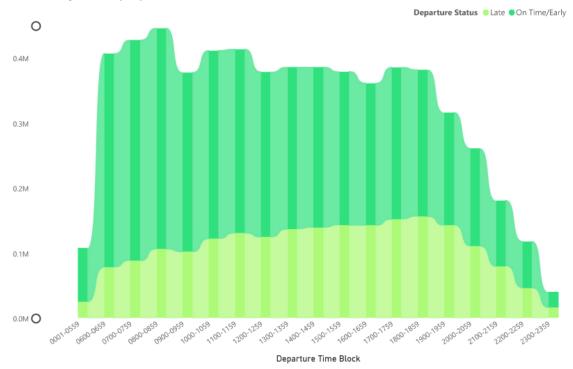
Exploratory Data Analysis Storm Troopers

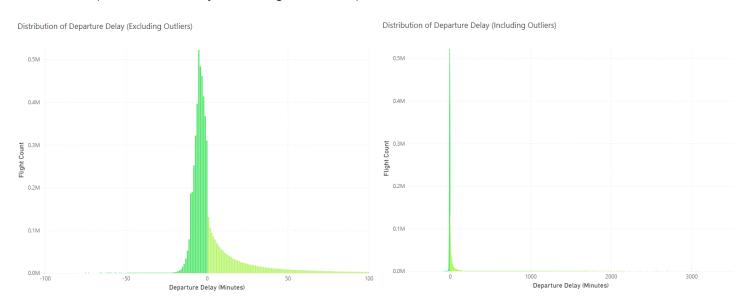
1. Exploring Departed Flight Data

- Daily Flight Patterns

(2021) Total Flight Count by Departure Status Over 24 Hour Window



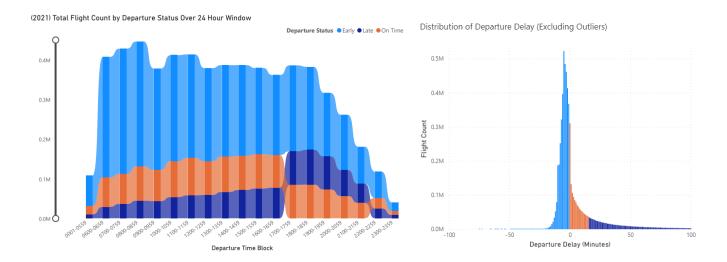
- In total, there were more on-time/early flights (4,139,345) than late flights (2,046,525).
- The time block with the largest divergence in on-time/early flights and late flights was 0700-0759 (252,404 more early/on-time flights than late)

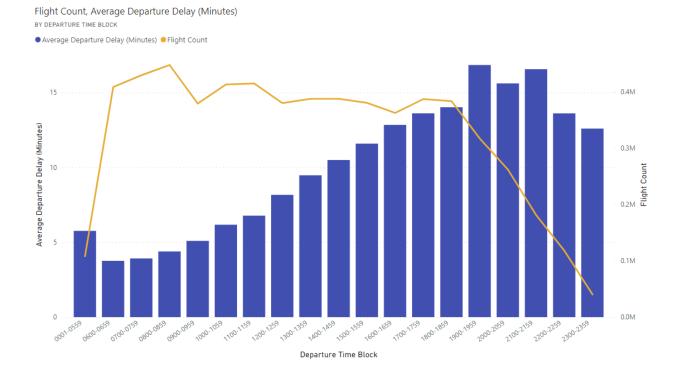


OFFICIAL Departure Status Classification:

** Flights less than 15 minutes late are classified as on time

Min < Dep_Delay < 0	Early
0 <= Dep_Delay <= 15	On-Time
15 < Dep_Delay	Late

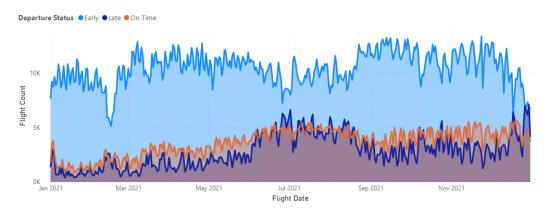




Annual flight patterns

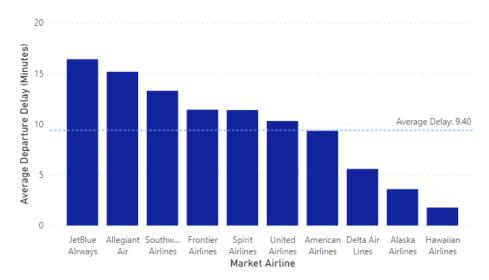


Flight Count by Departure Status and Date



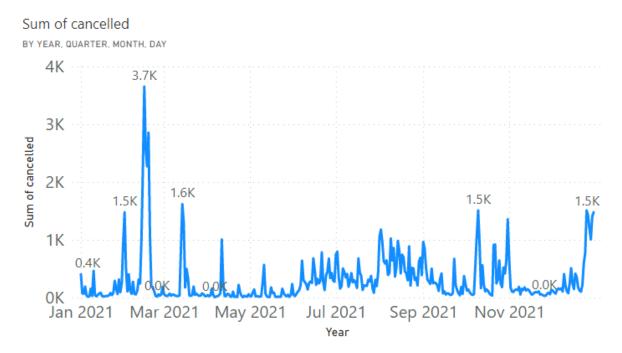
Delays by (Market) Airline

Average Departure Delay (Minutes) by Airline

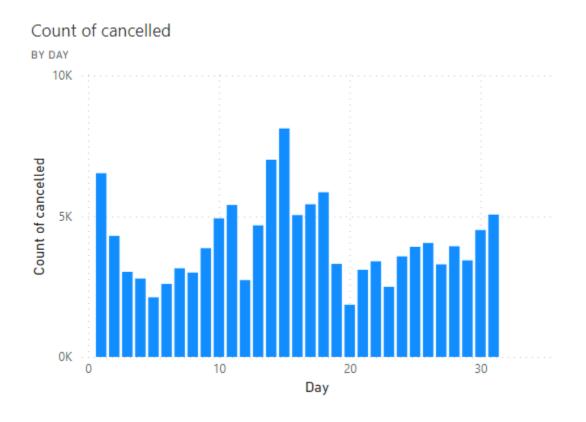


2. Exploring Canceled Flight Data

Count of canceled flights throughout the course of 2021



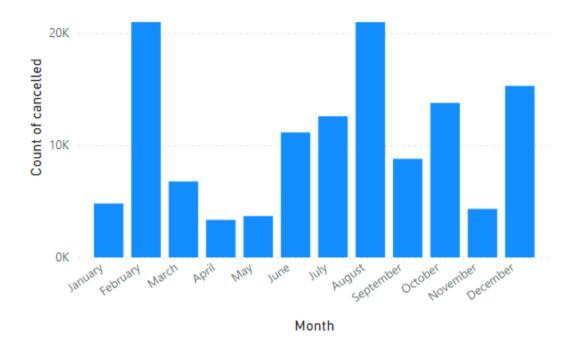
Count of canceled flights by day of the month



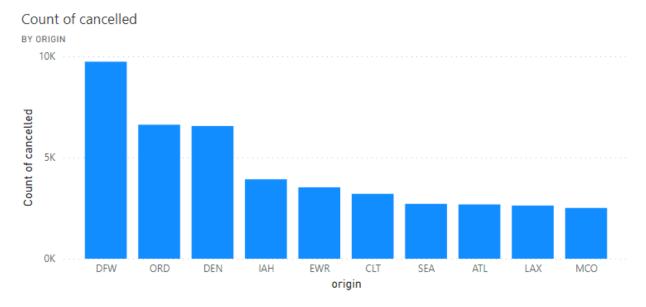
Count of canceled flights by month

Count of cancelled

BY MONTH

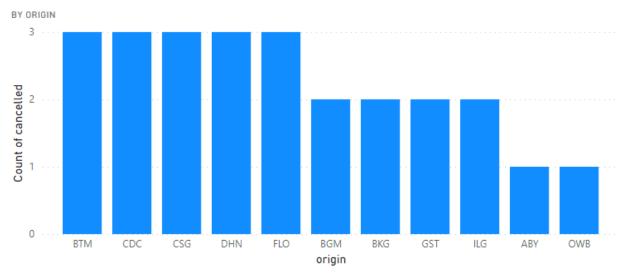


Top 10 count of canceled flights by origin:

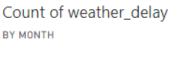


Bottom 10 count of canceled flights by origin:

Count of cancelled



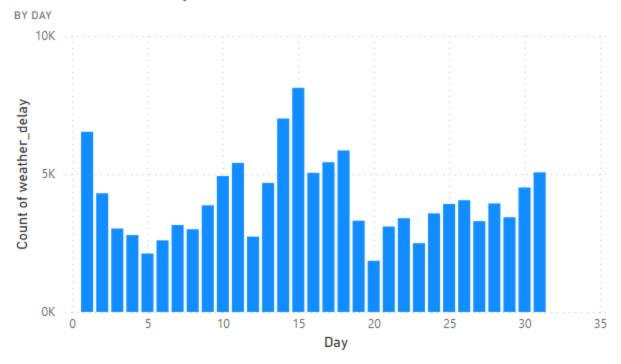
Count of weather delay by month



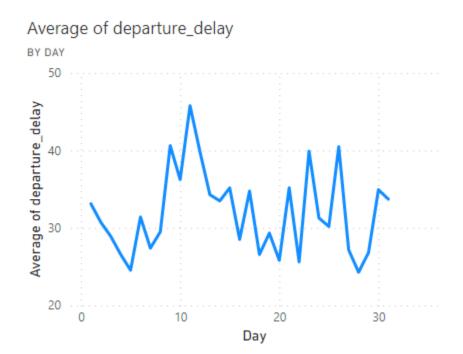


Count of weather delay by day of month:

Count of weather_delay



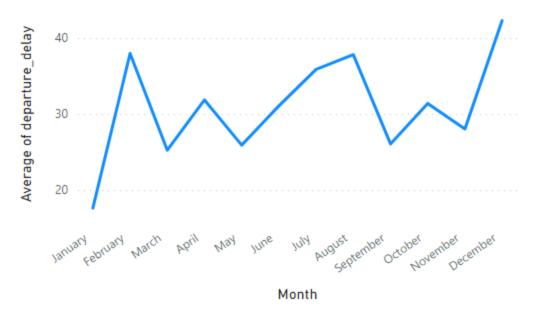
Average departure delay by day in minutes:



Average departure delay in minutes by month:

Average of departure_delay

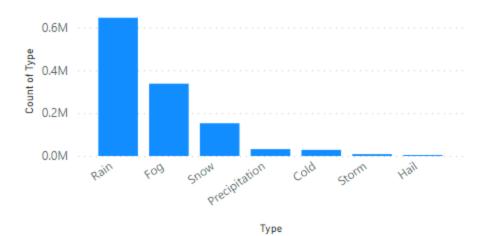
ву монтн



3. Exploring Weather Data

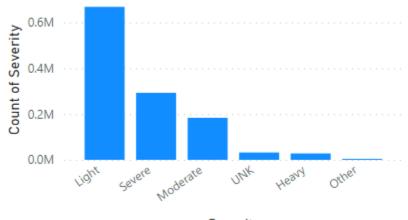
Count of Type

BY TYPE



Count of Severity

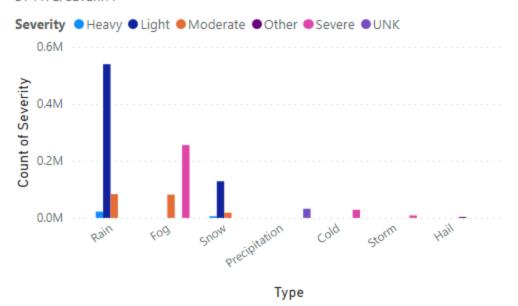
BY SEVERITY



Severity

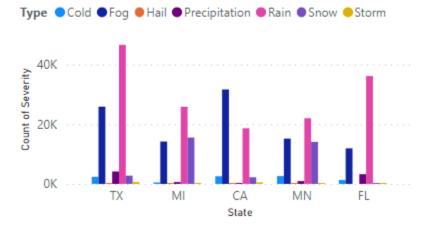
Count of Severity

BY TYPE, SEVERITY



Count of Severity

BY STATE, TYPE

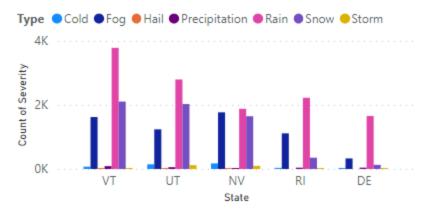


top 5 states by count of

severity

Count of Severity

BY STATE, TYPE



Open in Power BI

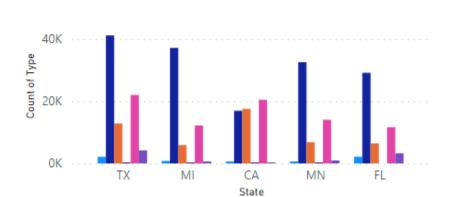
weater eda Data as of 1/24/23, 4:15 PM

Filtered by **State** (bottom 5 by Count of Severity)

bottom 5 states by count of severity

Count of Type

BY SEVERITY, STATE



Severity ● Heavy ● Light ● Moderate ● Other ● Severe ● UNK

of type of weather

top 5 states by count

Count of Type BY STATE, SEVERITY Severity Heavy Light Moderate Other Severe UNK 6K 0K VT UT NV RI DE bottom 5 states

by count of type of weather

4. Exploring Full Data

Departed flights descriptive statistics

https://drive.google.com/file/d/1vZk_DdwNFR-pLtXcjrFtFWmS1nsi3fu8/view?usp=sharing