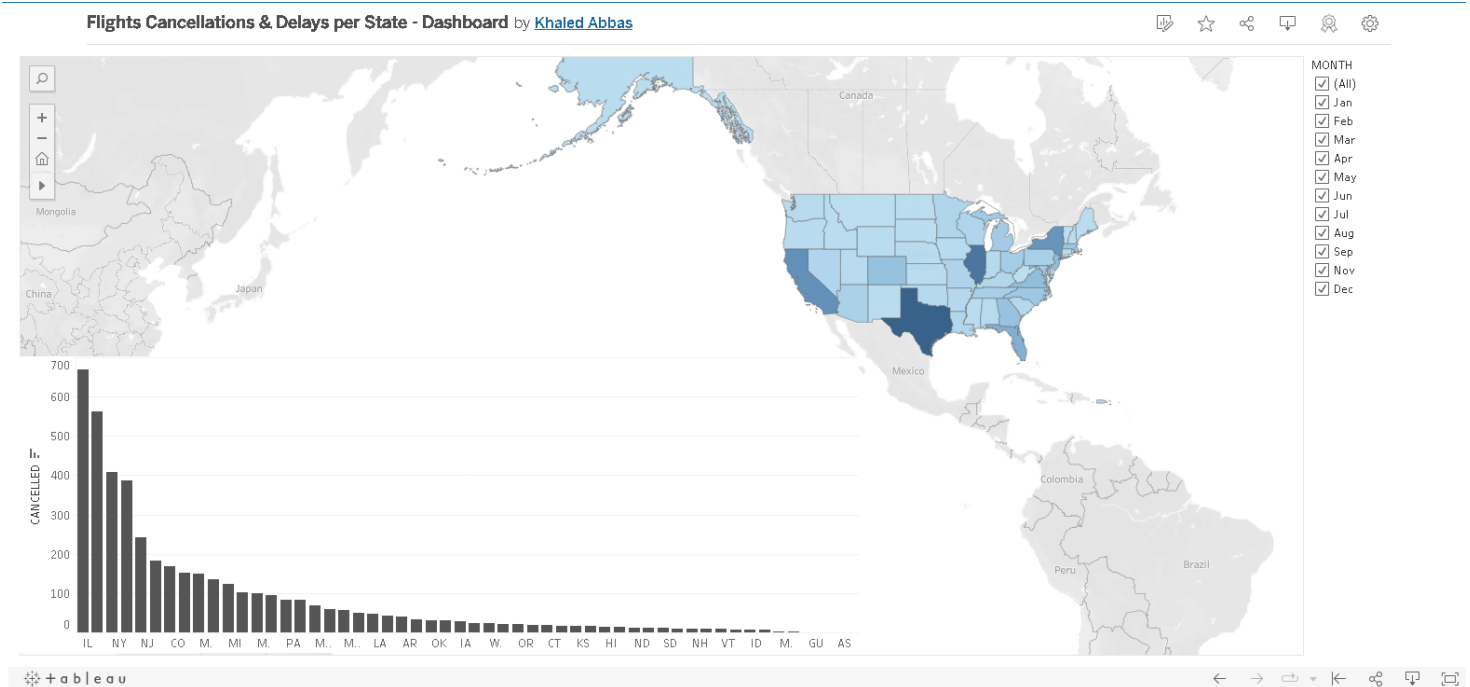


Q1: Cancellations and Delays rates by State?

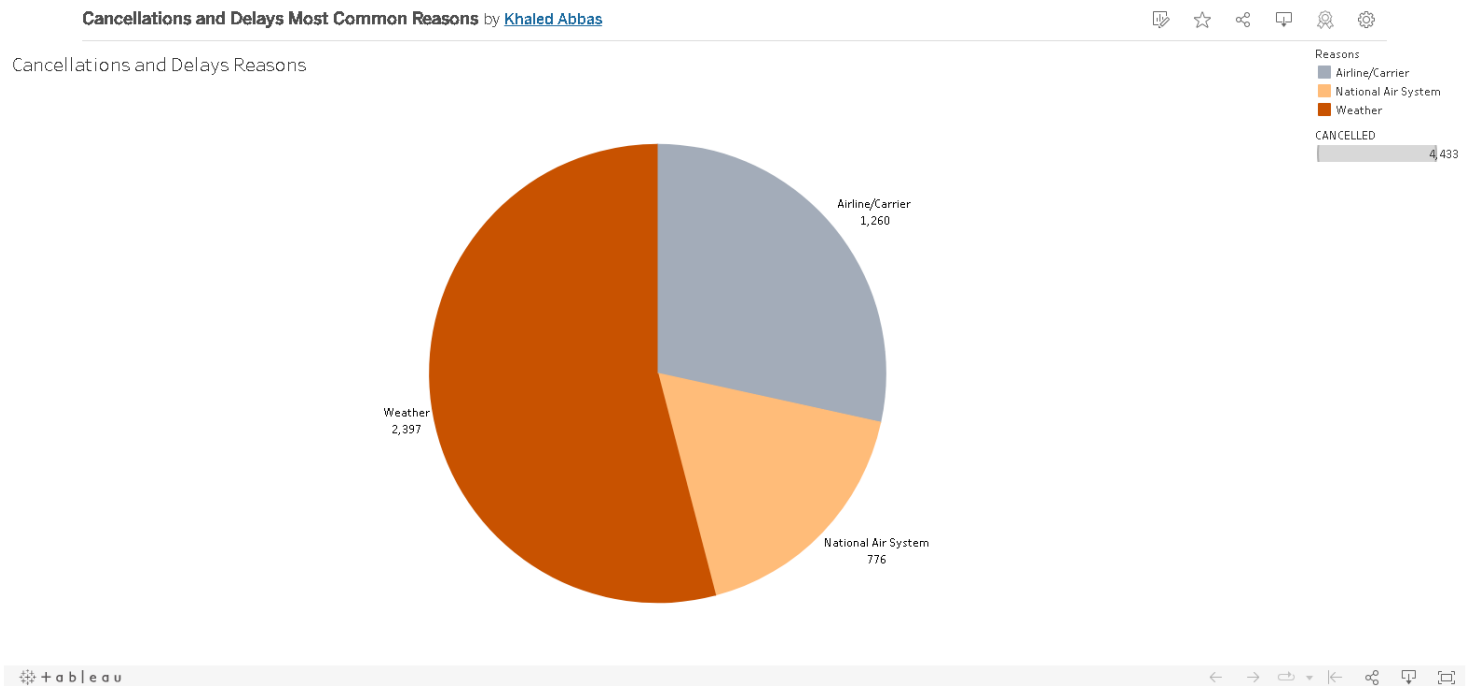


- **Links:**

- <https://public.tableau.com/app/profile/khaled.abbas/viz/NDProject-FlightsDelay/CancellationDashboard?publish=yes>

- **Summary:** The dashboard provides an overview of the states with the highest number of canceled trips throughout the year, allowing users to filter and explore the data. According to the dashboard, Texas had the highest number of cancelled trips with 668 cancellations throughout the year, followed by Illinois with 563 cancellations.
- **Design:** The dashboard features a bar chart and a map to represent the number of cancelled trips by state. The bar chart facilitates comparison between different states, while the map provides a more intuitive representation of the data in a spatial context. To ensure accessibility, a color palette that considers color blindness was selected, featuring contrasting and distinguishable colors. Overall, the dashboard design prioritizes clarity and accessibility, enabling users to easily interpret and identify the data presented.
- **Resources:** [2015 Flight Delays and Cancellations | Kaggle](#)

Q2: What are the common reasons for flight delays and cancellations?

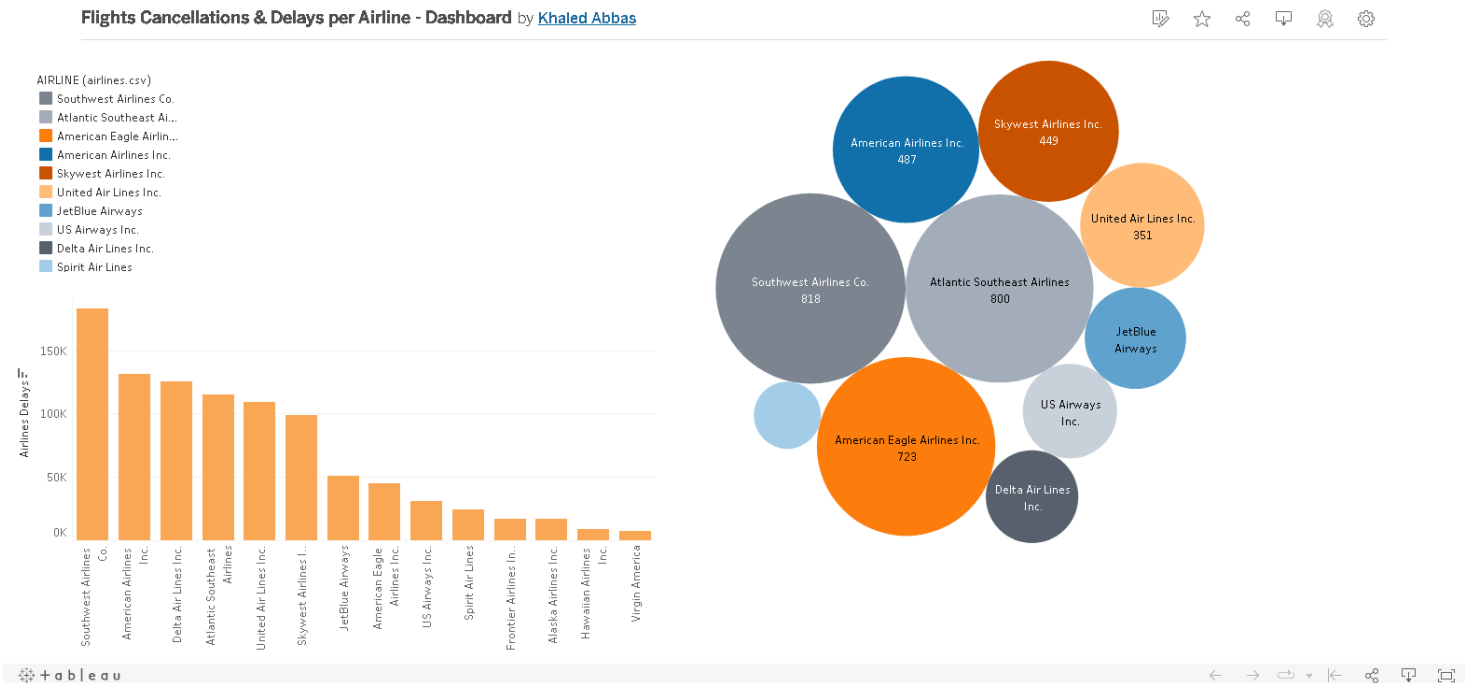


- **Links:**

<https://public.tableau.com/app/profile/khaled.abbas/viz/CancellationsandDelaysMostCommonReasons/Cancellationstopreasons?publish=yes>

- **Summary:** The pie chart above displays the most common reasons for flight cancellation. It highlights that weather is the most prominent reason, with 2,397 canceled flights, followed by airline issues, with 1,260 canceled flights. Notably, there were no cancellations due to security reasons. The large difference in the number of cancellations between weather and other factors emphasizes the significant impact of weather on flight cancellations.
- **Design:** The pie chart displays the common reasons for flight cancellations with weather being the top reason. The design prioritizes accessibility by using color contrasts and distinguishing between categories.
- **Resources:** [2015 Flight Delays and Cancellations | Kaggle](#)

Q3: How do delays and cancellations impact airlines performance?



- **Links:**

<https://public.tableau.com/app/profile/khaled.abbas/viz/FlightsCancellationsDelaysperAirline-Dashboard/AirlinesPerformanceDashboard?publish=yes>

- **Summary:** The dashboard above explores how delays and cancellations impact airline performance through a bar chart and a bubble chart. The bar chart highlights the number of delayed flights for each airline, while the bubble chart visualizes the number of cancelled flights for each airline, with the size of each bubble representing the magnitude of cancellations.
- **Design:** The design of the dashboard emphasizes clear and concise visualizations, using a bar chart to show airline delays and a bubble chart to display airline cancellations. Color blindness was also considered in the selection of colors to ensure accessibility.
- **Resources:** [2015 Flight Delays and Cancellations | Kaggle](#)