

# Project 4: Data Visualization

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## Insight1:

**Which the State & Airport comes with Highest Number of Flight?**

## Link:

<https://public.tableau.com/profile/bilal6050#!/vizhome/BilalALTurki/FlightCountDashboard?publish=yes>

## Summary:

As we can see in the dashboard, we have two visualizations, first one is Maps charts and another one is Horizontal Bars chart, the map shown the count of flight in each state at USA, we can see the darker color of orange come with the highest number of flights at 'CA' state with 33.331, and the second one is 'TX' state with 32.612 flight, and the state with lowest number of flights at 'AS' with 2 flight.

The second visualization shown the count of flight in each Airport at USA, as we see the highest number of flights at 'Hartsfield-Jackson Atlanta International Airport' with 17,833 flights, and the second airport is 'Chicago O'Hare International Airport' with 14,789 flights, and its gradual decrease to the lowest one 'Ithaca Tompkins Regional Airport' with 1 flight.

For all visualization on the dashboard, we can apply the filter 'State' that allows to filter and navigate between state & airport and the relation between them.

## Design:

- \* I chose colors are fitting with the blinded readers for all visualizations in the dashboard, that can be read clearly and easily.
- \* I used in the dashboard two visualizations:
  - 1- Maps chart that shown the number of flights in each state in USA country, it's easy to show the value with darker to lighters colors to ensure it clearly to understand.
  - 2- Horizontal Bar chart I sorted the data by descending to show from the bigger to smaller to ensure it's easy & clearer to reading and understanding.
- \* I used filter 'State' to filter the content and the relation between them and getting on the information easily.

**Resources: N/A**

## Insight2:

### Which the Most Airline That Causes Delays?

## Link:

<https://public.tableau.com/profile/bilal6050#!/vizhome/BilalAITurki-AirlineDelays/AirlineDelays?publish=yes>

## Summary:

As we can see in the visualization, the 'Southwest Airlines Co' has the most delays with the 182.670 delay, then the second one is 'American Airlines Inc' with a 131.674 delay, and its gradual decrease in the lowest delay 'Virginia America' with a 7583 delay.

## Design:

- \* I chose the colors are fitting with the blinded readers, that can be read clearly.
- \* I used the Treemaps chart that shows the data from bigger to smaller to ensure it's easy & clearer to read.
- \* I used some filters like 'Cancellation Reason' and 'Airline Names' to facilitate getting on the information.

**Resources:** <https://www.kaggle.com/usdot/flight-delays/data>

## Insight3:

### Which the Reason that Cancellation Flights at Florida State?

## Link:

<https://public.tableau.com/profile/bilal6050#!/vizhome/BilalAITurki-CancellationReasonatFL/CancellationReasonatFL?publish=yes>

## Summary:

As we have shown in pie chart, we have 3 reasons to cancel the flights at Florida, the first reason come with the highest number of cancellations is caused by 'Weather' with 155 flights, and the second reason is 'Airline/Carrier' with 61 flights. And the third reason is 'National Air System' with 26 flights. This means that the total number of canceled flights in Florida is 242.

## Design:

- \* I chose the colors are fitting with the blinded readers, that can be read clearly.
- \* I used the pie chart to enhance the reading and quickly see the reasons.
- \* I used some filters like 'State' and 'Cancellation Reason' and I set the state to 'FL' to getting the reason for cancellation flight and numbers at Florida.

## Resources: N/A