

Insight #1: Which airline has the highest number of delayed flights?

Tableau Worksheet:

https://public.tableau.com/views/TotalDelayedFlightsByAirline/TotalDelayedFlights?:language=en-US&:display_count=n&:origin=viz_share_link

Summary:

The insight focused on identifying the airline with the highest number of delayed flights. The analysis revealed that Southwest Airlines (WN) holds this distinction, experiencing a total of 27,323 delayed flights. To further explore and understand the data, filters and tooltips were strategically employed.

Total Delayed Flights by Airline:

Airline Code: WN

Airline: Southwest Co.

Delayed Flights: 27,323

Design Comments:

The "Total Delayed Flights by Airline" worksheet incorporates filters for Month, Airline Code, and Airline. The tooltip functionality provides specific details when hovering over data points, offering clarity by displaying key information such as the Airline Code (WN), Airline Name (Southwest Airline), and the corresponding count of Delayed Flights (27,323). These interactive features enhance the user's ability to delve into the dataset.

Resources: N/A

Insight #2: How does the number of delayed flights vary on a monthly basis, and are there specific months that consistently experience higher or lower delays in comparison to others?

Tableau Worksheet:

https://public.tableau.com/views/MonthlyFlightDelaysOverview/MonthlyFlightDelaysOverview?:language=en-US&:display_count=n&:origin=viz_share_link

Summary:

Southwest Airline stands out prominently in this regard, experiencing a substantial number of delayed flights, specifically 3,106, during the month of July. In contrast, all other airlines collectively have delays below 1,538.

Monthly Flight Delays Overview:

Month: July

Airline: Southwest Co.

Delayed Flights: 27,323

Design Comments:

The choice of a line chart for the "Monthly Flight Delay" worksheet was deliberate due to its ability to showcase trends and variations over time effectively. Line charts are particularly suitable for visualizing sequential data. While bar charts are useful for comparing individual data points, they might not capture the temporal aspect as well as a line chart.

Resources: N/A

Insight #3 : Which airport has the highest number of delayed flights?

Tableau Dashboard:

https://public.tableau.com/shared/62DB87954?:display_count=n&origin=viz_share_link

Summary:

The analysis revealed a significant insight into flight delays, focusing on the question of which airport experiences the highest number of delayed flights. The findings point to Hartsfield-Jackson International Airport, with a total of 6,790 delayed flights.

Geographical Distribution of Delays:

Airport Code: ATL

Airport: Hartsfield-Jackson International Airport

Delayed Flights: 6,790

Design Comments:

This data is visually represented through a Map chart, where the airport is labeled as Hartsfield, identified by the airport code ATL. The analysis is further enhanced by the inclusion of filters for Month, Airline, and Airport, providing a dynamic view of delayed flights based on various parameters. The tooltip feature complements the visualization by offering specific details, such as the airport code (ATL), the airport name (Hartsfield-Jackson International Airport), and the exact count of delayed flights (6,790).

Resources: N/A