Flight Delays and Cancellations

- I started with a question : What is the biggest reason for the delay
  By aggregating the sum of minutes for each delay type.
  (Departure delay) was on the top .
  Flights delays (most common delay reasons) | Tableau Public

- Based on the first visualization , I made a map that shows the states where Flights were delayed due to (Departure delay) filtered by month.
  Flights delays (map with states faced the most departure delay)) | Tableau Public
  As shown in the map California and Texas are the top states in departure delay.

- I made a dashboard to combine the two visualizations together
  Flights delays (Dashboard11) | Tableau Public

- The third insight was about Airlines that faced flights cancellations

  With sum of airline delay minutes to know if the delay was directly

  From the Airline , the visualization is filtered by month.

  Flights delays (cancelled) | Tableau Public

  As shown WN (Southwest Airlines Co.) is the top airline in both cancellation flights and airlines delay

- The 4th insight is about the relationships between day of the week and Number of flights cancellations filtered by the Airlines .
  Day of week starts from 1 to 7 same as Saturday to Friday.
  Flights delays (dayofweek) | Tableau Public
  As shown here Weekend days have the most cancellation numbers
  With 1038 cancelled flights on Saturday only .

- I made a dashboard to combine the two visualizations together

Flights delays (dashboard 4) | Tableau Public

- **Design**
  - I decided not to use colors that is bad for color blind people.
  - Also keep an eye on the lie factor
  - Not to use noisy colors
  - First insight I used bar chart as it is between categorical (Type of delays) and continuous (number of delays) , and sorted it in descending order.
  - In the second insight I used the map to show states location .
  - In the third insight I used horizontal bar chart .
  - In the fourth insight I used line plot as I deal with a date (day of week).

Resources : NA