

Data Visualization Project

Project Dataset: Flight Delays and Cancellations

This data comes from a Kaggle dataset, which tracks the on-time performance of US domestic flights operated by large air carriers in 2015.

Insight 1: Most Cancellation by State

Link:

https://public.tableau.com/app/profile/mohamed.elrfaay/viz/FlightDelaysandCancellations_16679293338560/CanceledFlightsMap?publish=yes

https://public.tableau.com/app/profile/mohamed.elrfaay/viz/FlightDelaysandCancellations_16679293338560/CanceledvsStateBarChart?publish=yes

https://public.tableau.com/app/profile/mohamed.elrfaay/viz/FlightDelaysandCancellations_16679293338560/CanceledFlightsDashboard?publish=yes

Summary: From this Dashboard, we can see where the most cancellations occur. It appears that most cancellations happen in Texas (668) and Illinois (563) for all days of the week. If you filter according to a specific day of the week both states will still be at the top number of cancellations flights.

Design Comments: The map chart is perfect to show the most cancellations states with blue color (dark for most and light for least), also the bar chart descendingly views the most to least with no distracting colors.

Insight 2: What causes delays?

Link:

https://public.tableau.com/app/profile/mohamed.elrfaay/viz/FlightDelaysandCancellations_16679293338560/CancellationReasonsvscancelled?publish=yes

Summary: From this Pie Chart, we can see for the cancellation reasons weather conditions comes first by 2,397 then Airline/Carrier second by 1,260 then at last National Air System by 776 for all airlines. We can apply a filter according to a specific airline to see if it will differ from one airline to another. For instance, Virginia America airline has no cancellation due to weather conditions.

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Design Comments: The Pie Chart is perfect for categorical data like cancellation reasons. I changed the palette to blind color for clearance.

Insight 3: Which airlines have the most delays?

Link:

https://public.tableau.com/app/profile/mohamed.elrfaay/viz/FlightDelaysandCancellations_16679293338560/AirlineDelaysvsAirline?publish=yes

Summary: From this Bar Chart, we can see where the most Airline Delays occur. It appears that most Airline Delays happen in Southwest Airlines (182,670 minutes) for all months. If you filter according to a specific month Southwest Airlines will still be at the top number of Airline Delays.

Virginia America Airlines had the fewest number of Airline Delays with only 7,583 minutes for all months.

Design Comments: The Bar chart is perfect to show the most Airline Delays with blue color (dark for most and light for least), also the bar chart descendingly views the most to least with no distracting colors.

Resources:

<https://github.com/mohamedeld/Dashbord-Tableau/tree/master>