

Data Dashboards

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Insight 1 : Airlines which have the worst delays

Link :

https://public.tableau.com/views/Flight1_16617889395070/Sheet1?:language=en-US&:display_count=n&:origin=viz_share_link

This bar chart shows us that the airline Southwest Airlines had the most cancellations but also the most flights .

Hawaiian Airlines had the least number of cancellations.

Design: I've used a bar chart for the visualization, because it gives us a very clear view, even if there are more values.

Insight 2 : Cancellation reason by type

Link :

https://public.tableau.com/views/Flight2_16617899742900/Sheet2?:language=en-US&:display_count=n&:origin=viz_share_link

This visualization shows the occurrences of cancellations due to reasons (A, B, C) relative to the day given the week, time of month, and month. It can be seen that the primary cause of cancellations is "B" which accounts for more than half. While the Excel Sheet does not explicitly state what reason "B" is, looking at the month of February implies it is related to weather conditions since this is the dead of winter.

Design: The Area Chart was utilized as it can draw the attention of the user to the magnitude of the dilemma, without being distracting or misleading.

Insight 3 : Distance and Air time relation to cancellation

Link :

https://public.tableau.com/views/Flight3_16617910986370/Sheet3?:language=en-US&:display_count=n&:origin=viz_share_link

Now, we can see something interesting and insightful. While this graph still shows that Southwest (WN) still has the worst delays and cancellations, we can see that these issues are proportional to the total distance of the trip and the length of the flight time. This is relatively true for all airlines as well, except for American Eagle (MQ) that has a high amount of cancellations with respect to their flight times and distances. Since this dataset is from 2015, there might have been an incident that caused a massive amount of cancellations that skew the results.

Design: The Bubble Chart was utilized as it can draw the attention of the user .

Dashboard 1: Frequent Delays airlines and for what reasons :**Link :**

https://public.tableau.com/views/Flight_16617875728120/Dashboard1?:language=en-US&:display_count=n&:origin=viz_share_link

Finally, a rudimentary Dash Board is added to show relationships between each research question and the similarities between their results.

Dashboard 2 : Analyzing Delay types based on the day:**Link :**

https://public.tableau.com/views/Flight1_1_16618165156930/Dashboard1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Comparing cancellation of flight with flight diversion
Factors contribute the most to flight delay

Thank You!