Flight Delays

Dashboard 1: Which airlines or airports have the worst delays?

Link: https://public.tableau.com/shared/YF8G8HFD3?:display_count=n&:origin=viz_share_link

Summary:

1- a KPI card showing the average departure delays for every Airline
2- the number of flights made by every airline
3- And I made a map to show these things:

- The location of the Airport
- The number of flights per airport
- The average departure delay per airport
- The average arrival delay for every airport

4- A bar to show the average arrival delay for every airline

Design:

1- I chose to make a dark background map and the locations with orange
2- The tooltip on the map showing
    - the name of the airport
    - average arrival and departure delay
    - Number of flights in the airport
    - Showing the number of flights in every airport by using a bar plot

3- The tree map showing the number of flights made by every airline

Resources: N/A

Dashboard2: What causes delays?

Link:
https://public.tableau.com/shared/DQX6JWZNN?:display_count=n&:origin=viz_share_linkSummary

Summary: The main reason for this dashboard is:

- The number of canceled flights by every airline and every airport
- The segment for every reason to cancel the flight
- A map to show the location of the airport and the number of canceled trips and the segment for every reason to cancel the flights
- KPI card to show the number of flights canceled by every reason

Design:

1- KPI card showing the reasons for cancellation with a number, it is a decent shape to see the numbers associated with every reason
2- A pie chart t shows the segmentation of reasons with calculated field
3- A bar chart to show the number of canceled flights from every airline
4- A map to show these things:
   - Airport location colored and sized by the number of canceled trips
   - The tooltip showing the name of the airport, the number of canceled flights, and the segmentation of reasons for cancelation

Resources: N/A

Dashboard3: Flight cancellations and delays

Link: https://public.tableau.com/shared/5CR5NM43D?:display_count=n&:origin=viz_share_link

Summary: the main reason for this dashboard is to show the difference between weekends and weekdays in the departure delay, arrival delay, and the number of flights canceled.

1- A highlighted table to show the number of flights on weekdays and weekends
2- A packed bubble to show the number of weekday and weekend cancellations
3- A KPI card to show the difference between the average flight delays on weekdays and weekends.
4- A packed bar to shows the number of flights canceled by every airline colored by the reason for cancellation
5- A dual axis map to shows map shows:
   - The location and the name of the airport
   - The color and size differentiate with the number of cancellations and the average departure delay
   - Number of canceled flights by airport
   - Average departure delay and average arrival delay by the airport
6- A filter to determine weekdays or weekends to show the difference in the dashboards between them

Design

7- Make the filter on the top of the dashboard to filter the weekdays and weekends
8- The dual-axis map shows with colors different parameters like the number of canceled trips and the average delay of departure
9- Three KPI cards on the top of the dashboard to notice the difference between the weekdays and weekends

Resources: N/A