

FINAL_DELIVERABLE_GROUP12





Presented By:

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Introdcution:

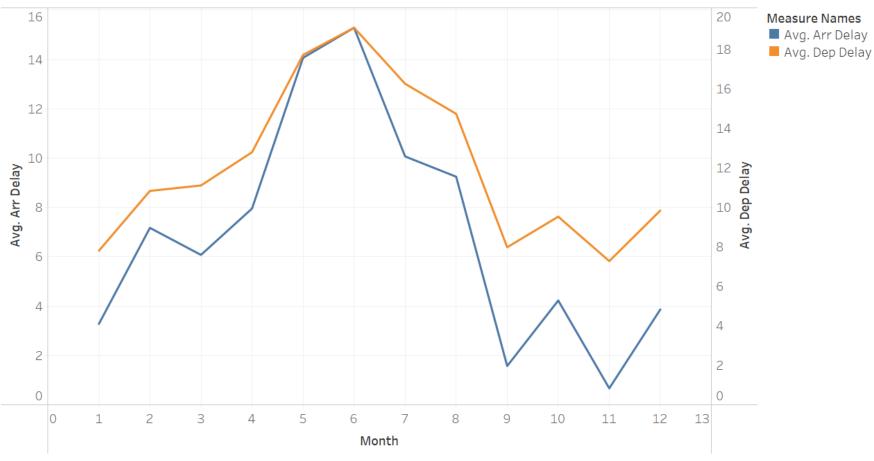
Airline- American Airline (AA):

The world's largest airline that operates a network with almost 6,800 flights and handles more than 500,000 passengers per day to nearly 350 destinations in more than 50 countries.

Performance of the Airlines- AA performance i.e. discussion over the dep and arrival time. Variables such as departure delay can be helpful in explaining on time performance. Departure delay can be shown as the difference between the actual departure time and scheduled departure.

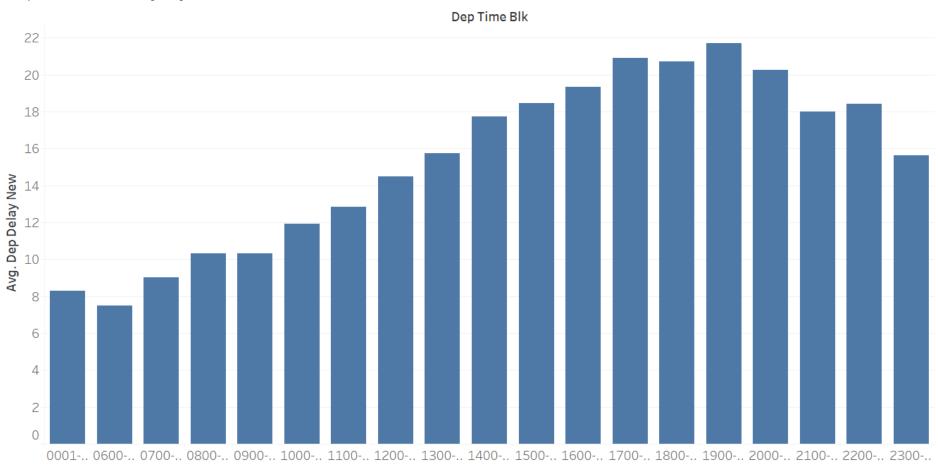
Objectives:

Arrival and Departure Delay by Month



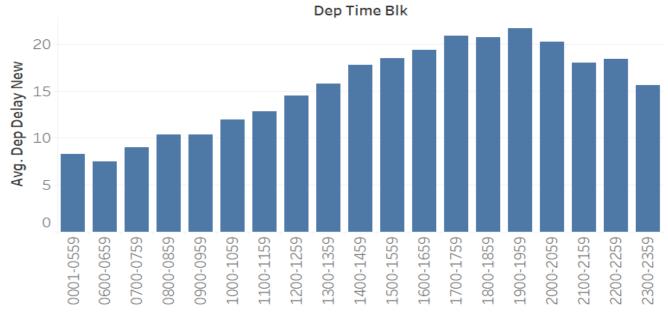
The trends of Avg. Arr Delay and Avg. Dep Delay for Month. Color shows details about Avg. Arr Delay and Avg. Dep Delay. The data is filtered on Op Carrier, which keeps AA.

Departure delay by Time



Average of Dep Delay New for each Dep Time Blk. The data is filtered on Op Unique Carrier, which keeps AA.

Departure delay by Time



Arrival and Departure Delay by Month



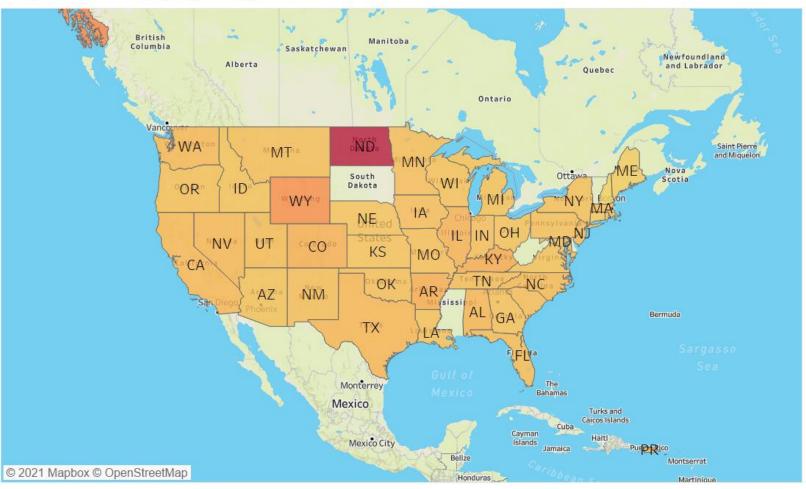
Measure Names

Avg. Arr Delay

Avg. Dep Delay

In the Dashboard, we have looked at the delay times by Month, and time. Most of the flights are delayed during the summer months. This may be because of traffic at the airports due to a large number of operational flights. We notice that for time maximum delay occurs around 7 pm.

Departure Delay by Origin State

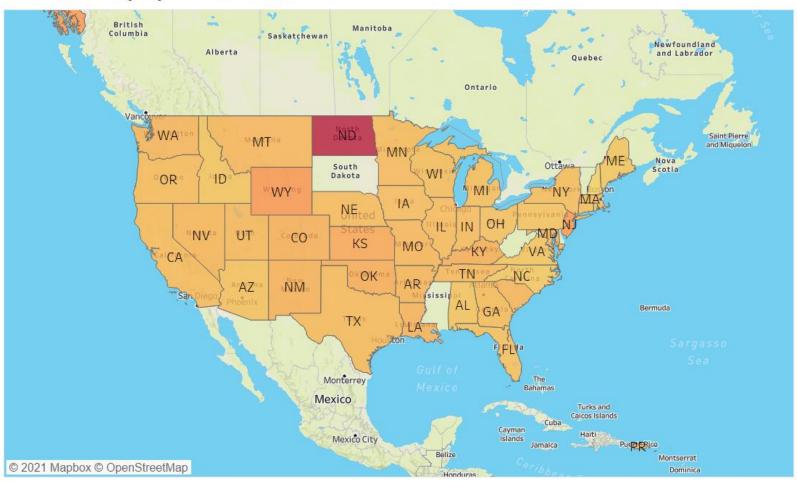


Avg. Dep Delay

0.82 85.92

Map based on Longitude (generated) and Latitude (generated). Color shows average of Dep Delay. The marks are labeled by Origin State Abr. The data is filtered on Op Carrier, which keeps AA.

Arrival Delay by Destination State



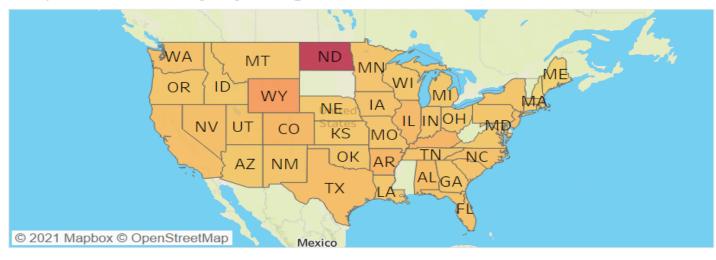
Avg. Arr Delay

63.77

-1.53

Map based on Longitude (generated) and Latitude (generated). Color shows average of Arr Delay. The marks are labeled by Dest State Abr. The data is filtered on Op Carrier, which keeps AA.

Departure Delay by Origin State



Arrival Delay by Destination State



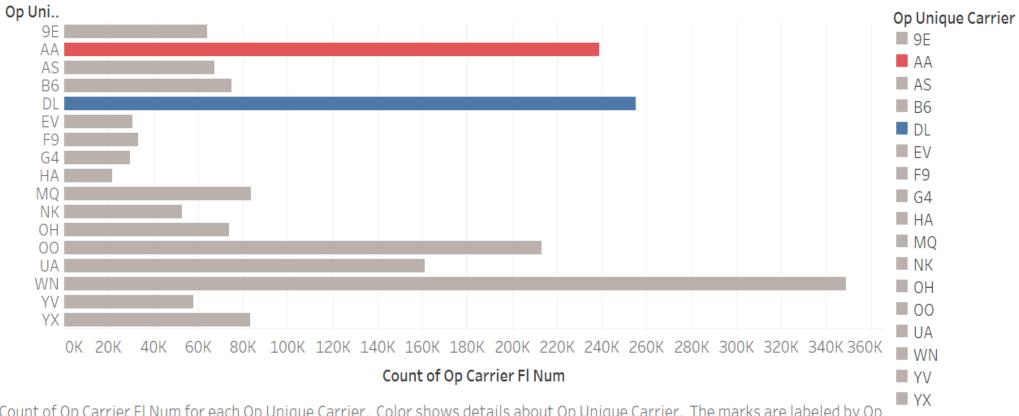
Avg. Dep Delay

0.82	85.92

Avg. Arr Delay

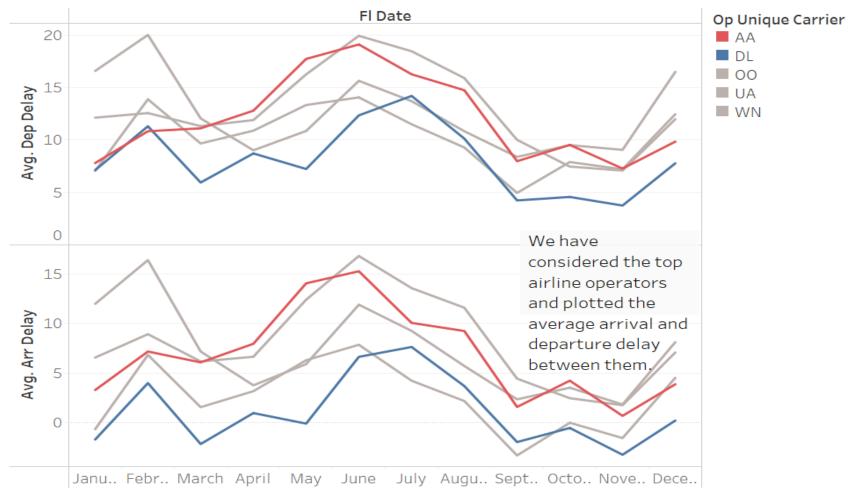
-1.53	63.77

Count of Flights by Quarter- 2



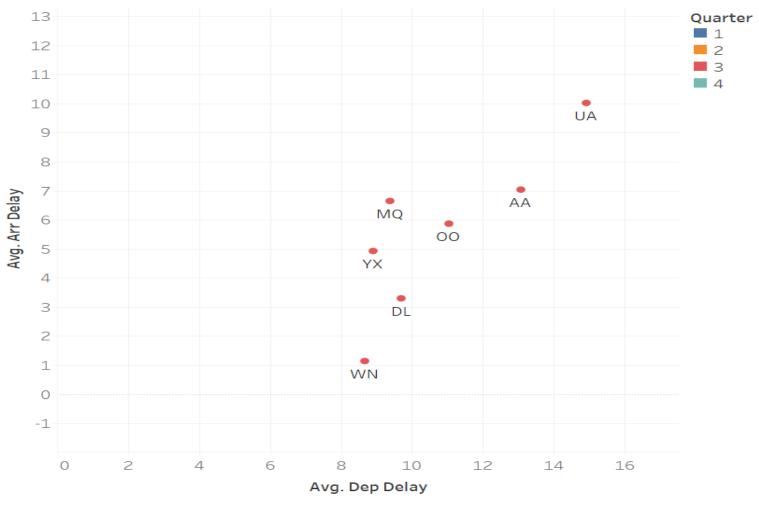
Count of Op Carrier FI Num for each Op Unique Carrier. Color shows details about Op Unique Carrier. The marks are labeled by Op Carrier FI Num.

Arrival and Departure delay of flights



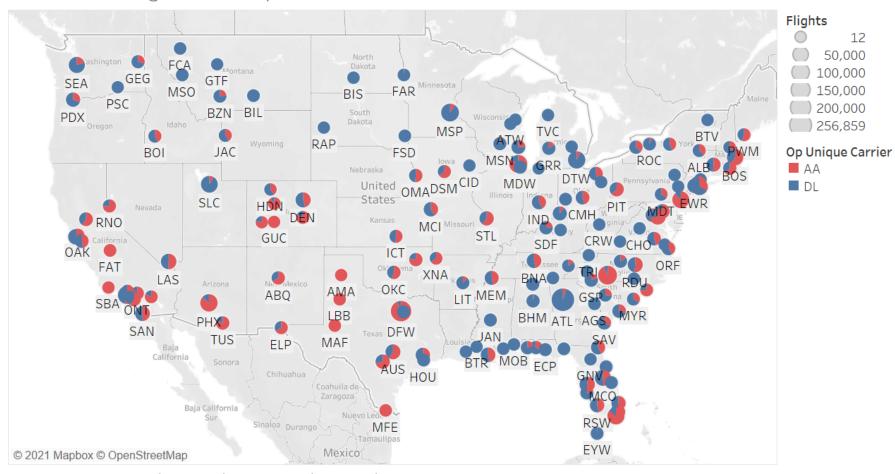
The trends of average of Dep Delay and average of Arr Delay for Fl Date Month. Color shows details about Op Unique Carrier. The view is filtered on Op Unique Carrier, which keeps AA, DL, OO, UA and WN.

Performance of Airlines based on quarter- 3



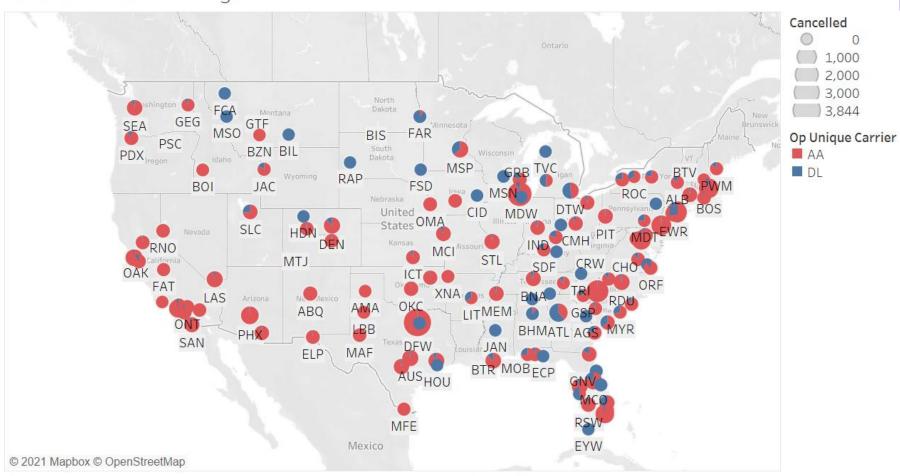
Average of Dep Delay vs. average of Arr Delay. Color shows details about Quarter. The marks are labeled by Op Unique Carrier. The view is filtered on Op Unique Carrier, which keeps 7 of 17 members.

Number Of Flights Per Airport AA and DL



Map based on Longitude (generated) and Latitude (generated). Color shows details about Op Unique Carrier. Size shows sum of Flights. The marks are labeled by Origin. Details are shown for Origin. The view is filtered on Op Unique Carrier and Origin. The Op Unique Carrier filter keeps AA and DL. The Origin filter keeps 161 of 555 members.

AA vs DL Cancelled flights

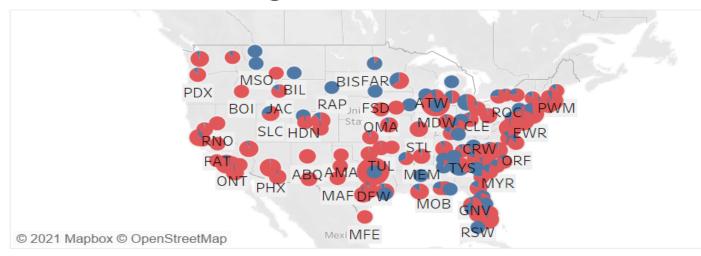


Map based on Longitude (generated) and Latitude (generated). Color shows details about Op Unique Carrier. Size shows sum of Cancelled. The marks are labeled by Origin. Details are shown for Origin. The view is filtered on Op Unique Carrier, which keeps AA and DL.

Number Of Flights Per Airport AA and DL



AA vs DL Cancelled flights



Op Unique Carrier

Op Unique Carrier

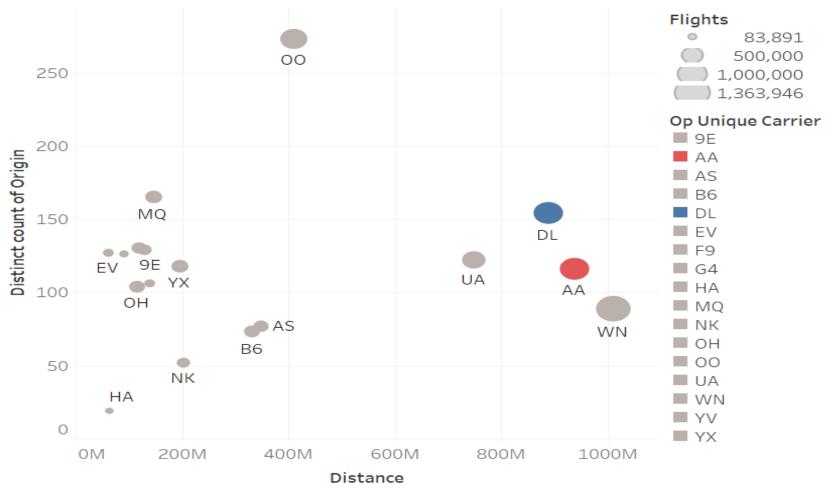
12 50,000 100,000 150,000 200,000 256,859

AA DL

Cancelled

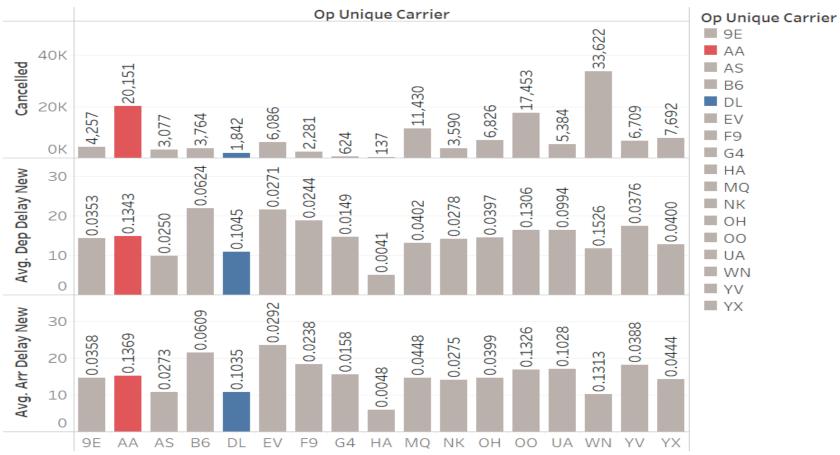


Flight Distance based on Origin City



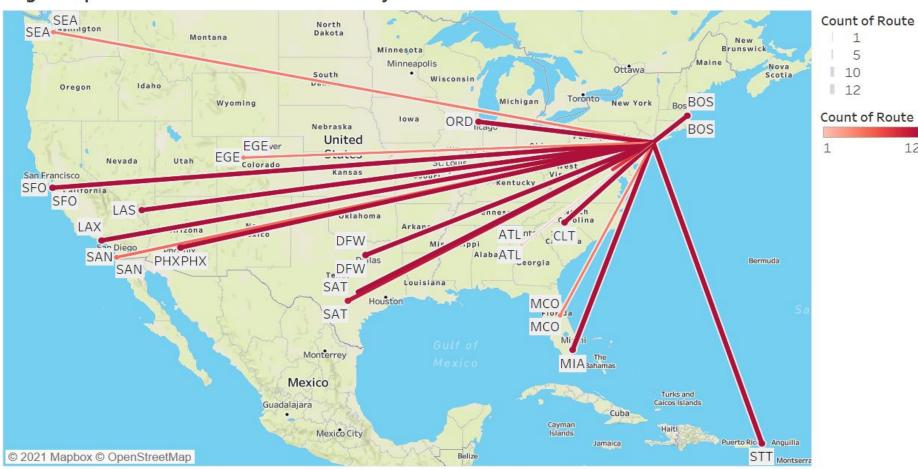
Sum of Distance vs. distinct count of Origin. Color shows details about Op Unique Carrier. Size shows sum of Flights. The marks are labeled by Op Unique Carrier.

Performace of Carriers



Sum of Cancelled, average of Dep Delay New and average of Arr Delay New for each Op Unique Carrier. Color shows details about Op Unique Carrier. For pane Sum of Cancelled: The marks are labeled by sum of Cancelled. For pane Average of Dep Delay New: The marks are labeled by SUM([Dep Delay New]) / TOTAL(SUM([Dep Delay New])). For pane Average of Arr Delay New: The marks are labeled by SUM([Arr Delay New]) / TOTAL(SUM([Arr Delay New])).

Flight map for American Airlines based on City



1

10

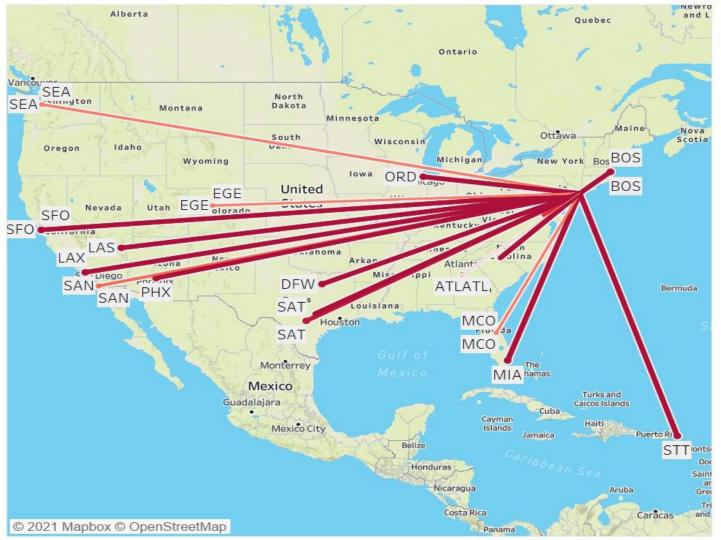
12

5

12

Map based on Longitude (generated) and Latitude (generated). Color shows count of Route. Size shows count of Route. The marks are labeled by Nodes. Details are shown for Nodes and Route. The view is filtered on Route, which has multiple members selected.

Flight map for American Airlines based on City



Route

Contains "JFK"

Type in the orgin flight in the dialog box to display the flight route. Example: ORD, JFK, ABQ

