

Create a Tableau Story

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Summary

In this project I use Flight Dataset to understand the different reasons for delay between many US companies through out the time. I will create a visualization that shows the results.

The result shows that the Departure Delay is the most reason for delay, then the arrival delay. The American Airlines have the highest average distance. the GUM “Guam International Airport” is the highest airport destination with average distance from the top 10. that there are a increase in weather delays in February but the rest of months is air system delay in higher. In chart there are a peak in June and less Arrival delay in September.

Design

First, I joined the flights.csv with airlines.csv, the join type is Inner join. In this dashboard I use one chart to answer what cause the delay. I choose the measure names and measure value to sum the values in the reasons fields. The bar chart is best to show comparisons between categories of data.

I use scatter plot to show the average diverted we average distance for 5 airlines. the scatter plot is one of the best when measuring the correlation between 2 variables.

I use Destination airport to create a treemaps that is used to display hierarchical data using nested rectangles. I filtered it to the top 10, also use the average destination to find the average destination in each airport.

To show the difference between Arrival delay and departure delay months and the other chart for weather delay and air system delay. I filtered the Measure names and create line chart and area chart. the Line graphs can be helpful to compare changes over the same period of time

Feedback

- 1- The captions are not clear.
- 2- the reasons measure's value not specified
- 3- Divert and distant chart is a mass.
- 4- Top 10 for what?!
- 5- there are no titles and filters to show the data distribution.

Final Visualization

- 1- I change the charts type in many chart to get much clear visualization. I choose bar chart to show the reasons for delays and scatter plot to show the average diverted we average distance for 5 airlines. I use colors to refer to the airlines.
- 2- Renamed the X axis
- 3- I wrote the titles and brief captions to describe the findings.
- 4- I showed the filters in charts to help users understand the visualization.
- 5- In some chart I filtered the Measure names and choose the red and blue colors from color blind palette. The red refers to the Arrival delay and blue refers to departure delay. and use color blind palette in scatter plot shapes.

The Tableau Links:

Initial :

[https://public.tableau.com/profile/huda1875 -
!/vizhome/CreateaTableauStory_1/CreateaTableauStory?publish=y
es](https://public.tableau.com/profile/huda1875_-_!/_vizhome/CreateaTableauStory_1/CreateaTableauStory?publish=yes)

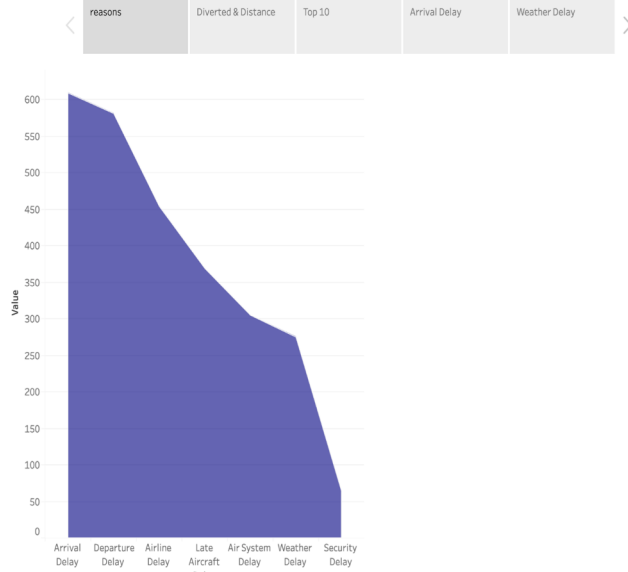
Final:

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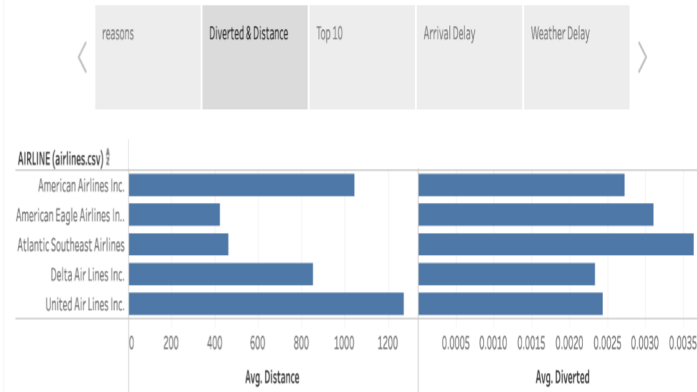
Screenshots

initial

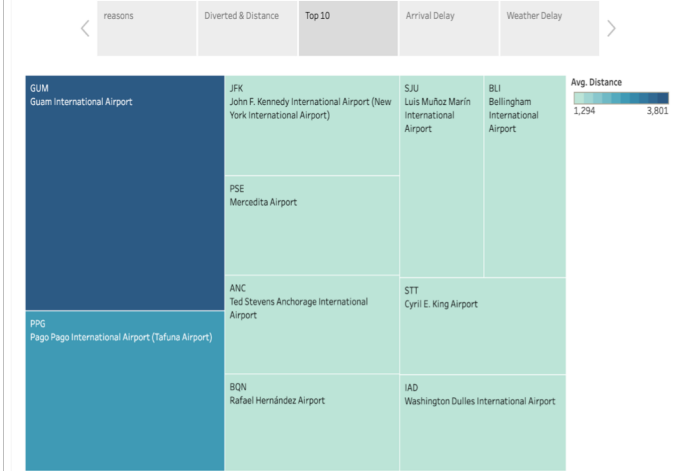
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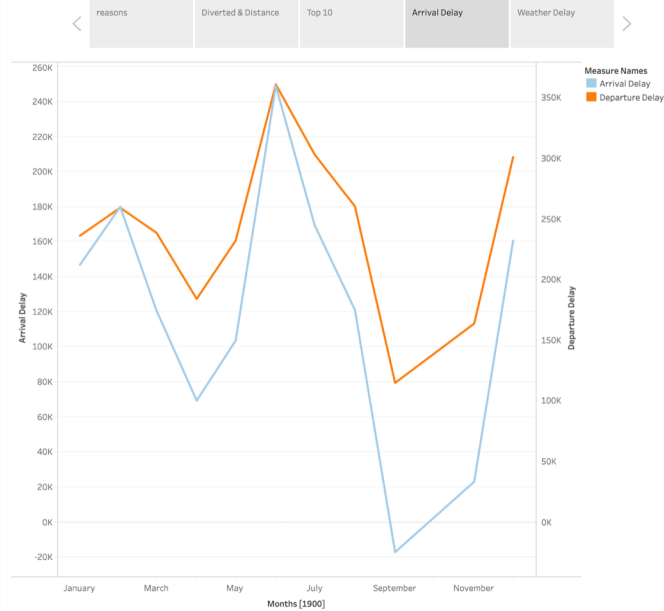
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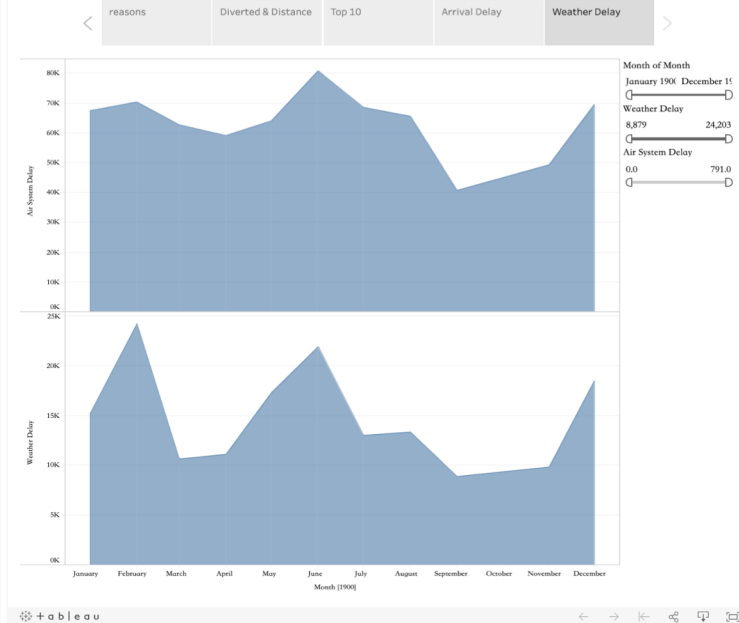
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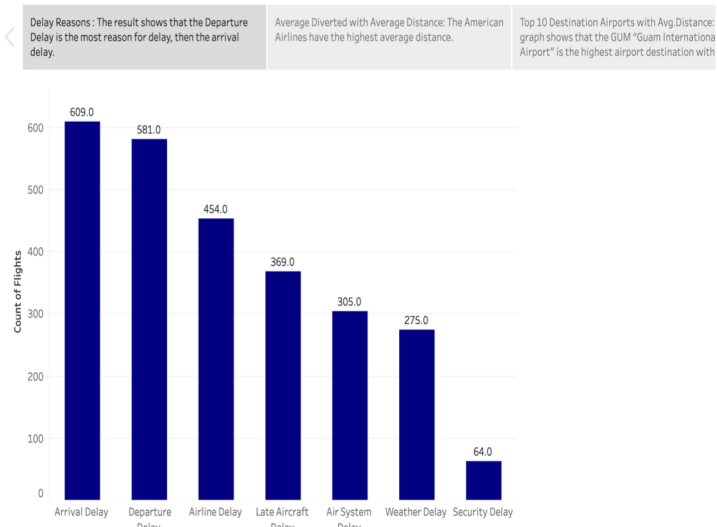


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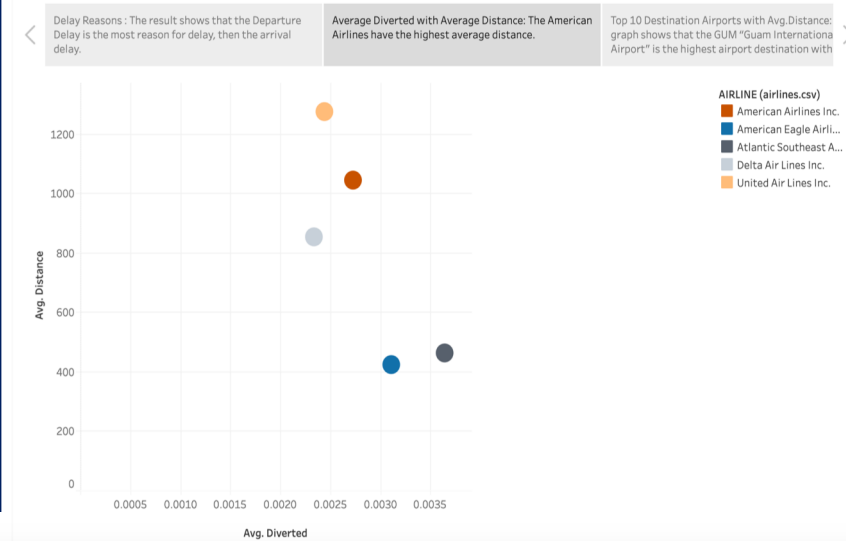


Final

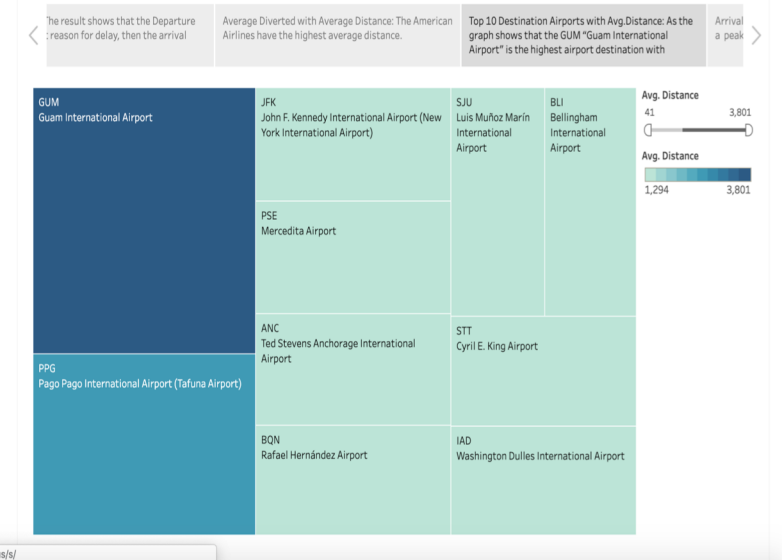
Create a Tableau Story -Final-



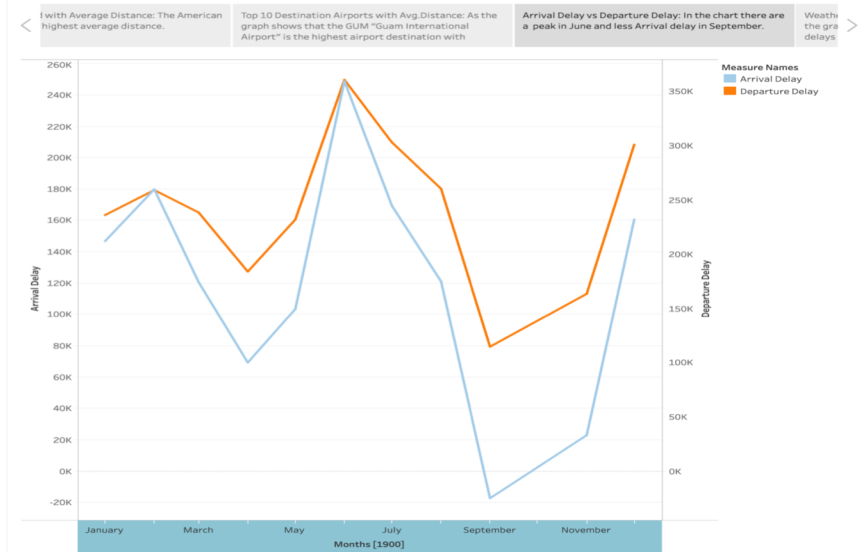
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