On Time Performance Analysis of United Airlines

Introduction

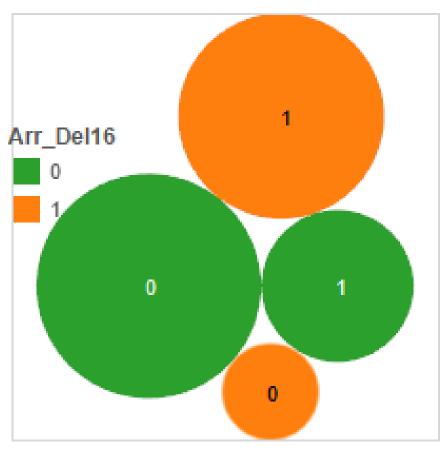
• Visualisations for depictions of patterns between metrics that help explain on-time performance.

 On-Time performance based on several factors like Arrival delay, departure delay, cancellation with respect to time and space.

 Data visualization practices to compare United Airline against the other airlines.

Arrival Vs Departure Delay

No. of UA flights with arrival and departure delay



- Departure Delay Label
- Arrival Delay Colour
- Most of the flights have Arrival & Departure delay

Departure and arrival delay with respect to causes during quarters

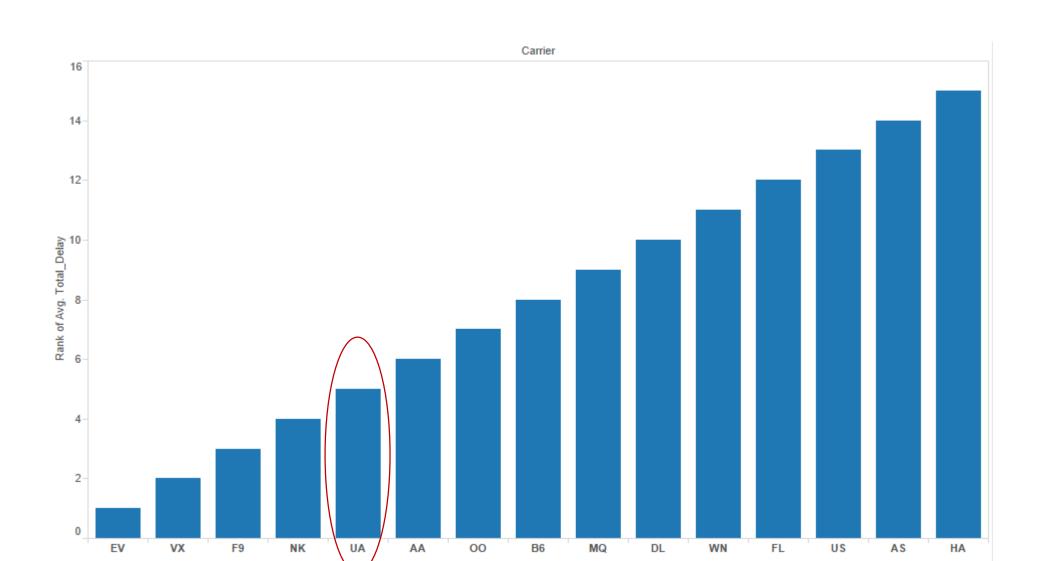
Departure Delay



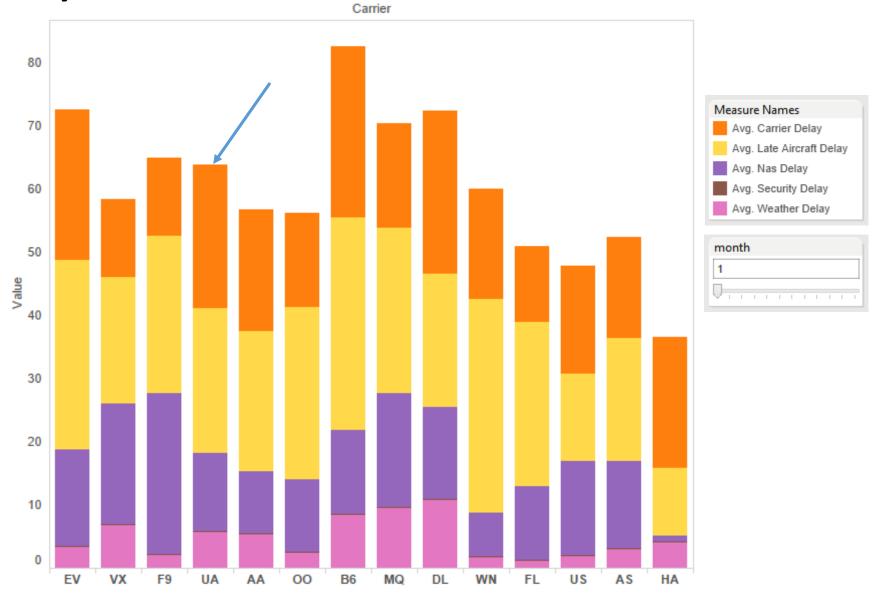
Arrival Delay



Ranking based on Average Total Delay

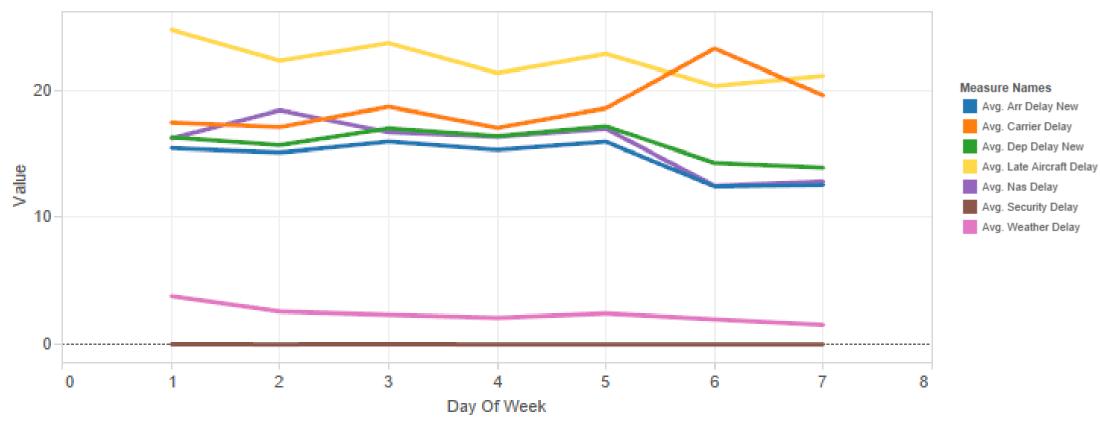


Delay factors for all Airlines With Time



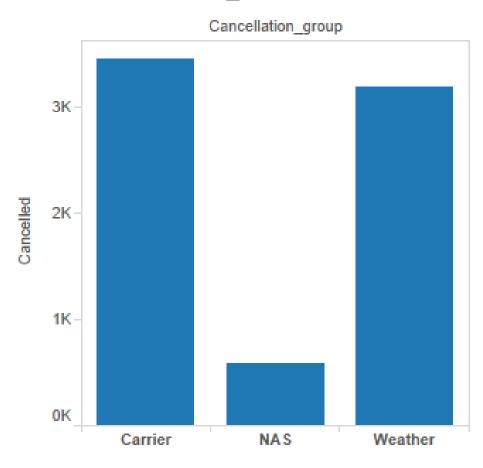
The different delay caused during a week

All Delay_DayofWeek



Cancellation Factors for UA

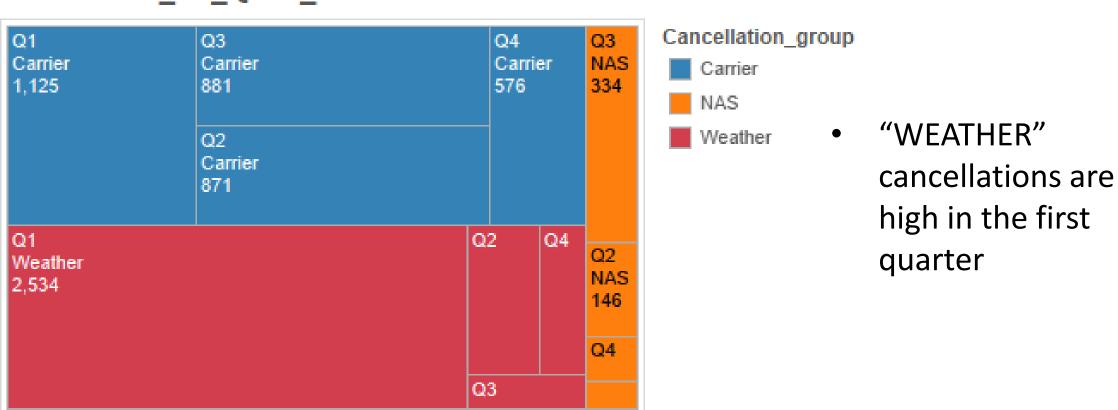
Cancellation Factors_UA



- "Carrier" Cancellations were high
- No "Security" cancellations

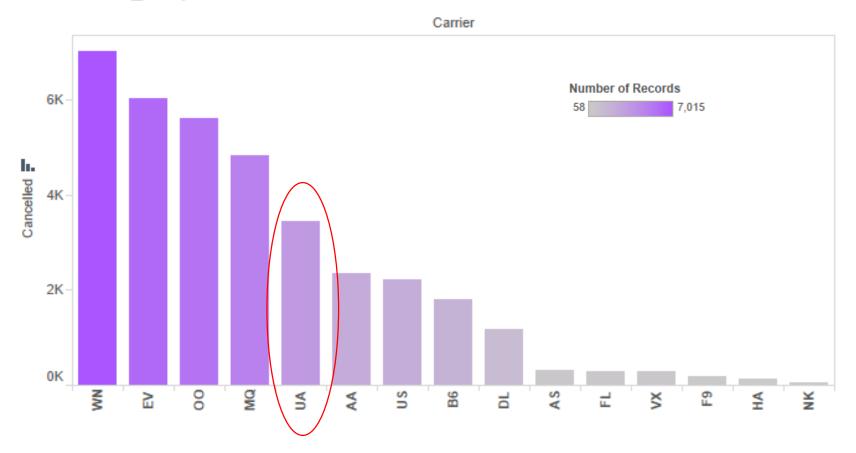
Cancellation Factors during 4 quarters For UA

Cancellation_UA_Quart_Factors



Cancellation Records for all airlines

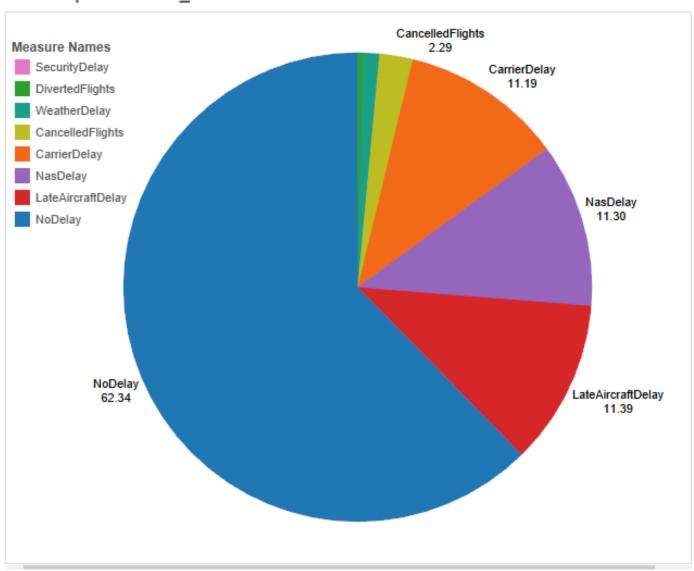
Cancellation_comparison



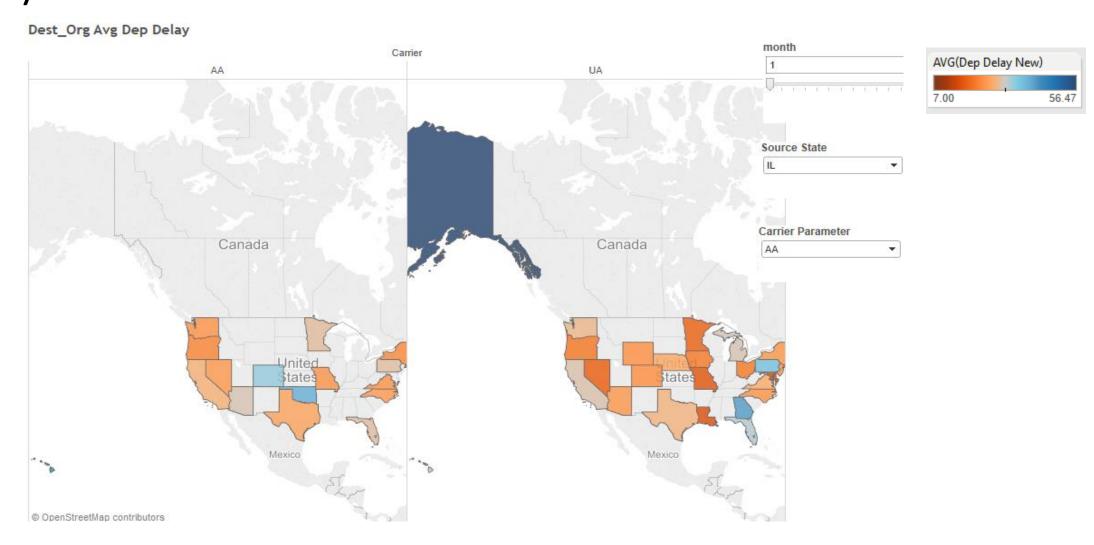
UA stands 5th
in comparison
to other
airlines

On-time performance

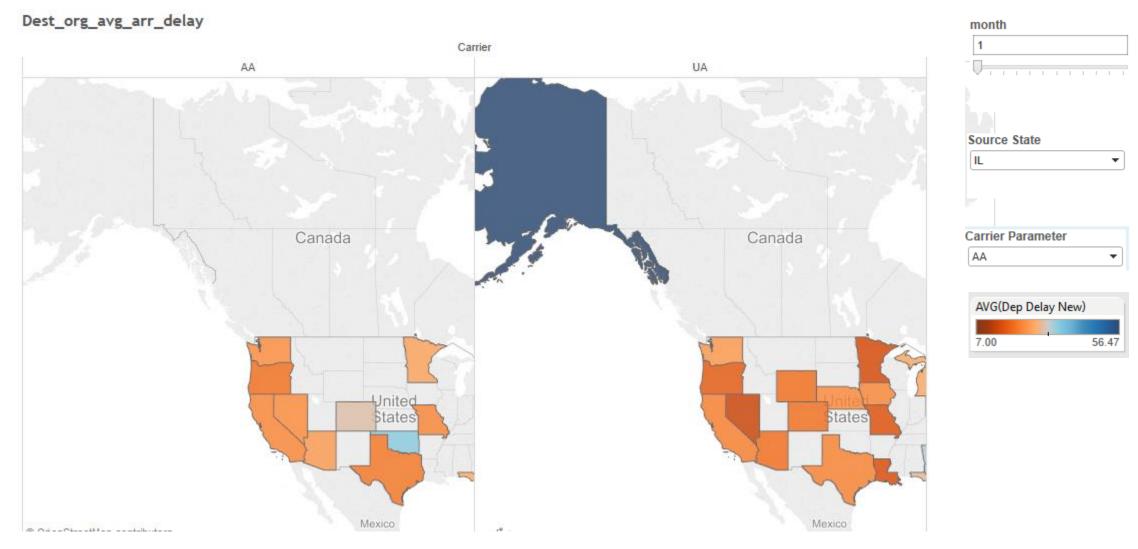
On time performance_UA



Time & Space Incorporated with Departure Delay



Time & Space Incorporated with Arrival Delay



Conclusions & Recommendations