Project 4:
Build Data Dashboards

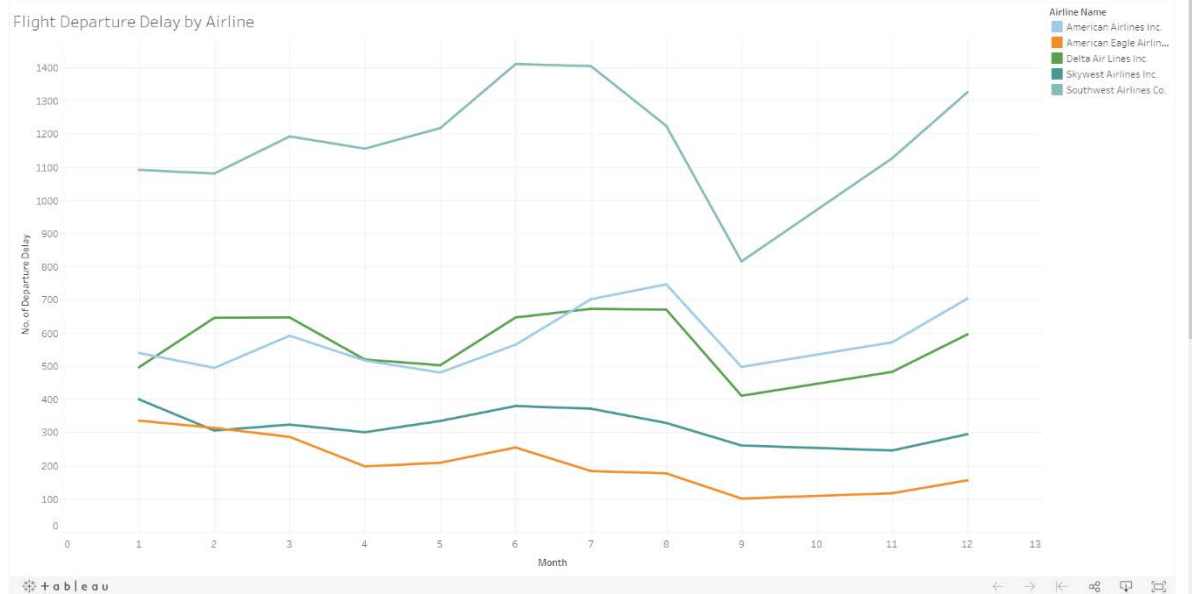19 September 2018

Summary

In this project, I'll create visualizations to reveal insights from the chosen data set, Flight Delays and Cancellations.

Insights 1: Flights Cancellation by State

Link to dashboard:
https://public.tableau.com/profile/emily6902#!/vizhome/FlightCancellationbyState_3/Sheet1?publish=yes

Summary:
Above shows the top 5 flight delay departure by airline. We can see the top airline is Southwest Airline Co across the year. Followed by Delta Air Lines Inc and American Airline Inc.
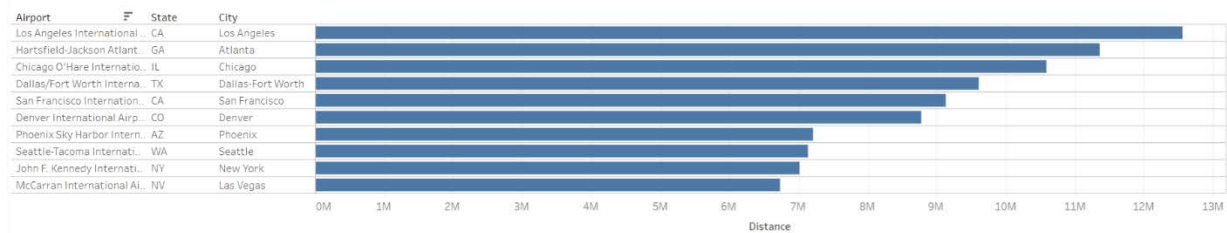
Design:
Have chosen to use the line chart to show the top 5 airline with flight departure delay. In one view, you can easily see the top airline with the highest number of delays across the 12 months. The different airlines are differentiate by the color so it is easier to read.

Resources: N/A

Insights 2: Travelling Distance by Airport

The distribution how far people are travelling?

Airport	State	City	
Los Angeles International ..	CA	Los Angeles	
Hartsfield-Jackson Atlant..	GA	Atlanta	
Chicago O'Hare Internatio..	IL	Chicago	
Dallas/Fort Worth Interna..	TX	Dallas-Fort Worth	
San Francisco Internation..	CA	San Francisco	
Denver International Airp..	CO	Denver	
Phoenix Sky Harbor Intern..	AZ	Phoenix	
Seattle-Tacoma Internati..	WA	Seattle	
John F. Kennedy Internati..	NY	New York	
McCarran International Ai..	NV	Las Vegas	

0M 1M 2M 3M 4M 5M 6M 7M 8M 9M 10M 11M 12M 13M
Distance

Link to dashboard:
https://public.tableau.com/profile/emily6902#!/vizhome/DistributiononTravelDistance/Sheet1
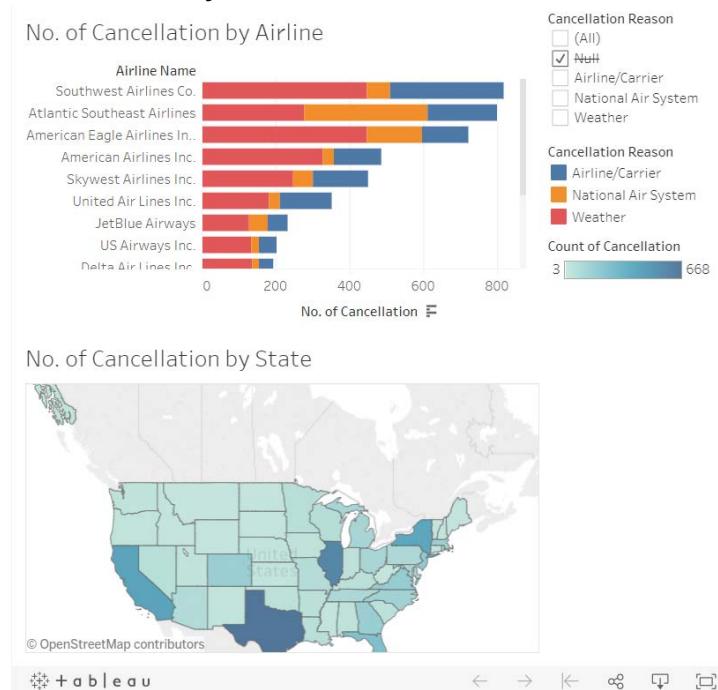
Summary:
Based on the diagram, we can see that the top 10 travelling distance by airport furthest distance travelled is from the Los Angeles International Airport with a distance of 12,554,156, which is the only one more than 12M, the rest are all below 12M. The shortest distance is from Gustavus Airport with a distance of 246.

Design:
Have chosen to use horizontal horizontal bar chart to show the distribution of distance travelled across the different airport. Once again using only one single to avoid distraction and confusion. Have also sort the bars by descending distance travelled so it will be easy to find the longest and shortest distance.

Resources: N/A

Insights 3: No. of Cancellation by Airline and State

Link to dashboard:
https://public.tableau.com/profile/emily6902#!/vizhome/No_ofCancellationbyAirlineandState/Dashboard1?publish=yes

Summary:
Based on the dashboard, we can see that the top cancellation of flight by airline is Southwest Airline Co (818) and Atlantic Southeast Airlines (750). The top reason for Southwest Airline Co's cancellation is Weather and for Atlantic Southeast Airlines is National Air System.

Design:
Have chosen to use the map and stacked bar chart so that from one view, reader can easily see the number of cancellation and reason. With the options to filter by cancellation reasons, we can see the cancellation proportion by airline or state.

Resources: N/A