Airport Delay

Origi..

ATL, ORD, DFW, DEN, LAX, IAH, LAS, PHX, SFO, DTW, EWR, JFK, MCO, CLT, LGA, MSP, BWI, MIA, SEA, BOS, PHL, MDW, SLC, FLL, DAL, TPA, HOU, DCA, SAN, IAD, STL, OAK, BNA, PDX, HNL, SMF, CLE

Delays Per Airline

Airline

Arrival Delay

Departure Delay

Airline
(All)

ata Source | Flight Delays | Flight Delays Dashboard | Delays Per Airline | Airport Delay | Delay Measures Per Month | Cancellation Per Airline

arks   3 rows by 14 columns   SUM(Airline Delay): 964,174   Tiara Brunt
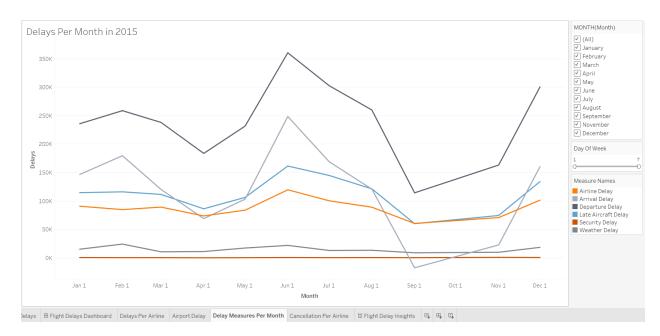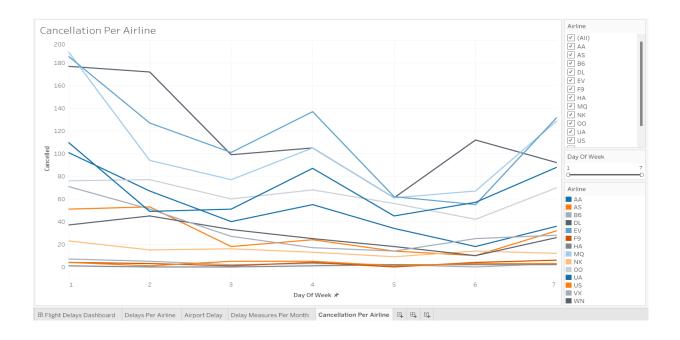
Insight #1: **Which airlines or airports have the worst delays?** According to the dashboard I created, in 2015, the WN (Southwest Airlines Co.) airline seems to have the most delays in arrival delays, departure delays, and airline delays. Filtering the arrival delay chart, WN airline takes the prize for the most delays at 289,992, with EV (Atlantic Southeast Airline) airline in second at 187,908 delays. Filtering the departure delay chart, WN airline has the most delays at 648,419 with UA (United Air Lines Inc.) airline in close second at 360,603 delays. Finally, Southwest Airlines has the most airline delays at 182,670, with AA (American Airlines Inc.) airline coming in second at 131,674 delays. We also see here that the ATL airport experiences the most delays at 64,439 in 2015.

My design choices for this insight include bar charts. I chose this design because I felt it conveyed the insight the clearest. I used the color blindness palette to help differentiate the values in a more meaningful and accessible way. I sorted the airport delay bar chart in order from largest to smallest so that the viewer could see a clear hierarchy. I've also added filters so that if the viewer wanted, they could filter it by month or by airline.

Insight #2: **What causes delays?** It looks like departure delays are the number one cause for flight delays, maintaining a higher number of delays than any other category in the year 2015. It also looks like there is a spike in delays in most categories, mainly in the month of June. The only category that doesn't seem to be affected as much are security delays.

My design choices for this insight include a line chart. I chose this design because I felt it conveyed the insight the clearest. I used the color blindness palette to help differentiate the values in a more meaningful and accessible way. I've added filters so that if the viewer wanted, they could filter it by month, day of the week, or by the array of delay measurements.

Insight #3: **What day of the week has the most cancellations?** It looks like Monday (column 1) experiences the highest volume of flight cancellations. It also displays MQ (American Eagle Airlines Inc.) experiences the most cancellations on Monday at 190 cancellations.

My design choices for this insight include a line chart. I chose this design because I felt it conveyed the insight the clearest. I used the color blindness palette to help differentiate the values in a more meaningful and accessible way. I've added filters so that if the viewer wanted, they could filter it by the day of the week or by airline.

The link to my story of the above insights can be found here, with the filters available: https://public.tableau.com/app/profile/tiara.brunt/viz/UdacityFlightDelayProject_16968122470240/FlightDelayInsights?publish=yes