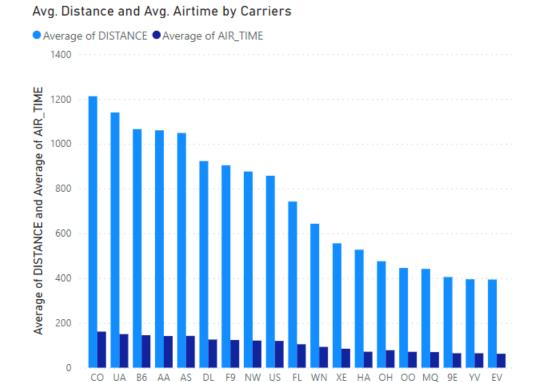
GROUP-7

Members: Ritesh Sengar Shravan Honade Nikhil Patil Dhananjay Ghate

EDA



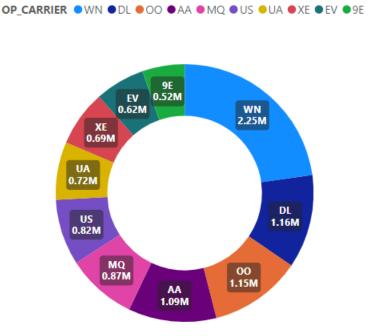
Here are some additional observations from the graph:

Low-cost carriers (LCCs) such as Southwest Airlines (WN) and Spirit Airlines
(NK) tend to have shorter average distances and shorter average airtimes than
traditional carriers such as United Airlines (UA) and Delta Air Lines (DL). This is
because LCCs typically operate shorter flights.

OP_CARRIER

- Regional airlines such as Envoy Air (EV) and Piedmont Airlines (PI) tend to have shorter average distances and shorter average airtimes than major airlines. This is because regional airlines typically operate shorter flights to smaller airports.
- Charter airlines such as NetJets (XE) and Flexjet (HA) tend to have longer average distances and longer average airlines than commercial airlines. This is because charter airlines typically operate flights to and from smaller airports and private airstrips.





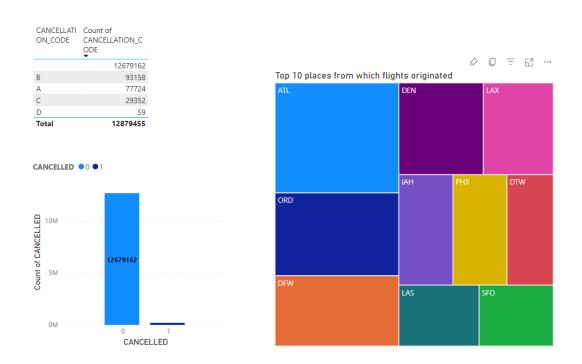
The pie chart shows the top 10 carriers by number of flights in 2017. The carriers are listed in order of decreasing number of flights, with American Airlines (AA) at the top and EV9E at the bottom.

The top 5 carriers by number of flights are:

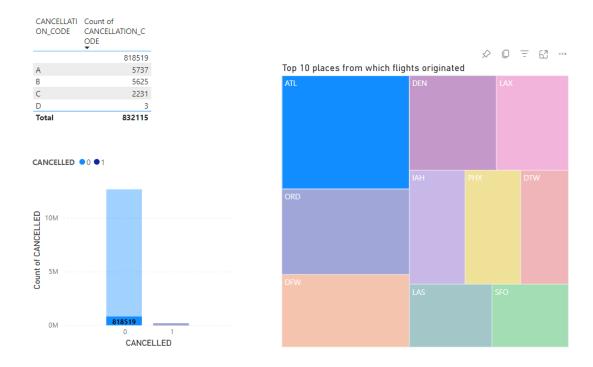
- 1. American Airlines (AA)
- 2. Delta Air Lines (DL)
- 3. Ryanair Group (RYR)
- 4. United Airlines (UA)
- 5. Southwest Airlines (WN)

These carriers account for over 60% of all flights in 2017.

Total Flights cancelled from Top 10 originating Places:



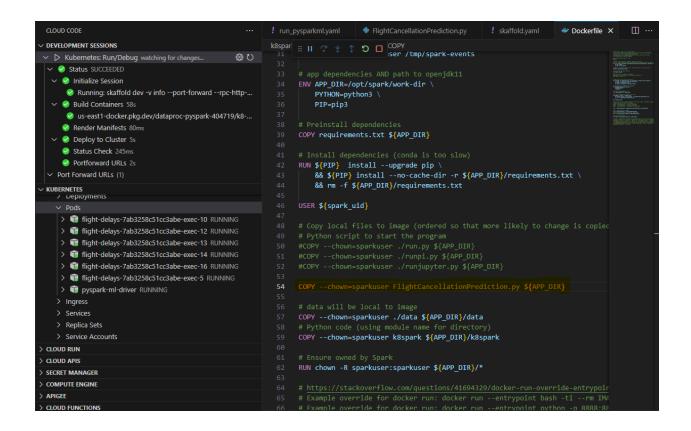
Maximum number of Flights cancelled from Originating Location:

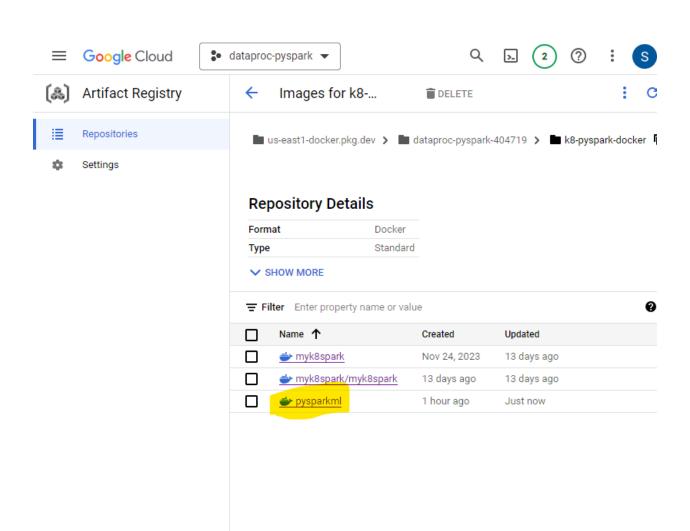


Minimum number of flights cancelled from Originating Location:



PySpark Application deployment on Kubernetes:





```
! skaffold.yaml
                                                         Dockerfile
                                                                      $ docker tag n Ⅲ ···
__/v1beta2"
     kind: SparkApplication
      name: pyspark-ml
      app: pyspark-ml
      type: Python
      image: "us-east1-docker.pkg.dev/dataproc-pyspark-404719/k8-pyspark-docker/pysparkml"
      # Skaffold's direct loading of images into a local cluster does mean that resources
      mainApplicationFile: local:///opt/spark/work-dir/FlightCancellationPrediction.py
      sparkConf:
       "spark.ui.port": "4040"
      sparkVersion: "3.2"
      restartPolicy:
       type: Never
      driver:
        serviceAccount: spark
      executor:
        coreLimit: "1"
        coreRequest: "1m"
        instances: 1
```

