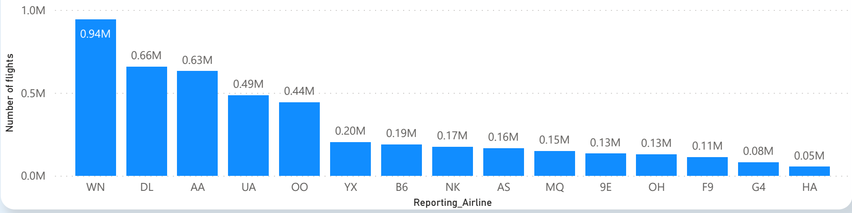
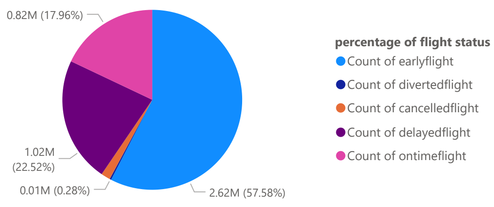
Flight Delay Analytical Tracker

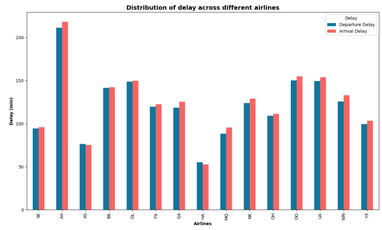
We found that Caribbean Airlines Limited (WIN), Delta Airlines (DL) and American Airlines (AA) accounts for approx 50% of the flights being flown in last 8 months



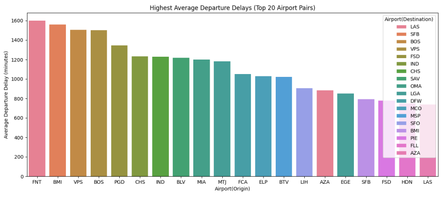
We found that around 60% of the flights were early and 18% of the flights were on time. But we found that around 22% of the flights were late which is a significant loss in airline industry. Around less than 1% of the flights were also cancelled..

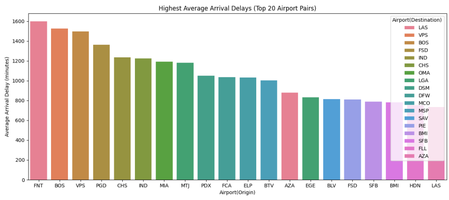


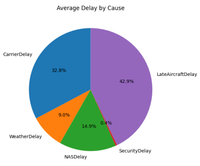
From the below visual we find that American Airlines (AA) is a low cost American airlines have been causing highest duration of delays with respect to other airlines

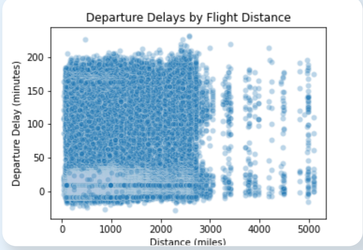


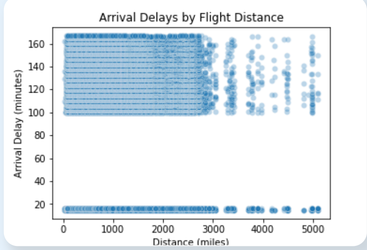
Airports that experience consistently higher delays





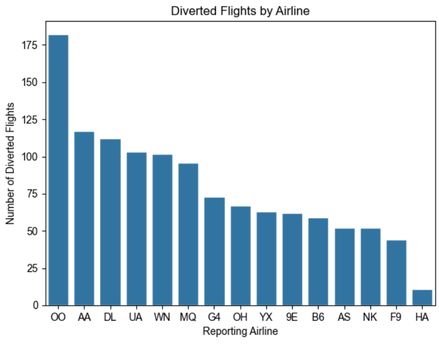


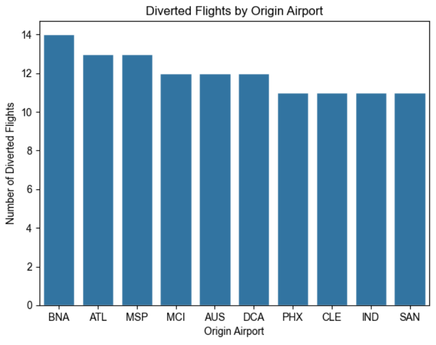




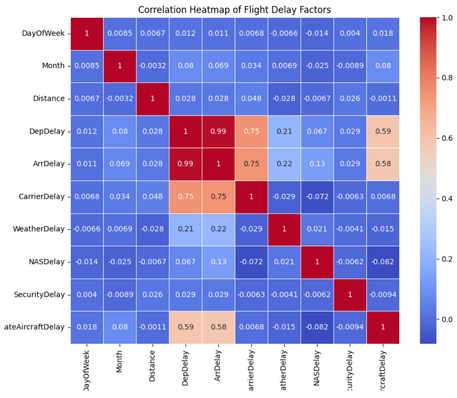
From above scatter plot we observe that Shorter distance flights are having more delays as compared to long haul flights

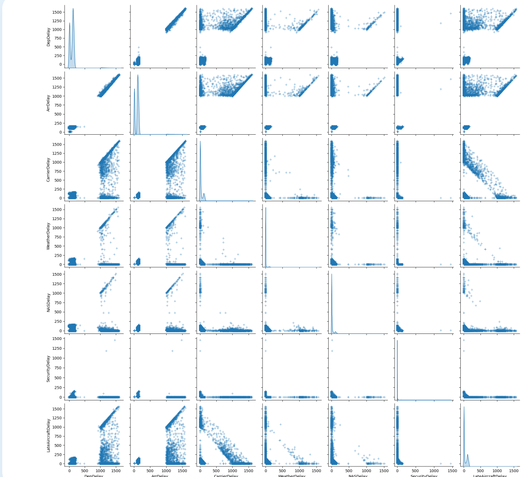
SkyWest Airlines (OO) and American Airline (AA) had the highest number of flight diversions. Nashville International International Airport (BNA) had the highest number of flight diversions. Denver Airport although is not considered to the be the buisiest airport. But steps needs to be taken to mitigate the diversion issue.





From the below correlation matrix, it is found that Carrier delay and Late aircraft delay as strongly correlated with arrival delay and departure delay. Distance is loosely correlated factor.





Weather (Cancellation - B) has caused highest number of cancellations followed by Carrier (Cancellation - A). We can also see that there was some cancellation due to security reasons (Cancellation - D). Some delays were also caused by National Air System (NAS) (Cancellation -C).