

Flight Delay Report

Report 1:

Link:

https://public.tableau.com/profile/raja4776#!/vizhome/Airline_delay_15568742274320/Sheet1?publish=yes

Summary:

This Visualization reports: Which airlines have the worst delays?

This Packed Bubble Reports helps us to get the Airlines which have most delays. These delays will cause passenger to reach the destination late, which will affect their appointment and connecting flights.

To obtain this report I joined (Inner Join) flights and airlines files, I have created a calculated field as total delay by adding both arrival and departure delay.

We can get the total delay time in minutes by hovering over the bubbles.

From Bubble report we can see that Southwest Airline Co is highest delayed airlines with 931,259 minutes delay and Lowest is Hawaiian Airlines Inc with 7,082 minutes of delay.

Design:

I had many options like horizontal bar, stacked bars, circles but in that packed bubbles provides more attractive visual.

I used Color Blind Palette for better view.

Resources:

N/A

Report 2:

Link:

https://public.tableau.com/profile/raja4776#!/vizhome/Cause_of_delays/Sheet2?publish=yes

Summary:

This visualization reports- What are all the possible causes for delays?

This Area Chart Report helps us to understand the which has more delays.

To obtain this report I joined (Inner Join) flights and airlines files, And Added Average of delays (late aircraft delay, security delay, airline delay, air system delay, and weather delay) from measures and Month in columns, also month this set as a filter after changing it to discrete.

This Report gives us the Average delay from all the 5 delays.

From this report On an Average we can see that "Late Aircraft Delay" is top cause for the delays. We need to concentrate on this factor to reduce the delay and we save passengers time and we can maintain a good rapport with the passengers.

Weather delay is high 4.84 on Average and it goes down in July to 2.353.

Security delay is very less in April and high in the month of November

Design:

First, I decided to work in Lines chart, but Area Chart seems to be a better option. We can see the Cause of delays in rows and Month as column.

Reference:

NA

Report 3:

https://public.tableau.com/profile/raja4776#!/vizhome/Cancelled_Flights_15573324985290/Dashboard1?publish=yes

Summary:

This Dashboard reports: Number of cancelled flights by Airlines in each month.

I have Joined flights, Airlines and Airports files to get this dashboard report. First, I created a horizontal bar chart to get the sum of cancelled airlines by month and sort it in descending order. Then I created a Map View of cancelled airlines of each state month wise.

This Reports tells the top airlines with highest cancellation is Southwest Airlines in CA state with 166 cancelled flights and Hawaiian Airlines Inc has very cancelled flights.

By looking the data, we didn't reason from all the passenger, we can see the cancellation is may due to the weather condition and also we need to concentrate on the delays caused by humans to reduce the cancellation counts.

Design:

This Report consists of Map view for the cancelled Airlines month wise and Horizontal Bar charts for sum of cancelled flight from each airlines month wise.

I used color blind palate for better view.

Reference:

https://onlinehelp.tableau.com/current/pro/desktop/en-us/dashboards_create.htm