriers have a high contribution and which cancellation reason for flights related to, On the other hand, which carriers have a high/low delay in arrival or departure more.

Design:

- I started creating new calculated filed after I noticed that I can reform the year, month and day to form date and from there I can extract weekdays and the week number to look into deep about which day has high flights or cancellations.
- Then I started to look at the number of flights and the carriers contributions to these flights cross different timeframes, months, weeks and weekdays to witness any changes might occur.
- Then I started looking at the delays occurrences is it for arrival or departure and which carriers have a repetitive occurrence.
- Finally, I take a step to look into the average minutes taxi in/out per carrier has.

Feedback:

Feedback from my colleague at work:

- 1- **#Cancellations Cross Categories:** Cannot separate lines for the (NAS, Weather, and Carrier) reasons, it's hard to look at changes there.
Action: Changed the Y-axis to be scaled as "Logarithmic" and exclude Zero data.
- 2- **#Flights Cross Year:** Cannot look at appropriate change from month to month as most of them are close to each other.
Action: I exclude Zero data entry for Y-axis and this increase the difference between a month to month.
- 3- **#Arr vs Depr of Carriers & #Taxi (IN/OUT):** It's hard to know how exactly average in minutes for Taxi IN/OUT or Arrival/Departure delay as the scale is close to each other.
Action: I included labels data to be visible in the charts and be easy to know the representative number of average minutes for the delay.
- 4- **#Arr vs Depr of Carriers & #Taxi (IN/OUT):** make each parameter with different color like Taxi_IN and Taxi_OUT has a different color.
Action: I changed the color on each chart bars to be easily visible.

Resources:

- https://help.tableau.com/current/pro/desktop/en-us/functions_functions_date.htm
- <https://www.absentdata.com/animation-tableau/>
- https://help.tableau.com/current/pro/desktop/en-gb/calculations_calculatedfields.htm