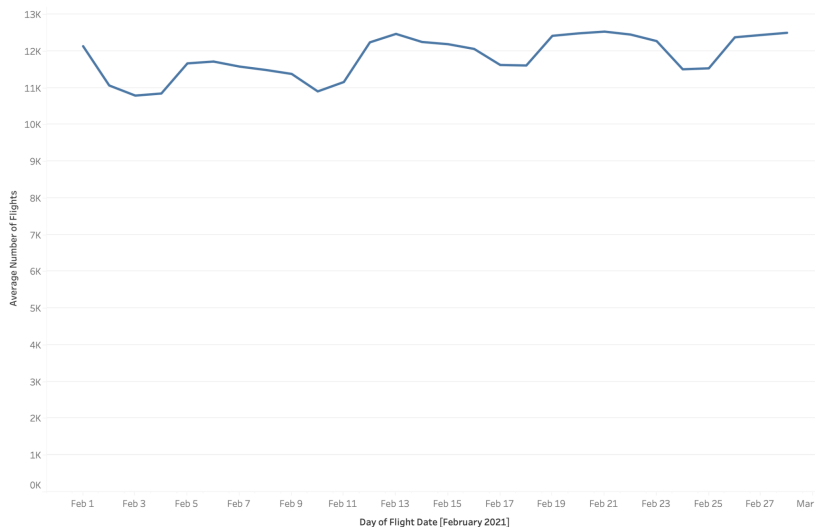


Flight Data Report – February 2021

[SQL Code](#)

1. Daily Flight Numbers

Average Flights Over Previous 3 Days in February 2021

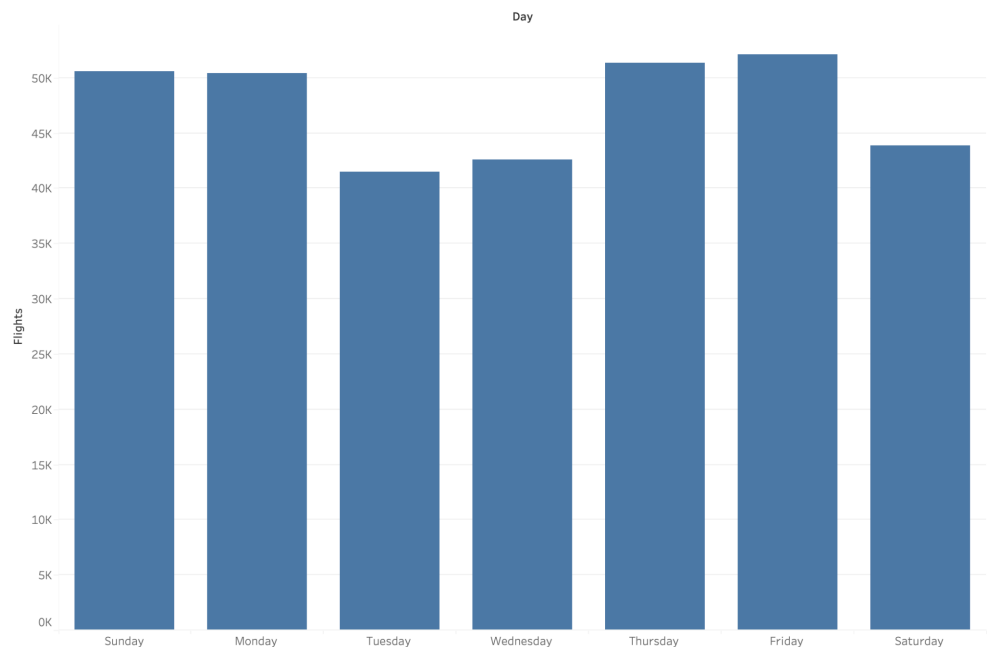


The trend of sum of Avg Flights 3 Days for Flight Date Day.

In February 2021, the number of daily flights remained consistent throughout the entire month with the average hovering around 11k to 12k flights per day. In the figure to the left which shows, for each day in February, the average number of flights from the previous three days we see small peaks and valleys that occur in a cyclical pattern.

The pattern is likely related to there being different numbers of flights on different days of the week. In the figure to the right we see that Sunday, Monday, Thursday and Friday all had around 50k flights in February while Tuesday, Wednesday, and Saturday had fewer daily flights.

Total Flights on Each Day of the Week

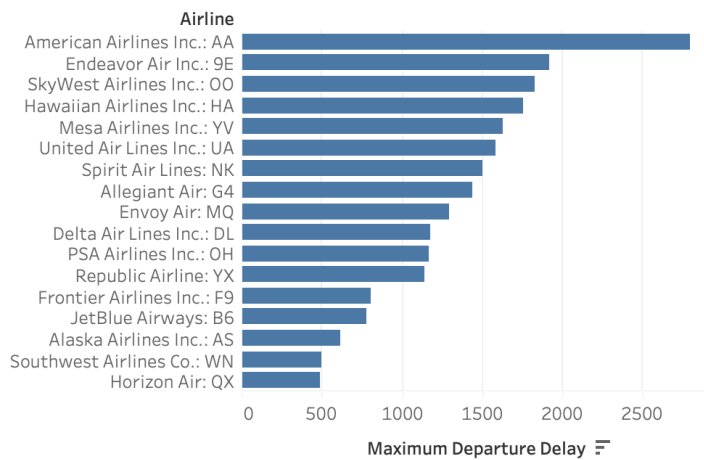


Sum of Flights for each Day.

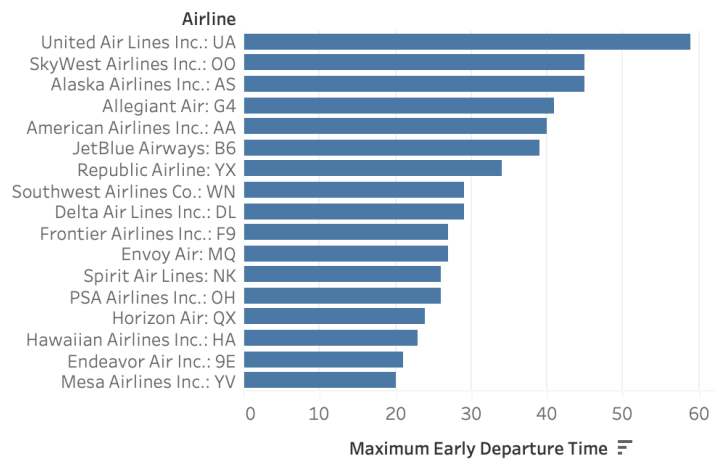
2. Flight Delays

When looking at the flight delays for each airline we see that American Airlines had the longest departure delay in the month of February by a large amount. Endeavor Air and SkyWest Airlines rounded out the top three for departure delays. In terms of the maximum early departure time, United Airlines had the earliest early departure followed by SkyWest Airlines and Alaska Airlines.

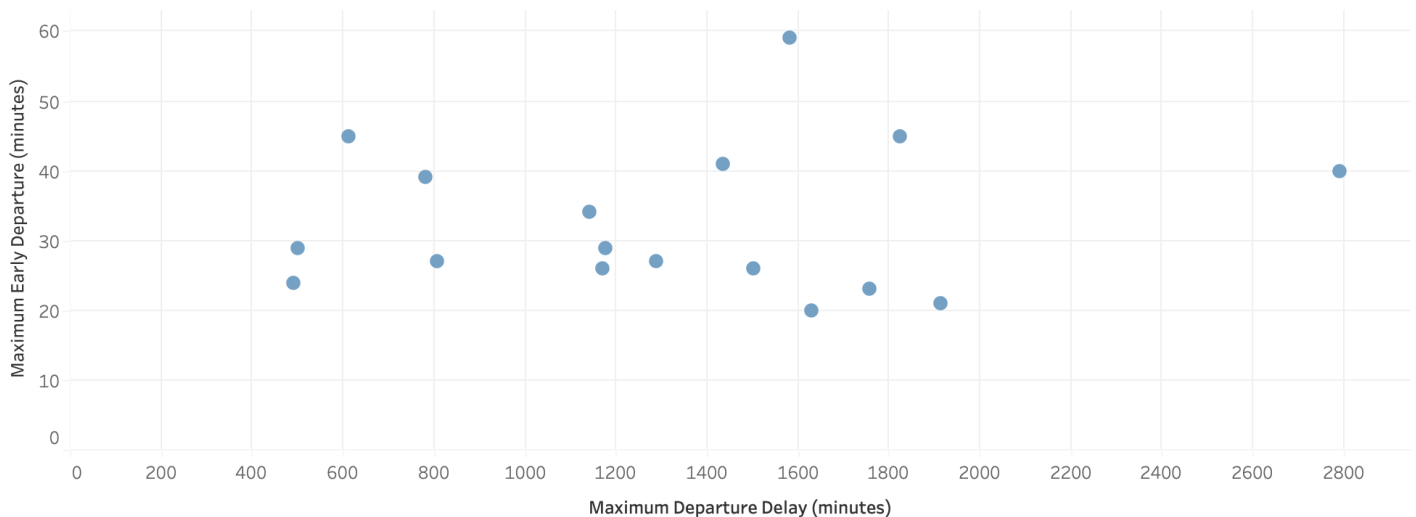
Departure Time Delays



Maximum Early Departure Time



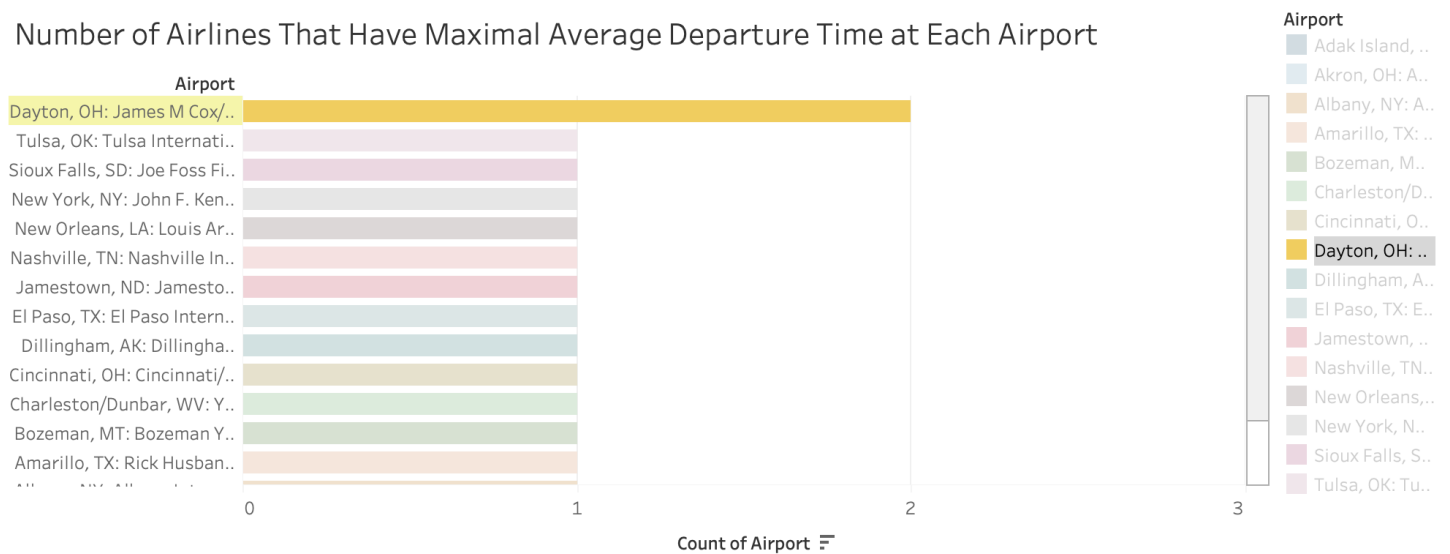
Maximum Departure Delay and Early Departure Time by Airline



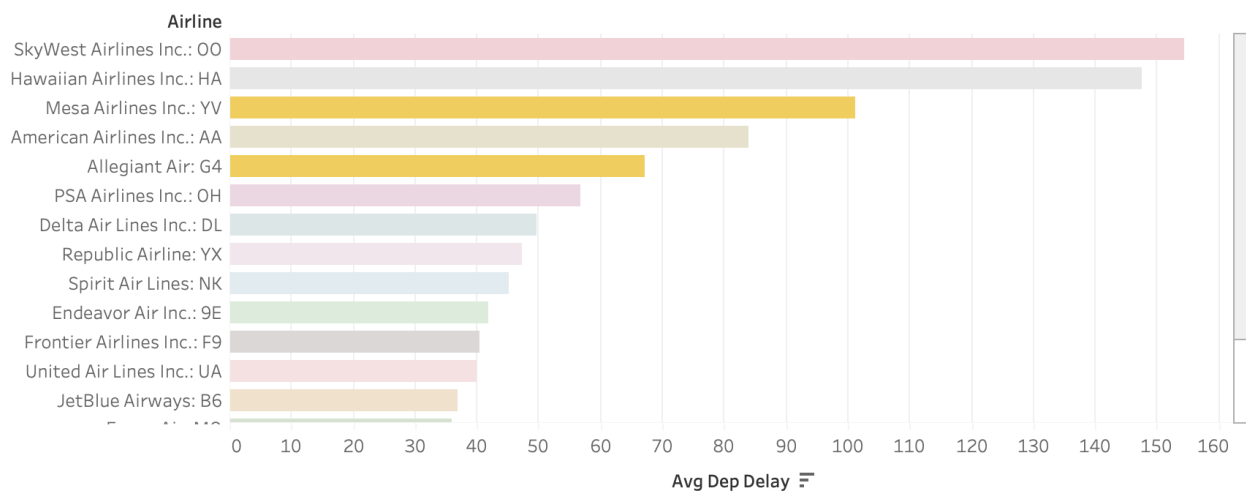
There did not seem to be any relationship between length of longest departure delay and length of earliest early departure.

To see if any specific airports consistently have the longest departure delays for many airlines we can look at the below bar chart showing how many airlines had their highest average departure time at each airport.

Number of Airlines That Have Maximal Average Departure Time at Each Airport



Maximum Average Departure Delay at Airport with Highest Average Departure

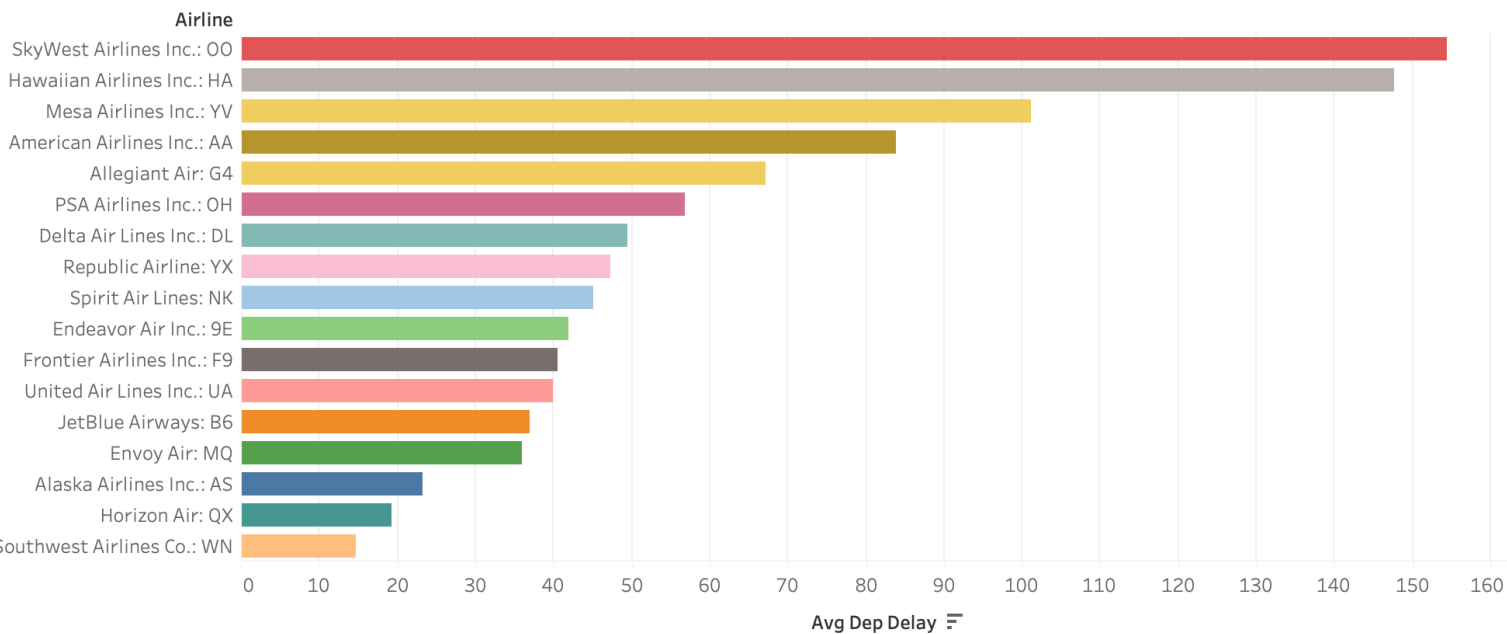


The only airport that had more than one airline was the James M Cox Airport in Dayton, Ohio. The two airlines that had their highest average departure delay times in Dayton were Mesa Airlines and Allegiant Air.

The airport with the highest average departure delay across all airlines and flights was the Jamestown Regional Airport in Jamestown, North Dakota with an average delay of 154.5 minutes.



Maximum Average Departure Delay at Airport with Highest Average Departure

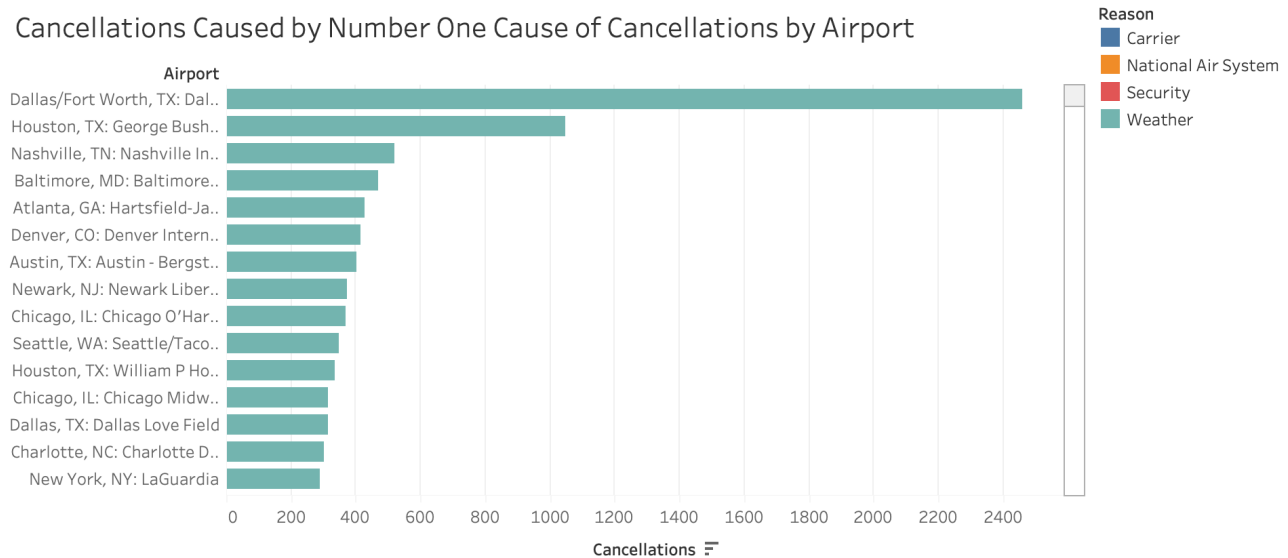


At Jamestown Regional Airport, SkyWest Airlines had its highest average departure delay of any airport in the month of February.

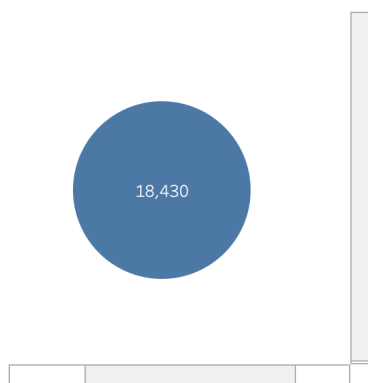
3. Cancellations

In February 2021 there were 18,430 cancelled flights. At the vast majority of airports the number one reason for cancellations was weather.

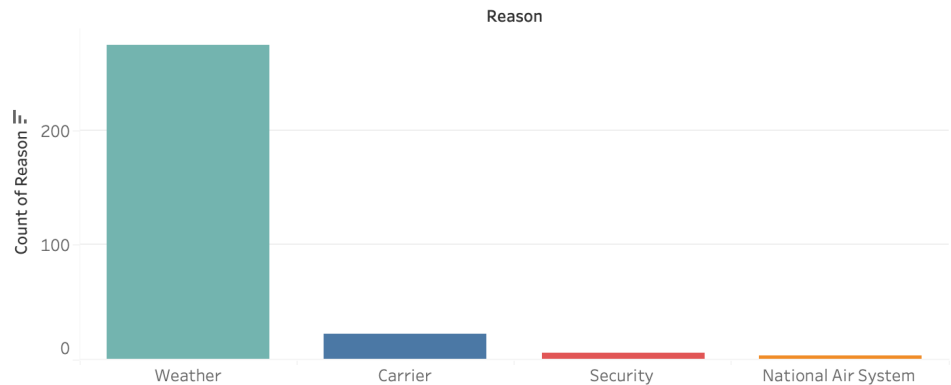
Cancellations Caused by Number One Cause of Cancellations by Airport



Number of Cancellations
In February 2021



Most Common Reasons for Flight Cancellations by Airport



Two airports in Texas (Dallas and Houston) had the highest number of cancellations out of all airports. In February 2021, Texas experienced record low temperatures as well as snow and ice that may have contributed to these numbers. Rounding out the top five airports with the highest number of cancellations were Nashville, Baltimore, and Atlanta.