Using data from the Open Sky Network's covid dataset, I will create visualizations that show the effect that the covid-19 pandemic has had on flight volume in the busiest airports across the world.

Because this is a very large dataset, the data will be stored in a Snowflake warehouse after it is cleaned in a jupyter notebook, and DBT will be used to query the dataset and pull the smaller datasets used to create my visuals. These tables will be sent back to Snowflake, where I can pull them into my visualization jupyter notebook to actually create the plots. I could probably use the visualization tools in Snowflake, but I have more familiarity with pyplot and kepler in jupyter, so that's what I will be using.

In addition to plotting the flight volume over time for various airports, I will also use the live API to show current positions of aircraft in a kepler visualization. Without access to the full historical dataset (which is not available to the public), there's not a lot of utility to this, but it can be used to find the location of a specific aircraft of interest.

A second kepler visual will show departing aircraft over time using data from the covid dataset, which contains flight data from January 2019 - March 2022. This one will require an extraordinarily high number of rows of data (there are nearly 90 million) and I'm not entirely sure I'll be able to run it. I will make an attempt, at least.