Insight 1: Number of flight in 2015 in the State

Summary: Based on the charts, it is evident that flight activities peaked in July (26,810 flights) while February had the lowest number of flights (22,404) with the highest proportion of cancellations (4.72%).

Link:
https://public.tableau.com/app/profile/hengki.irawan/viz/NumberofflightsintheUSin2015/Overallnumbers?publish=yes

Design:
It is possible to use a line graph to depict the trend of the number of flights in the United States over time. The y-axis can be used to represent the number of flights while the x-axis can represent time. By plotting the data points, a trend line can be generated to indicate the overall direction of the flights data over time, enabling the identification of patterns and trends in the number of flights over the years.

Insight 2:

Summary: In 2015, California and Texas stood out as the two states with the highest air traffic volume. Even though Texas was the second busiest state for flights, it had the highest number of flight cancellations (661 flights) compared to any other state, followed by Illinois with 537 cancellations. However, when looking at the proportion of flight cancellations relative to the total number of flights in each state, Vermont had the highest rate at almost 5%, with Illinois being among the top 10 states with the highest cancellation rates.

Link:
https://public.tableau.com/app/profile/hengki.irawan/viz/NumberofUSflightsperstatein2015/Numberofcancellationperoriginairport?publish=yes

Design:
The utilisation of maps can effectively demonstrate the flight density in each state, while the bar chart provides insight into the frequency of flight cancellations in each state, enabling the determination of cancellation ranks. Additionally, the table presents the proportion of flight cancellations relative to the overall number of flights in each state, offering valuable information on the rate of cancellations across different states.

Insight 3:

Summary: From the information provided above, it can be inferred that weather was the main cause of flight cancellations in Texas and Illinois, while for California, airline or carrier issues were the main contributor to flight cancellations. In contrast, flight cancellations in Vermont were mainly caused by issues with the national air system.

Link:

Design:
A simple bar chart that displays the number of flight cancellations per reason in each state can help people make comparisons to identify the main reasons for cancellations in each state. This chart is easier to observe compared to a stacked bar chart, and can provide a clear and concise representation of the data, enabling quick and easy comparisons between states and reasons for cancellations.

Resource: N/A