The dataset is a publicly available data from Department of Transportation detailing the on-time performance of US airlines for the month of August 2022.

Definition: A flight is considered departure delay when Dep Delay column records <u>more</u> than 0 minutes with each number representing how many minutes a flight is early or late. Vis-à-vis for arrival delay.

Please use the provided dataset (but not limited to) to offer insights for the operations performance of various airlines. **Please note that to be considered for the position, the visualizations will have to be in Tableau.**

1/. Daily trend of how different airlines perform in terms of on-time departures and cancellations.

   a). Trend rate of departure delays per flight flown.

   b). Trend rate of cancellations per flight.

   c). Trend rate of departure delay minutes per delayed flight flown.

2/. Comparing two Texas city hubs, United's operations at George Bush Intercontinental Airport & American's at DFW: a). compare each airline's flights' departure delays on shorter routes (distance <=500nm) vs longer (>500nm). b). What time of day and day of week do we see more departure delays?

3/. Top and bottom 5 on-time departure performing airports for each regional airline. Any problem-child aircrafts that consistently underperform?

Extra 4/. Daily trend of how AA performs vs other airlines combined at our hubs

   a). Trend rate of departure delay per flight flown.

   b). Trend rate of cancellation per flight.

   c). Trend rate of departure delay minutes per delayed flight flown.

Extra 5/. Situation challenge:

   a). I am a business traveler and I want to take a direct flight to make sure I get to NYC on-time for my meetings. I am willing to fly any airline and I can fly out of either airport in Dallas-Fort Worth metro area. What top 5 options do I have for a Tuesday morning flight?

   b). Expand the options above to account for travel analysis between any two cities with user inputs.

Extra points on any meaningful additional insight/viz/feature you'd like to add.

Link to the dataset:
https://docs.google.com/spreadsheets/d/1JRMy7hh9s14YS5wmRO0anKQ4u2sn5zc7/edit?usp=sharing&ouid=102979264305411939125&rtpof=true&sd=true