

```
In [682.. !pip install pymongo
```

```
Requirement already satisfied: pymongo in c:\programdata\anaconda3\lib\site-packages (4.8.0)  
Requirement already satisfied: dnspython<3.0.0,>=1.16.0 in c:\programdata\anaconda3\lib\site-packages (from pymongo  
ngo) (2.6.1)
```

```
In [683.. import pymongo  
import pandas as pd  
import matplotlib.pyplot as plt  
import seaborn as sns
```

```
In [684.. import warnings  
warnings.filterwarnings('ignore')
```

```
In [685.. data = pd.read_csv("D:/CSV/Flights_Delay.csv")
```

```
In [686.. data.isnull().sum()
```

```
Out[686.. ID                0  
YEAR                0  
MONTH              0  
DAY                0  
DAY_OF_WEEK        0  
AIRLINE            0  
FLIGHT_NUMBER      0  
TAIL_NUMBER        404  
ORIGIN_AIRPORT      0  
DESTINATION_AIRPORT 0  
SCHEDULED_DEPARTURE 0  
DEPARTURE_TIME      2097  
DEPARTURE_DELAY     2097  
TAXI_OUT            2134  
WHEELS_OFF          2134  
SCHEDULED_TIME      0  
ELAPSED_TIME        2302  
AIR_TIME            2302  
DISTANCE            0  
WHEELS_ON           2189  
TAXI_IN             2189  
SCHEDULED_ARRIVAL   0  
ARRIVAL_TIME        2189  
ARRIVAL_DELAY       2302  
DIVERTED            0  
CANCELLED           0  
CANCELLATION_REASON 53849  
AIR_SYSTEM_DELAY    43818  
SECURITY_DELAY       43818  
AIRLINE_DELAY        43818  
LATE_AIRCRAFT_DELAY  43818  
WEATHER_DELAY        43818  
dtype: int64
```

```
In [687.. data.isnull().sum() / len(data) * 100
```

```
Out[687...] ID                0.000000
YEAR                0.000000
MONTH              0.000000
DAY                0.000000
DAY_OF_WEEK        0.000000
AIRLINE            0.000000
FLIGHT_NUMBER      0.000000
TAIL_NUMBER        0.721429
ORIGIN_AIRPORT     0.000000
DESTINATION_AIRPORT 0.000000
SCHEDULED_DEPARTURE 0.000000
DEPARTURE_TIME     3.744643
DEPARTURE_DELAY    3.744643
TAXI_OUT           3.810714
WHEELS_OFF         3.810714
SCHEDULED_TIME     0.000000
ELAPSED_TIME       4.110714
AIR_TIME           4.110714
DISTANCE           0.000000
WHEELS_ON          3.908929
TAXI_IN            3.908929
SCHEDULED_ARRIVAL  0.000000
ARRIVAL_TIME       3.908929
ARRIVAL_DELAY      4.110714
DIVERTED           0.000000
CANCELLED          0.000000
CANCELLATION_REASON 96.158929
AIR_SYSTEM_DELAY   78.246429
SECURITY_DELAY     78.246429
AIRLINE_DELAY      78.246429
LATE_AIRCRAFT_DELAY 78.246429
WEATHER_DELAY      78.246429
dtype: float64
```

```
In [688...] data['CANCELLATION_REASON'].value_counts()
```

```
Out[688...] CANCELLATION_REASON
B      1535
A       347
C       269
Name: count, dtype: int64
```

```
In [689...] data['ARRIVAL_DELAY'].fillna(data['ARRIVAL_DELAY'].mean(), inplace=True)
data['ARRIVAL_TIME'].fillna(data['ARRIVAL_TIME'].mean(), inplace=True)
data['DEPARTURE_TIME'].fillna(data['DEPARTURE_TIME'].mean(), inplace=True)
data['DEPARTURE_DELAY'].fillna(data['DEPARTURE_DELAY'].mean(), inplace=True)
data['TAXI_OUT'].fillna(data['TAXI_OUT'].mean(), inplace=True)
data['WHEELS_OFF'].fillna(data['WHEELS_OFF'].mean(), inplace=True)
data['ELAPSED_TIME'].fillna(data['ELAPSED_TIME'].mean(), inplace=True)
data['AIR_TIME'].fillna(data['AIR_TIME'].mean(), inplace=True)
data['WHEELS_ON'].fillna(data['WHEELS_ON'].mean(), inplace=True)
data['TAXI_IN'].fillna(data['TAXI_IN'].mean(), inplace=True)
```

1. Create collections "flights" inside database "airline_delayDB"
2. How would you insert this entire dataset into a MongoDB collection named flights? Describe the structure of each document.

```
In [690...] collection = None
def main():
    client = pymongo.MongoClient("localhost:27017")
    db = client['airline_delayDB']
    try:
        db.bank_cust_info.drop()
    except:
        print("Collection doesn't exist")

    global collection
    collection = db['flights']

    # bank_df = pd.read_csv("D:/CSV/Flights_Delay.csv")
    filtered_data = data.to_dict(orient = 'records')
    if filtered_data:
        collection.insert_many(filtered_data)

if __name__ == "__main__":
    main()
```

3. Write a MongoDB command to insert a single flight record from the dataset.

```
In [691... #This code is commented to maintain the results not being affected by this dummy insert

# dummy_data = {
#   'ID': 000,
#   'YEAR': 2015,
#   'MONTH': 1,
#   'DAY': 27,
#   'DAY_OF_WEEK': 2,
#   'AIRLINE': 'B6',
#   'FLIGHT_NUMBER': 716,
#   'TAIL_NUMBER': 'N309JB',
#   'ORIGIN_AIRPORT': 'JAX',
#   'DESTINATION_AIRPORT': 'DCA',
#   'SCHEDULED_DEPARTURE': 1335,
#   'DEPARTURE_TIME': 1505.0,
#   'DEPARTURE_DELAY': 90.0,
#   'TAXI_OUT': 16.0,
#   'WHEELS_OFF': 1521.0,
#   'SCHEDULED_TIME': 104,
#   'ELAPSED_TIME': 110.0,
#   'AIR_TIME': 91.0,
#   'DISTANCE': 634,
#   'WHEELS_ON': 1652.0,
#   'TAXI_IN': 3.0,
#   'SCHEDULED_ARRIVAL': 1519,
#   'ARRIVAL_TIME': 1655.0,
#   'ARRIVAL_DELAY': 96.0,
#   'DIVERTED': 0,
#   'CANCELLED': 0,
#   'CANCELLATION_REASON': None,
#   'AIR_SYSTEM_DELAY': 6.0,
#   'SECURITY_DELAY': 0.0,
#   'AIRLINE_DELAY': 90.0,
#   'LATE_AIRCRAFT_DELAY': 0.0,
#   'WEATHER_DELAY': 0.0}

# collection.insert_one(dummy_data)
```

4. Write a MongoDB query to find all flights that were delayed by more than 60 minutes.

```
In [692... list(collection.find({"DEPARTURE_DELAY": {"$gt": 60}}))
```

```
Out[692... [{'_id': ObjectId('66d42f1e3c979cf4159a9a9e'),
  'ID': 2,
  'YEAR': 2015,
  'MONTH': 1,
  'DAY': 27,
  'DAY_OF_WEEK': 2,
  'AIRLINE': 'B6',
  'FLIGHT_NUMBER': 716,
  'TAIL_NUMBER': 'N309JB',
  'ORIGIN_AIRPORT': 'JAX',
  'DESTINATION_AIRPORT': 'DCA',
  'SCHEDULED_DEPARTURE': 1335,
  'DEPARTURE_TIME': 1505.0,
  'DEPARTURE_DELAY': 90.0,
  'TAXI_OUT': 16.0,
  'WHEELS_OFF': 1521.0,
  'SCHEDULED_TIME': 104,
  'ELAPSED_TIME': 110.0,
  'AIR_TIME': 91.0,
  'DISTANCE': 634,
  'WHEELS_ON': 1652.0,
  'TAXI_IN': 3.0,
  'SCHEDULED_ARRIVAL': 1519,
  'ARRIVAL_TIME': 1655.0,
  'ARRIVAL_DELAY': 96.0,
  'DIVERTED': 0,
  'CANCELLED': 0,
  'CANCELLATION_REASON': nan,
  'AIR_SYSTEM_DELAY': 6.0,
  'SECURITY_DELAY': 0.0,
  'AIRLINE_DELAY': 90.0,
  'LATE_AIRCRAFT_DELAY': 0.0,
  'WEATHER_DELAY': 0.0},
 {'_id': ObjectId('66d42f1e3c979cf4159a9aae'),
  'ID': 18,
  'YEAR': 2015,
  'MONTH': 2,
```

```

'DAY': 24,
'DAY_OF_WEEK': 2,
'AIRLINE': '00',
'FLIGHT_NUMBER': 6196,
'TAIL_NUMBER': 'N751SK',
'ORIGIN_AIRPORT': 'ONT',
'DESTINATION_AIRPORT': 'IAH',
'SCHEDULED_DEPARTURE': 701,
'DEPARTURE_TIME': 806.0,
'DEPARTURE_DELAY': 65.0,
'TAXI_OUT': 24.0,
'WHEELS_OFF': 830.0,
'SCHEDULED_TIME': 189,
'ELAPSED_TIME': 180.0,
'AIR_TIME': 145.0,
'DISTANCE': 1334,
'WHEELS_ON': 1255.0,
'TAXI_IN': 11.0,
'SCHEDULED_ARRIVAL': 1210,
'ARRIVAL_TIME': 1306.0,
'ARRIVAL_DELAY': 56.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
'AIR_SYSTEM_DELAY': 0.0,
'SECURITY_DELAY': 0.0,
'AIRLINE_DELAY': 56.0,
'LATE_AIRCRAFT_DELAY': 0.0,
'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9ab2'),
 'ID': 22,
 'YEAR': 2015,
 'MONTH': 1,
 'DAY': 18,
 'DAY_OF_WEEK': 7,
 'AIRLINE': 'US',
 'FLIGHT_NUMBER': 1756,
 'TAIL_NUMBER': 'N823AW',
 'ORIGIN_AIRPORT': 'PBI',
 'DESTINATION_AIRPORT': 'PHL',
 'SCHEDULED_DEPARTURE': 1156,
 'DEPARTURE_TIME': 1304.0,
 'DEPARTURE_DELAY': 68.0,
 'TAXI_OUT': 10.0,
 'WHEELS_OFF': 1314.0,
 'SCHEDULED_TIME': 154,
 'ELAPSED_TIME': 140.0,
 'AIR_TIME': 122.0,
 'DISTANCE': 951,
 'WHEELS_ON': 1516.0,
 'TAXI_IN': 8.0,
 'SCHEDULED_ARRIVAL': 1430,
 'ARRIVAL_TIME': 1524.0,
 'ARRIVAL_DELAY': 54.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 0.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 21.0,
 'LATE_AIRCRAFT_DELAY': 33.0,
 'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9ab7'),
 'ID': 27,
 'YEAR': 2015,
 'MONTH': 2,
 'DAY': 1,
 'DAY_OF_WEEK': 7,
 'AIRLINE': '00',
 'FLIGHT_NUMBER': 2699,
 'TAIL_NUMBER': 'N897SK',
 'ORIGIN_AIRPORT': 'PHX',
 'DESTINATION_AIRPORT': 'FAT',
 'SCHEDULED_DEPARTURE': 1445,
 'DEPARTURE_TIME': 1943.0,
 'DEPARTURE_DELAY': 298.0,
 'TAXI_OUT': 20.0,
 'WHEELS_OFF': 2003.0,
 'SCHEDULED_TIME': 105,
 'ELAPSED_TIME': 100.0,
 'AIR_TIME': 76.0,
 'DISTANCE': 493,
 'WHEELS_ON': 2019.0,

```

```
'TAXI_IN': 4.0,
'SCHEDULED_ARRIVAL': 1530,
'ARRIVAL_TIME': 2023.0,
'ARRIVAL_DELAY': 293.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
'AIR_SYSTEM_DELAY': 0.0,
'SECURITY_DELAY': 0.0,
'AIRLINE_DELAY': 0.0,
'LATE_AIRCRAFT_DELAY': 293.0,
'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9abe'),
 'ID': 34,
 'YEAR': 2015,
 'MONTH': 1,
 'DAY': 4,
 'DAY_OF_WEEK': 7,
 'AIRLINE': 'F9',
 'FLIGHT_NUMBER': 661,
 'TAIL_NUMBER': 'N922FR',
 'ORIGIN_AIRPORT': 'DEN',
 'DESTINATION_AIRPORT': 'SFO',
 'SCHEDULED_DEPARTURE': 1310,
 'DEPARTURE_TIME': 1430.0,
 'DEPARTURE_DELAY': 80.0,
 'TAXI_OUT': 10.0,
 'WHEELS_OFF': 1440.0,
 'SCHEDULED_TIME': 153,
 'ELAPSED_TIME': 155.0,
 'AIR_TIME': 135.0,
 'DISTANCE': 967,
 'WHEELS_ON': 1555.0,
 'TAXI_IN': 10.0,
 'SCHEDULED_ARRIVAL': 1443,
 'ARRIVAL_TIME': 1605.0,
 'ARRIVAL_DELAY': 82.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 77.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 4.0,
 'LATE_AIRCRAFT_DELAY': 1.0,
 'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9abf'),
 'ID': 35,
 'YEAR': 2015,
 'MONTH': 3,
 'DAY': 2,
 'DAY_OF_WEEK': 1,
 'AIRLINE': 'US',
 'FLIGHT_NUMBER': 686,
 'TAIL_NUMBER': 'N570UW',
 'ORIGIN_AIRPORT': 'PHL',
 'DESTINATION_AIRPORT': 'PHX',
 'SCHEDULED_DEPARTURE': 1340,
 'DEPARTURE_TIME': 1520.0,
 'DEPARTURE_DELAY': 100.0,
 'TAXI_OUT': 11.0,
 'WHEELS_OFF': 1531.0,
 'SCHEDULED_TIME': 322,
 'ELAPSED_TIME': 322.0,
 'AIR_TIME': 308.0,
 'DISTANCE': 2075,
 'WHEELS_ON': 1839.0,
 'TAXI_IN': 3.0,
 'SCHEDULED_ARRIVAL': 1702,
 'ARRIVAL_TIME': 1842.0,
 'ARRIVAL_DELAY': 100.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 0.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 22.0,
 'LATE_AIRCRAFT_DELAY': 78.0,
 'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9ac8'),
 'ID': 44,
 'YEAR': 2015,
 'MONTH': 1,
 'DAY': 2,
```

```
'DAY_OF_WEEK': 5,
'AIRLINE': '00',
'FLIGHT_NUMBER': 4544,
'TAIL_NUMBER': 'N825SK',
'ORIGIN_AIRPORT': 'LAX',
'DESTINATION_AIRPORT': 'SMF',
'SCHEDULED_DEPARTURE': 1925,
'DEPARTURE_TIME': 2145.0,
'DEPARTURE_DELAY': 140.0,
'TAXI_OUT': 27.0,
'WHEELS_OFF': 2212.0,
'SCHEDULED_TIME': 89,
'ELAPSED_TIME': 102.0,
'AIR_TIME': 69.0,
'DISTANCE': 373,
'WHEELS_ON': 2321.0,
'TAXI_IN': 6.0,
'SCHEDULED_ARRIVAL': 2054,
'ARRIVAL_TIME': 2327.0,
'ARRIVAL_DELAY': 153.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
'AIR_SYSTEM_DELAY': 13.0,
'SECURITY_DELAY': 0.0,
'AIRLINE_DELAY': 0.0,
'LATE_AIRCRAFT_DELAY': 140.0,
'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9acc'),
 'ID': 48,
 'YEAR': 2015,
 'MONTH': 2,
 'DAY': 2,
 'DAY_OF_WEEK': 1,
 'AIRLINE': 'WN',
 'FLIGHT_NUMBER': 1165,
 'TAIL_NUMBER': 'N742SW',
 'ORIGIN_AIRPORT': 'ICT',
 'DESTINATION_AIRPORT': 'MDW',
 'SCHEDULED_DEPARTURE': 1810,
 'DEPARTURE_TIME': 2020.0,
 'DEPARTURE_DELAY': 130.0,
 'TAXI_OUT': 10.0,
 'WHEELS_OFF': 2030.0,
 'SCHEDULED_TIME': 100,
 'ELAPSED_TIME': 100.0,
 'AIR_TIME': 80.0,
 'DISTANCE': 589,
 'WHEELS_ON': 2150.0,
 'TAXI_IN': 10.0,
 'SCHEDULED_ARRIVAL': 1950,
 'ARRIVAL_TIME': 2200.0,
 'ARRIVAL_DELAY': 130.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 0.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 112.0,
 'LATE_AIRCRAFT_DELAY': 18.0,
 'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9ad1'),
 'ID': 53,
 'YEAR': 2015,
 'MONTH': 2,
 'DAY': 2,
 'DAY_OF_WEEK': 1,
 'AIRLINE': 'EV',
 'FLIGHT_NUMBER': 3936,
 'TAIL_NUMBER': 'N14180',
 'ORIGIN_AIRPORT': 'LAN',
 'DESTINATION_AIRPORT': 'ORD',
 'SCHEDULED_DEPARTURE': 1543,
 'DEPARTURE_TIME': 2021.0,
 'DEPARTURE_DELAY': 278.0,
 'TAXI_OUT': 53.0,
 'WHEELS_OFF': 2114.0,
 'SCHEDULED_TIME': 65,
 'ELAPSED_TIME': 131.0,
 'AIR_TIME': 39.0,
 'DISTANCE': 179,
 'WHEELS_ON': 2053.0,
 'TAXI_IN': 39.0,
```

```
'SCHEDULED_ARRIVAL': 1548,
'ARRIVAL_TIME': 2132.0,
'ARRIVAL_DELAY': 344.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
'AIR_SYSTEM_DELAY': 344.0,
'SECURITY_DELAY': 0.0,
'AIRLINE_DELAY': 0.0,
'LATE_AIRCRAFT_DELAY': 0.0,
'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9ae2'),
 'ID': 70,
 'YEAR': 2015,
 'MONTH': 1,
 'DAY': 22,
 'DAY_OF_WEEK': 4,
 'AIRLINE': 'DL',
 'FLIGHT_NUMBER': 1088,
 'TAIL_NUMBER': 'N688DL',
 'ORIGIN_AIRPORT': 'ANC',
 'DESTINATION_AIRPORT': 'MSP',
 'SCHEDULED_DEPARTURE': 2145,
 'DEPARTURE_TIME': 2248.0,
 'DEPARTURE_DELAY': 63.0,
 'TAXI_OUT': 23.0,
 'WHEELS_OFF': 2311.0,
 'SCHEDULED_TIME': 315,
 'ELAPSED_TIME': 308.0,
 'AIR_TIME': 281.0,
 'DISTANCE': 2519,
 'WHEELS_ON': 652.0,
 'TAXI_IN': 4.0,
 'SCHEDULED_ARRIVAL': 600,
 'ARRIVAL_TIME': 656.0,
 'ARRIVAL_DELAY': 56.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 0.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 5.0,
 'LATE_AIRCRAFT_DELAY': 51.0,
 'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9afb'),
 'ID': 95,
 'YEAR': 2015,
 'MONTH': 3,
 'DAY': 5,
 'DAY_OF_WEEK': 4,
 'AIRLINE': 'US',
 'FLIGHT_NUMBER': 1784,
 'TAIL_NUMBER': 'N176UW',
 'ORIGIN_AIRPORT': 'BWI',
 'DESTINATION_AIRPORT': 'PHX',
 'SCHEDULED_DEPARTURE': 2010,
 'DEPARTURE_TIME': 2129.0,
 'DEPARTURE_DELAY': 79.0,
 'TAXI_OUT': 54.0,
 'WHEELS_OFF': 2223.0,
 'SCHEDULED_TIME': 312,
 'ELAPSED_TIME': 339.0,
 'AIR_TIME': 281.0,
 'DISTANCE': 1999,
 'WHEELS_ON': 104.0,
 'TAXI_IN': 4.0,
 'SCHEDULED_ARRIVAL': 2322,
 'ARRIVAL_TIME': 108.0,
 'ARRIVAL_DELAY': 106.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 27.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 0.0,
 'LATE_AIRCRAFT_DELAY': 23.0,
 'WEATHER_DELAY': 56.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9b27'),
 'ID': 139,
 'YEAR': 2015,
 'MONTH': 2,
 'DAY': 24,
 'DAY_OF_WEEK': 2,
```

```
'AIRLINE': 'B6',
'FLIGHT_NUMBER': 577,
'TAIL_NUMBER': 'N597JB',
'ORIGIN_AIRPORT': 'FLL',
'DESTINATION_AIRPORT': 'SFO',
'SCHEDULED_DEPARTURE': 805,
'DEPARTURE_TIME': 907.0,
'DEPARTURE_DELAY': 62.0,
'TAXI_OUT': 25.0,
'WHEELS_OFF': 932.0,
'SCHEDULED_TIME': 386,
'ELAPSED_TIME': 381.0,
'AIR_TIME': 351.0,
'DISTANCE': 2583,
'WHEELS_ON': 1223.0,
'TAXI_IN': 5.0,
'SCHEDULED_ARRIVAL': 1131,
'ARRIVAL_TIME': 1228.0,
'ARRIVAL_DELAY': 57.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
'AIR_SYSTEM_DELAY': 0.0,
'SECURITY_DELAY': 0.0,
'AIRLINE_DELAY': 57.0,
'LATE_AIRCRAFT_DELAY': 0.0,
'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9b2a'),
 'ID': 142,
 'YEAR': 2015,
 'MONTH': 2,
 'DAY': 3,
 'DAY_OF_WEEK': 2,
 'AIRLINE': 'US',
 'FLIGHT_NUMBER': 1748,
 'TAIL_NUMBER': 'N189UW',
 'ORIGIN_AIRPORT': 'PHL',
 'DESTINATION_AIRPORT': 'MCO',
 'SCHEDULED_DEPARTURE': 1330,
 'DEPARTURE_TIME': 1754.0,
 'DEPARTURE_DELAY': 264.0,
 'TAXI_OUT': 20.0,
 'WHEELS_OFF': 1814.0,
 'SCHEDULED_TIME': 158,
 'ELAPSED_TIME': 166.0,
 'AIR_TIME': 132.0,
 'DISTANCE': 861,
 'WHEELS_ON': 2026.0,
 'TAXI_IN': 14.0,
 'SCHEDULED_ARRIVAL': 1608,
 'ARRIVAL_TIME': 2040.0,
 'ARRIVAL_DELAY': 272.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 8.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 246.0,
 'LATE_AIRCRAFT_DELAY': 18.0,
 'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159a9b30'),
 'ID': 148,
 'YEAR': 2015,
 'MONTH': 2,
 'DAY': 25,
 'DAY_OF_WEEK': 3,
 'AIRLINE': 'MQ',
 'FLIGHT_NUMBER': 3019,
 'TAIL_NUMBER': 'N522MQ',
 'ORIGIN_AIRPORT': 'ORD',
 'DESTINATION_AIRPORT': 'OKC',
 'SCHEDULED_DEPARTURE': 2150,
 'DEPARTURE_TIME': 2300.0,
 'DEPARTURE_DELAY': 70.0,
 'TAXI_OUT': 42.0,
 'WHEELS_OFF': 2342.0,
 'SCHEDULED_TIME': 129,
 'ELAPSED_TIME': 147.0,
 'AIR_TIME': 101.0,
 'DISTANCE': 693,
 'WHEELS_ON': 123.0,
 'TAXI_IN': 4.0,
 'SCHEDULED_ARRIVAL': 2359,
```



```

'ARRIVAL_TIME': 127.0,
'ARRIVAL_DELAY': 88.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
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 'DESTINATION_AIRPORT': 'SMF',
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 'DESTINATION_AIRPORT': 'SHV',
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 'DESTINATION_AIRPORT': 'BOI',
 'SCHEDULED_DEPARTURE': 1605,
 'DEPARTURE_TIME': 1708.0,
 'DEPARTURE_DELAY': 63.0,
 'TAXI_OUT': 10.0,
 'WHEELS_OFF': 1718.0,
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 'ELAPSED_TIME': 127.0,
 'AIR_TIME': 114.0,
 'DISTANCE': 735,
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 'SCHEDULED_ARRIVAL': 1810,
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 'TAXI_OUT': 22.0,
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 'SCHEDULED_TIME': 75,
 'ELAPSED_TIME': 73.0,
 'AIR_TIME': 42.0,
 'DISTANCE': 236,
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 'DESTINATION_AIRPORT': 'MDW',
 'SCHEDULED_DEPARTURE': 1855,
 'DEPARTURE_TIME': 2012.0,
 'DEPARTURE_DELAY': 77.0,
 'TAXI_OUT': 11.0,
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 'ELAPSED_TIME': 119.0,
 'AIR_TIME': 93.0,
 'DISTANCE': 591,
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 'TAXI_IN': 15.0,
 'SCHEDULED_ARRIVAL': 1955,
 'ARRIVAL_TIME': 2111.0,
 'ARRIVAL_DELAY': 76.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
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'DESTINATION_AIRPORT': 'PNS',
'SCHEDULED_DEPARTURE': 1500,
'DEPARTURE_TIME': 1708.0,
'DEPARTURE_DELAY': 128.0,
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'WHEELS_OFF': 1715.0,
'SCHEDULED_TIME': 80,
'ELAPSED_TIME': 75.0,
'AIR_TIME': 64.0,
'DISTANCE': 488,
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'TAXI_IN': 4.0,
'SCHEDULED_ARRIVAL': 1620,
'ARRIVAL_TIME': 1823.0,
'ARRIVAL_DELAY': 123.0,
'DIVERTED': 0,
'CANCELLED': 0,
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 'DESTINATION_AIRPORT': 'OKC',
 'SCHEDULED_DEPARTURE': 1810,
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 'DEPARTURE_DELAY': 70.0,
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 'AIR_TIME': 37.0,
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 'DESTINATION_AIRPORT': 'SBN',
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 'DEPARTURE_TIME': 2137.0,
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 'AIR_TIME': 55.0,
 'DISTANCE': 411,
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 'AIR_TIME': 122.0,
 'DISTANCE': 802,
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 'SCHEDULED_DEPARTURE': 1740,
 'DEPARTURE_TIME': 1859.0,
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 'DISTANCE': 2378,
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'AIR_TIME': 229.0,
'DISTANCE': 1771,
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 'DESTINATION_AIRPORT': 'SJU',
 'SCHEDULED_DEPARTURE': 1200,
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 'DEPARTURE_DELAY': 81.0,
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 'DISTANCE': 1598,
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 'DESTINATION_AIRPORT': 'SYR',
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 'AIR_TIME': 80.0,
 'DISTANCE': 607,
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 'DESTINATION_AIRPORT': 'OAK',
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 'ELAPSED_TIME': 139.0,
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 'DEPARTURE_DELAY': 63.0,
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 'SCHEDULED_TIME': 95,
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'DESTINATION_AIRPORT': 'ORD',
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 'DESTINATION_AIRPORT': 'TPA',
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 'DESTINATION_AIRPORT': 'MKE',
 'SCHEDULED_DEPARTURE': 1805,
 'DEPARTURE_TIME': 2008.0,
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 'DESTINATION_AIRPORT': 'SFO',
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 'AIR_TIME': 239.0,
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 'DEPARTURE_DELAY': 109.0,
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 'ELAPSED_TIME': 206.0,
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 'SCHEDULED_TIME': 65,
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 'DESTINATION_AIRPORT': 'EWR',
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 'DEPARTURE_TIME': 1222.0,
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'DISTANCE': 416,
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'ARRIVAL_TIME': 1349.0,
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 'DESTINATION_AIRPORT': 'ATL',
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 'DEPARTURE_DELAY': 77.0,
 'TAXI_OUT': 10.0,
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 'SCHEDULED_TIME': 94,
 'ELAPSED_TIME': 99.0,
 'AIR_TIME': 82.0,
 'DISTANCE': 399,
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 'ELAPSED_TIME': 127.0,
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 'DISTANCE': 666,
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 'CANCELLED': 0,
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 'SECURITY_DELAY': 0.0,
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 'TAIL_NUMBER': 'N525VA',
 'ORIGIN_AIRPORT': 'SFO',
 'DESTINATION_AIRPORT': 'LAS',
 'SCHEDULED_DEPARTURE': 1340,
 'DEPARTURE_TIME': 1553.0,
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 'DESTINATION_AIRPORT': 'SYR',
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 'DESTINATION_AIRPORT': 'OGG',
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'CANCELLED': 0,
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'AIR_TIME': 40.0,
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'DEPARTURE_DELAY': 105.0,
'TAXI_OUT': 16.0,
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 'SCHEDULED_TIME': 75,
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 'ARRIVAL_DELAY': 98.0,
 'DIVERTED': 0,
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'WHEELS_OFF': 1356.9231611777373,
'SCHEDULED_TIME': 120,
'ELAPSED_TIME': 136.84459383962158,
'AIR_TIME': 112.64454914521956,
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 'DESTINATION_AIRPORT': 'LAS',
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 'DESTINATION_AIRPORT': 'ORD',
 'SCHEDULED_DEPARTURE': 1520,
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 'AIR_TIME': 47.0,
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 'ARRIVAL_TIME': 1823.0,

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 'DEPARTURE_DELAY': 94.0,
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 'SCHEDULED_TIME': 103,
 'ELAPSED_TIME': 84.0,
 'AIR_TIME': 69.0,
 'DISTANCE': 472,
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 'DESTINATION_AIRPORT': 'BOS',
 'SCHEDULED_DEPARTURE': 1600,
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 'AIR_TIME': 45.0,
 'DISTANCE': 184,
 'WHEELS_ON': 1930.0,
 'TAXI_IN': 7.0,
 'SCHEDULED_ARRIVAL': 1721,
 'ARRIVAL_TIME': 1937.0,
 'ARRIVAL_DELAY': 136.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
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'DISTANCE': 618,
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 'DESTINATION_AIRPORT': 'FSD',
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 'DESTINATION_AIRPORT': 'MDW',
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 'DESTINATION_AIRPORT': 'PHX',
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 'AIR_TIME': 196.0,
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 'DESTINATION_AIRPORT': 'MSY',
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 'SCHEDULED_DEPARTURE': 1850,
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 'DESTINATION_AIRPORT': 'BNA',
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 'DESTINATION_AIRPORT': 'MCO',
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 'DESTINATION_AIRPORT': 'IAD',
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 'DESTINATION_AIRPORT': 'DFW',
 'SCHEDULED_DEPARTURE': 1700,
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 'DEPARTURE_DELAY': 219.0,
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 'TAXI_OUT': 24.0,
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 'DISTANCE': 577,
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 'DESTINATION_AIRPORT': 'DFW',
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 'DEPARTURE_TIME': 2204.0,
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 'DESTINATION_AIRPORT': 'ATL',
 'SCHEDULED_DEPARTURE': 1459,
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 'ELAPSED_TIME': 83.0,
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 'DESTINATION_AIRPORT': 'MHT',
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 'SCHEDULED_TIME': 120,
 'ELAPSED_TIME': 128.0,
 'AIR_TIME': 93.0,
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 'DESTINATION_AIRPORT': 'MIA',
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'DESTINATION_AIRPORT': 'LIT',
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'DEPARTURE_TIME': 2056.0,
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 'DESTINATION_AIRPORT': 'LGA',
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 'DESTINATION_AIRPORT': 'CLE',
 'SCHEDULED_DEPARTURE': 1727,
 'DEPARTURE_TIME': 1844.0,
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 'SCHEDULED_TIME': 88,
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 'AIR_TIME': 64.0,
 'DISTANCE': 310,
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 'SCHEDULED_ARRIVAL': 1855,
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'AIRLINE_DELAY': 12.0,
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'SCHEDULED_DEPARTURE': 1455,
'DEPARTURE_TIME': 1700.0,
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'DESTINATION_AIRPORT': 'DEN',
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 'SCHEDULED_DEPARTURE': 805,
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 'DESTINATION_AIRPORT': 'MOB',
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 'DESTINATION_AIRPORT': 'LGA',
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 'DEPARTURE_TIME': 1710.0,
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'SCHEDULED_TIME': 78,
'ELAPSED_TIME': 71.0,
'AIR_TIME': 51.0,
'DISTANCE': 352,
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'TAXI_IN': 12.0,
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'ARRIVAL_DELAY': 83.0,
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 'DISTANCE': 833,
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 'CANCELLED': 0,
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 'ORIGIN_AIRPORT': 'PHX',
 'DESTINATION_AIRPORT': 'DEN',
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 'DESTINATION_AIRPORT': 'SMF',
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 'SCHEDULED_TIME': 238,
 'ELAPSED_TIME': 202.0,
 'AIR_TIME': 182.0,
 'DISTANCE': 1517,
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 'DESTINATION_AIRPORT': 'PHL',
 'SCHEDULED_DEPARTURE': 1710,
 'DEPARTURE_TIME': 1834.0,
 'DEPARTURE_DELAY': 84.0,
 'TAXI_OUT': 18.0,
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 'SCHEDULED_TIME': 164,
 'ELAPSED_TIME': 196.0,
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 'DISTANCE': 992,
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 'SCHEDULED_ARRIVAL': 1954,
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 'DESTINATION_AIRPORT': 'JFK',
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 'DESTINATION_AIRPORT': 'LGA',
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 'DESTINATION_AIRPORT': 'ISN',
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 'DEPARTURE_DELAY': 80.0,
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 'SCHEDULED_TIME': 110,
 'ELAPSED_TIME': 119.0,
 'AIR_TIME': 95.0,
 'DISTANCE': 576,
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'SCHEDULED_DEPARTURE': 1645,
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'DEPARTURE_DELAY': 146.0,
'TAXI_OUT': 21.0,
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'SCHEDULED_TIME': 128,
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'DISTANCE': 606,
'WHEELS_ON': 2153.0,
'TAXI_IN': 12.0,
'SCHEDULED_ARRIVAL': 1953,
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'ARRIVAL_DELAY': 132.0,
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'AIRLINE_DELAY': 1.0,
'LATE_AIRCRAFT_DELAY': 131.0,
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'DESTINATION_AIRPORT': 'PHX',
'SCHEDULED_DEPARTURE': 1250,
'DEPARTURE_TIME': 1439.0,
'DEPARTURE_DELAY': 109.0,
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'DIVERTED': 0,
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'AIRLINE_DELAY': 27.0,
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'DESTINATION_AIRPORT': 'ATL',
'SCHEDULED_DEPARTURE': 1016,
'DEPARTURE_TIME': 1146.0,
'DEPARTURE_DELAY': 90.0,
'TAXI_OUT': 9.0,
'WHEELS_OFF': 1155.0,
'SCHEDULED_TIME': 67,
'ELAPSED_TIME': 57.0,

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'ARRIVAL_DELAY': 80.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
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 'DESTINATION_AIRPORT': 'LGA',
 'SCHEDULED_DEPARTURE': 1110,
 'DEPARTURE_TIME': 1217.0,
 'DEPARTURE_DELAY': 67.0,
 'TAXI_OUT': 23.0,
 'WHEELS_OFF': 1240.0,
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 'DISTANCE': 659,
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 'TAXI_IN': 4.0,
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 'ARRIVAL_DELAY': 54.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
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 'TAIL_NUMBER': 'N802UA',
 'ORIGIN_AIRPORT': 'LGA',
 'DESTINATION_AIRPORT': 'ORD',
 'SCHEDULED_DEPARTURE': 1700,
 'DEPARTURE_TIME': 1912.0,
 'DEPARTURE_DELAY': 132.0,
 'TAXI_OUT': 30.0,
 'WHEELS_OFF': 1942.0,
 'SCHEDULED_TIME': 169,
 'ELAPSED_TIME': 164.0,
 'AIR_TIME': 116.0,
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 'TAXI_IN': 18.0,
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 'ARRIVAL_DELAY': 127.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
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 'AIRLINE_DELAY': 0.0,
 'LATE_AIRCRAFT_DELAY': 123.0,
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'DESTINATION_AIRPORT': 'PHX',
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'DEPARTURE_DELAY': 61.0,
'TAXI_OUT': 6.0,
'WHEELS_OFF': 1312.0,
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'DISTANCE': 370,
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'TAXI_IN': 6.0,
'SCHEDULED_ARRIVAL': 1420,
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'DIVERTED': 0,
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'CANCELLATION_REASON': nan,
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'AIRLINE_DELAY': 5.0,
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 'FLIGHT_NUMBER': 1656,
 'TAIL_NUMBER': 'N4YDAA',
 'ORIGIN_AIRPORT': 'DFW',
 'DESTINATION_AIRPORT': 'DAY',
 'SCHEDULED_DEPARTURE': 2010,
 'DEPARTURE_TIME': 2117.0,
 'DEPARTURE_DELAY': 67.0,
 'TAXI_OUT': 10.0,
 'WHEELS_OFF': 2127.0,
 'SCHEDULED_TIME': 127,
 'ELAPSED_TIME': 120.0,
 'AIR_TIME': 100.0,
 'DISTANCE': 861,
 'WHEELS_ON': 7.0,
 'TAXI_IN': 10.0,
 'SCHEDULED_ARRIVAL': 2317,
 'ARRIVAL_TIME': 17.0,
 'ARRIVAL_DELAY': 60.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 0.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 39.0,
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 'WEATHER_DELAY': 0.0},
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 'FLIGHT_NUMBER': 761,
 'TAIL_NUMBER': 'N579JB',
 'ORIGIN_AIRPORT': 'LGA',
 'DESTINATION_AIRPORT': 'PBI',
 'SCHEDULED_DEPARTURE': 1945,
 'DEPARTURE_TIME': 2229.0,
 'DEPARTURE_DELAY': 164.0,
 'TAXI_OUT': 13.0,
 'WHEELS_OFF': 2242.0,
 'SCHEDULED_TIME': 180,
 'ELAPSED_TIME': 180.0,
 'AIR_TIME': 161.0,

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'CANCELLATION_REASON': nan,
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'WEATHER_DELAY': 0.0},
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 'FLIGHT_NUMBER': 4310,
 'TAIL_NUMBER': 'N11551',
 'ORIGIN_AIRPORT': 'CLE',
 'DESTINATION_AIRPORT': 'LGA',
 'SCHEDULED_DEPARTURE': 1820,
 'DEPARTURE_TIME': 2028.0,
 'DEPARTURE_DELAY': 128.0,
 'TAXI_OUT': 23.0,
 'WHEELS_OFF': 2051.0,
 'SCHEDULED_TIME': 99,
 'ELAPSED_TIME': 102.0,
 'AIR_TIME': 71.0,
 'DISTANCE': 419,
 'WHEELS_ON': 2202.0,
 'TAXI_IN': 8.0,
 'SCHEDULED_ARRIVAL': 1959,
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 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 3.0,
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 'AIRLINE_DELAY': 92.0,
 'LATE_AIRCRAFT_DELAY': 36.0,
 'WEATHER_DELAY': 0.0},
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 'FLIGHT_NUMBER': 833,
 'TAIL_NUMBER': 'N742SW',
 'ORIGIN_AIRPORT': 'PHX',
 'DESTINATION_AIRPORT': 'IND',
 'SCHEDULED_DEPARTURE': 1155,
 'DEPARTURE_TIME': 1320.0,
 'DEPARTURE_DELAY': 85.0,
 'TAXI_OUT': 12.0,
 'WHEELS_OFF': 1332.0,
 'SCHEDULED_TIME': 205,
 'ELAPSED_TIME': 213.0,
 'AIR_TIME': 194.0,
 'DISTANCE': 1488,
 'WHEELS_ON': 1846.0,
 'TAXI_IN': 7.0,
 'SCHEDULED_ARRIVAL': 1720,
 'ARRIVAL_TIME': 1853.0,
 'ARRIVAL_DELAY': 93.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
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 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 0.0,
 'LATE_AIRCRAFT_DELAY': 85.0,
 'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159ad780'),
 'ID': 15588,
 'YEAR': 2015,

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'FLIGHT_NUMBER': 3473,
'TAIL_NUMBER': 'N806MQ',
'ORIGIN_AIRPORT': 'LGA',
'DESTINATION_AIRPORT': 'DAY',
'SCHEDULED_DEPARTURE': 2105,
'DEPARTURE_TIME': 2212.0,
'DEPARTURE_DELAY': 67.0,
'TAXI_OUT': 12.0,
'WHEELS_OFF': 2224.0,
'SCHEDULED_TIME': 118,
'ELAPSED_TIME': 129.0,
'AIR_TIME': 98.0,
'DISTANCE': 549,
'WHEELS_ON': 2.0,
'TAXI_IN': 19.0,
'SCHEDULED_ARRIVAL': 2303,
'ARRIVAL_TIME': 21.0,
'ARRIVAL_DELAY': 78.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
'AIR_SYSTEM_DELAY': 11.0,
'SECURITY_DELAY': 0.0,
'AIRLINE_DELAY': 0.0,
'LATE_AIRCRAFT_DELAY': 67.0,
'WEATHER_DELAY': 0.0},
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 'FLIGHT_NUMBER': 167,
 'TAIL_NUMBER': 'N218WN',
 'ORIGIN_AIRPORT': 'SAN',
 'DESTINATION_AIRPORT': 'LAS',
 'SCHEDULED_DEPARTURE': 1655,
 'DEPARTURE_TIME': 1820.0,
 'DEPARTURE_DELAY': 85.0,
 'TAXI_OUT': 27.0,
 'WHEELS_OFF': 1847.0,
 'SCHEDULED_TIME': 70,
 'ELAPSED_TIME': 80.0,
 'AIR_TIME': 45.0,
 'DISTANCE': 258,
 'WHEELS_ON': 1932.0,
 'TAXI_IN': 8.0,
 'SCHEDULED_ARRIVAL': 1805,
 'ARRIVAL_TIME': 1940.0,
 'ARRIVAL_DELAY': 95.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 29.0,
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 'LATE_AIRCRAFT_DELAY': 66.0,
 'WEATHER_DELAY': 0.0},
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 'AIRLINE': 'WN',
 'FLIGHT_NUMBER': 4163,
 'TAIL_NUMBER': 'N7723E',
 'ORIGIN_AIRPORT': 'SJC',
 'DESTINATION_AIRPORT': 'SAN',
 'SCHEDULED_DEPARTURE': 1855,
 'DEPARTURE_TIME': 1958.0,
 'DEPARTURE_DELAY': 63.0,
 'TAXI_OUT': 6.0,
 'WHEELS_OFF': 2004.0,
 'SCHEDULED_TIME': 75,
 'ELAPSED_TIME': 68.0,
 'AIR_TIME': 59.0,
 'DISTANCE': 417,
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'TAXI_IN': 3.0,
'SCHEDULED_ARRIVAL': 2010,
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'ARRIVAL_DELAY': 56.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
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'AIRLINE_DELAY': 0.0,
'LATE_AIRCRAFT_DELAY': 56.0,
'WEATHER_DELAY': 0.0},
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 'FLIGHT_NUMBER': 1019,
 'TAIL_NUMBER': 'N3FMAA',
 'ORIGIN_AIRPORT': 'MIA',
 'DESTINATION_AIRPORT': 'TPA',
 'SCHEDULED_DEPARTURE': 2149,
 'DEPARTURE_TIME': 2252.0,
 'DEPARTURE_DELAY': 63.0,
 'TAXI_OUT': 23.0,
 'WHEELS_OFF': 2315.0,
 'SCHEDULED_TIME': 61,
 'ELAPSED_TIME': 67.0,
 'AIR_TIME': 38.0,
 'DISTANCE': 204,
 'WHEELS_ON': 2353.0,
 'TAXI_IN': 6.0,
 'SCHEDULED_ARRIVAL': 2250,
 'ARRIVAL_TIME': 2359.0,
 'ARRIVAL_DELAY': 69.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 6.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 14.0,
 'LATE_AIRCRAFT_DELAY': 49.0,
 'WEATHER_DELAY': 0.0},
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 'FLIGHT_NUMBER': 55,
 'TAIL_NUMBER': 'N537AS',
 'ORIGIN_AIRPORT': 'BRW',
 'DESTINATION_AIRPORT': 'FAI',
 'SCHEDULED_DEPARTURE': 1209,
 'DEPARTURE_TIME': 1711.0,
 'DEPARTURE_DELAY': 302.0,
 'TAXI_OUT': 10.0,
 'WHEELS_OFF': 1721.0,
 'SCHEDULED_TIME': 81,
 'ELAPSED_TIME': 85.0,
 'AIR_TIME': 72.0,
 'DISTANCE': 503,
 'WHEELS_ON': 1833.0,
 'TAXI_IN': 3.0,
 'SCHEDULED_ARRIVAL': 1330,
 'ARRIVAL_TIME': 1836.0,
 'ARRIVAL_DELAY': 306.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
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 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 0.0,
 'LATE_AIRCRAFT_DELAY': 302.0,
 'WEATHER_DELAY': 0.0},
{'_id': ObjectId('66d42f1e3c979cf4159ad7dd'),
 'ID': 15681,
 'YEAR': 2015,
 'MONTH': 2,

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'DAY': 5,
'DAY_OF_WEEK': 4,
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'FLIGHT_NUMBER': 2686,
'TAIL_NUMBER': 'N892AT',
'ORIGIN_AIRPORT': 'LGA',
'DESTINATION_AIRPORT': 'BOS',
'SCHEDULED_DEPARTURE': 1600,
'DEPARTURE_TIME': 1858.0,
'DEPARTURE_DELAY': 178.0,
'TAXI_OUT': 37.0,
'WHEELS_OFF': 1935.0,
'SCHEDULED_TIME': 81,
'ELAPSED_TIME': 90.0,
'AIR_TIME': 42.0,
'DISTANCE': 184,
'WHEELS_ON': 2017.0,
'TAXI_IN': 11.0,
'SCHEDULED_ARRIVAL': 1721,
'ARRIVAL_TIME': 2028.0,
'ARRIVAL_DELAY': 187.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
'AIR_SYSTEM_DELAY': 175.0,
'SECURITY_DELAY': 0.0,
'AIRLINE_DELAY': 12.0,
'LATE_AIRCRAFT_DELAY': 0.0,
'WEATHER_DELAY': 0.0},
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 'FLIGHT_NUMBER': 6340,
 'TAIL_NUMBER': 'N908SW',
 'ORIGIN_AIRPORT': 'SFO',
 'DESTINATION_AIRPORT': 'TUS',
 'SCHEDULED_DEPARTURE': 1300,
 'DEPARTURE_TIME': 1445.0,
 'DEPARTURE_DELAY': 105.0,
 'TAXI_OUT': 18.0,
 'WHEELS_OFF': 1503.0,
 'SCHEDULED_TIME': 123,
 'ELAPSED_TIME': 114.0,
 'AIR_TIME': 93.0,
 'DISTANCE': 751,
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 'TAXI_IN': 3.0,
 'SCHEDULED_ARRIVAL': 1603,
 'ARRIVAL_TIME': 1739.0,
 'ARRIVAL_DELAY': 96.0,
 'DIVERTED': 0,
 'CANCELLED': 0,
 'CANCELLATION_REASON': nan,
 'AIR_SYSTEM_DELAY': 0.0,
 'SECURITY_DELAY': 0.0,
 'AIRLINE_DELAY': 83.0,
 'LATE_AIRCRAFT_DELAY': 13.0,
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 'YEAR': 2015,
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 'DAY': 2,
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 'FLIGHT_NUMBER': 335,
 'TAIL_NUMBER': 'N829UA',
 'ORIGIN_AIRPORT': 'IAH',
 'DESTINATION_AIRPORT': 'ORD',
 'SCHEDULED_DEPARTURE': 1934,
 'DEPARTURE_TIME': 2124.0,
 'DEPARTURE_DELAY': 110.0,
 'TAXI_OUT': 23.0,
 'WHEELS_OFF': 2147.0,
 'SCHEDULED_TIME': 155,
 'ELAPSED_TIME': 141.0,
 'AIR_TIME': 114.0,
 'DISTANCE': 925,
 'WHEELS_ON': 2341.0,

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'TAXI_IN': 4.0,
'SCHEDULED_ARRIVAL': 2209,
'ARRIVAL_TIME': 2345.0,
'ARRIVAL_DELAY': 96.0,
'DIVERTED': 0,
'CANCELLED': 0,
'CANCELLATION_REASON': nan,
'AIR_SYSTEM_DELAY': 0.0,
'SECURITY_DELAY': 0.0,
'AIRLINE_DELAY': 9.0,
'LATE_AIRCRAFT_DELAY': 87.0,
'WEATHER_DELAY': 0.0},
...]
```

- How would you query all flights that were cancelled (CANCELLED flag set to 1) and return only the AIRLINE, ORIGIN_AIRPORT, and CANCELLATION_REASON fields?

```
In [693]: list(collection.find({"CANCELLED": 1}, {"_id":0, "AIRLINE":1, "ORIGIN_AIRPORT":1, "CANCELLATION_REASON":1}))
```

```
Out[693]: [{'AIRLINE': 'EV', 'ORIGIN_AIRPORT': 'MLI', 'CANCELLATION_REASON': 'C'},
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{'AIRLINE': 'DL', 'ORIGIN_AIRPORT': 'SFO', 'CANCELLATION_REASON': 'B'},
{'AIRLINE': 'AA', 'ORIGIN_AIRPORT': 'DFW', 'CANCELLATION_REASON': 'B'},
{'AIRLINE': 'MQ', 'ORIGIN_AIRPORT': 'LGA', 'CANCELLATION_REASON': 'B'},
{'AIRLINE': 'AA', 'ORIGIN_AIRPORT': 'BDL', 'CANCELLATION_REASON': 'B'},
{'AIRLINE': 'WN', 'ORIGIN_AIRPORT': 'MKE', 'CANCELLATION_REASON': 'B'},
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{'AIRLINE': 'WN', 'ORIGIN_AIRPORT': 'FLL', 'CANCELLATION_REASON': 'B'},
{'AIRLINE': 'EV', 'ORIGIN_AIRPORT': 'ORF', 'CANCELLATION_REASON': 'B'},
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{'AIRLINE': 'MQ', 'ORIGIN_AIRPORT': 'DFW', 'CANCELLATION_REASON': 'B'},
{'AIRLINE': 'US', 'ORIGIN_AIRPORT': 'PHL', 'CANCELLATION_REASON': 'B'},
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{'AIRLINE': 'B6', 'ORIGIN_AIRPORT': 'FLL', 'CANCELLATION_REASON': 'B'},
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{'AIRLINE': 'EV', 'ORIGIN_AIRPORT': 'ORD', 'CANCELLATION_REASON': 'C'},
{'AIRLINE': 'OO', 'ORIGIN_AIRPORT': 'MKE', 'CANCELLATION_REASON': 'C'},
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```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

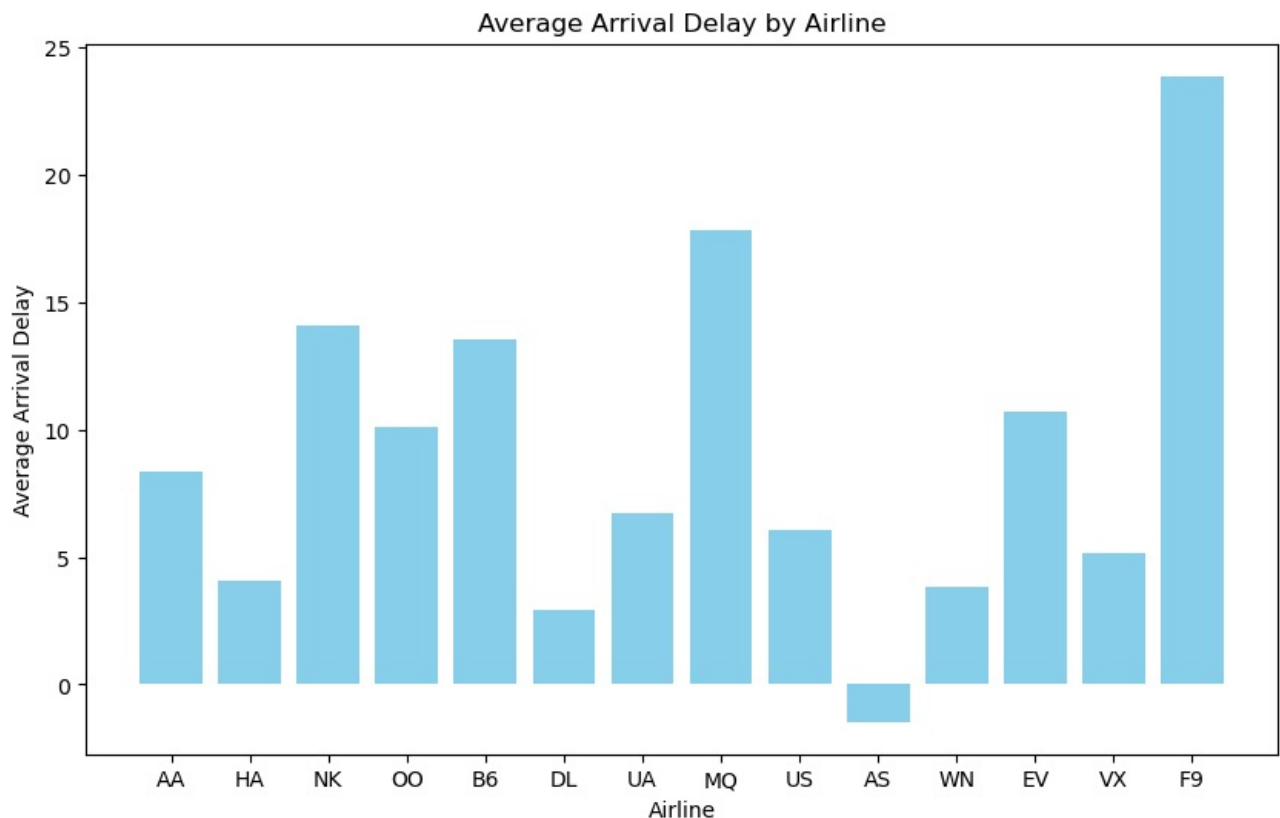
[illegible]

```
{'AIRLINE': 'US', 'ORIGIN_AIRPORT': 'PHL', 'CANCELLATION_REASON': 'C'},
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{'AIRLINE': 'OO', 'ORIGIN_AIRPORT': 'DFW', 'CANCELLATION_REASON': 'B'},
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{'AIRLINE': 'MQ', 'ORIGIN_AIRPORT': 'ORD', 'CANCELLATION_REASON': 'B'},
{'AIRLINE': 'MQ', 'ORIGIN_AIRPORT': 'TUL', 'CANCELLATION_REASON': 'C'},
{'AIRLINE': 'WN', 'ORIGIN_AIRPORT': 'OAK', 'CANCELLATION_REASON': 'A'},
{'AIRLINE': 'EV', 'ORIGIN_AIRPORT': 'PIA', 'CANCELLATION_REASON': 'C'},
{'AIRLINE': 'WN', 'ORIGIN_AIRPORT': 'BOS', 'CANCELLATION_REASON': 'B'},
...]
```

6. Using MongoDB's aggregation framework, how would you calculate the average arrival delay (ARRIVAL_DELAY) for each airline?
[Create a suitable plot using matplotlib/seaborn]

```
In [694... arrival_delay_for_each_airline = pd.DataFrame(collection.aggregate([
    {"$group":
        {
            "_id": "$AIRLINE",
            "average": {"$avg": "$ARRIVAL_DELAY"}
        }
    ]))

plt.figure(figsize=(10, 6))
plt.bar(arrival_delay_for_each_airline['_id'], arrival_delay_for_each_airline['average'], color="skyblue")
plt.xlabel('Airline')
plt.ylabel('Average Arrival Delay')
plt.title('Average Arrival Delay by Airline')
plt.show()
```



7. Days of months with respect to average of arrival delays. [Create a suitable plot using matplotlib/seaborn]

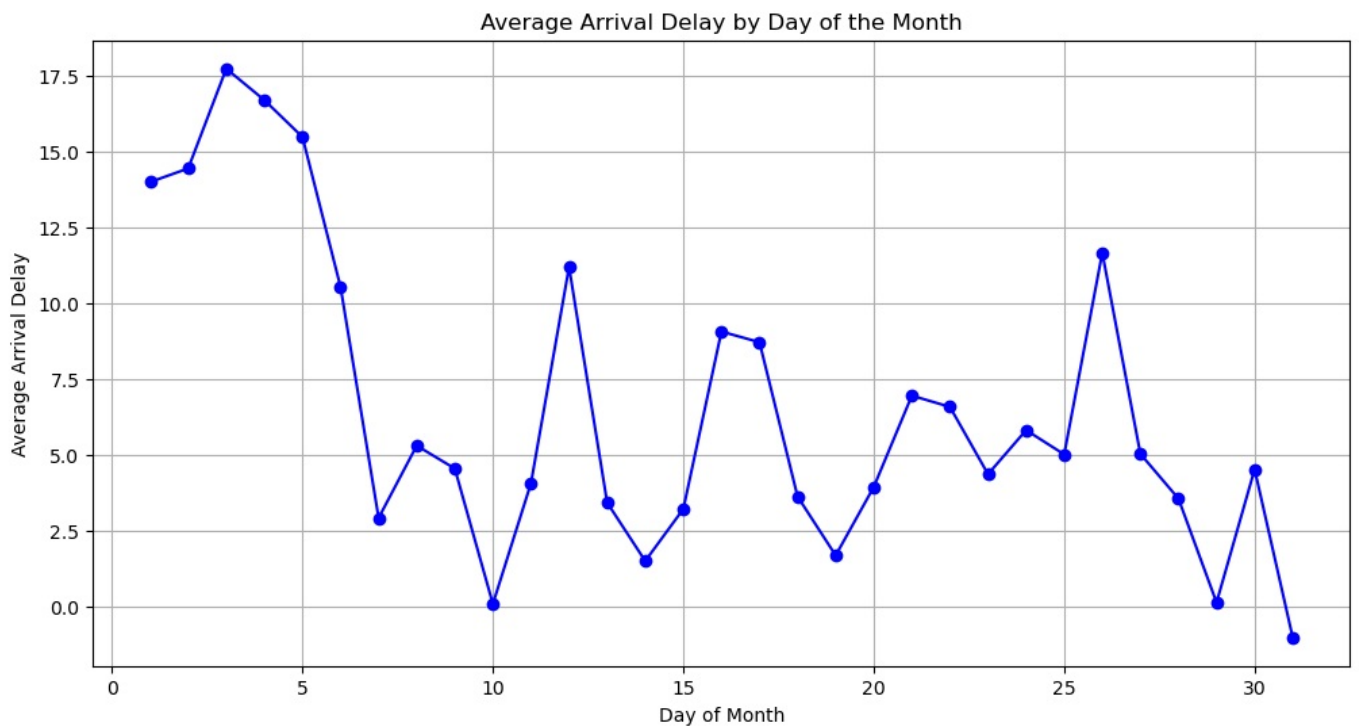
```
In [695... day_month_avg_arrival_delay = pd.DataFrame(collection.aggregate([
```

```

{"$group":
{
    "_id": "$DAY",
    "avg_arrival_day": {"$avg": "$ARRIVAL_DELAY"}
},
{"$sort": {"_id": 1}}
]))
# plt.figure(figsize=(10, 6))
# plt.bar(day_month_avg_arrival_delay['_id'], day_month_avg_arrival_delay['avg_arrival_day'])
# plt.xlabel('Airline')
# plt.ylabel('Average Arrival Delay')
# plt.title('Average Arrival Delay by Airline')
# plt.show()

plt.figure(figsize=(12, 6))
plt.plot(day_month_avg_arrival_delay['_id'], day_month_avg_arrival_delay['avg_arrival_day'], marker='o', linestyle='solid')
plt.xlabel('Day of Month')
plt.ylabel('Average Arrival Delay')
plt.title('Average Arrival Delay by Day of the Month')
plt.grid(True)
plt.show()

```



8. Write a MongoDB aggregation pipeline to find the top 10 airports with the highest average total delay (DEPARTURE_DELAY + ARRIVAL_DELAY).

```

In [696]: pd.DataFrame(collection.aggregate([
    {"$project":
        {"_id": 0,
         "airport": "$ORIGIN_AIRPORT",
         "total_delay": {
             "$add": ["$DEPARTURE_DELAY", "$ARRIVAL_DELAY"]
         }
        },
    {"$group":
        {
            "_id": "$airport",
            "avg_delay": {"$avg": "$total_delay"}
        },
    {"$sort":
        {
            "avg_delay": -1
        },
    {"$limit": 10
    ]]))

```

	_id	avg_delay
0	HOB	250.666667
1	CDC	210.200000
2	PIH	191.200000
3	ILG	168.666667
4	HIB	168.250000
5	SCE	128.714286
6	TTN	97.891436
7	JLN	95.742001
8	SPS	93.339221
9	MBS	77.910650

- Explain how you would create an index on the ORIGIN_AIRPORT and DESTINATION_AIRPORT fields to optimize queries filtering by these fields.

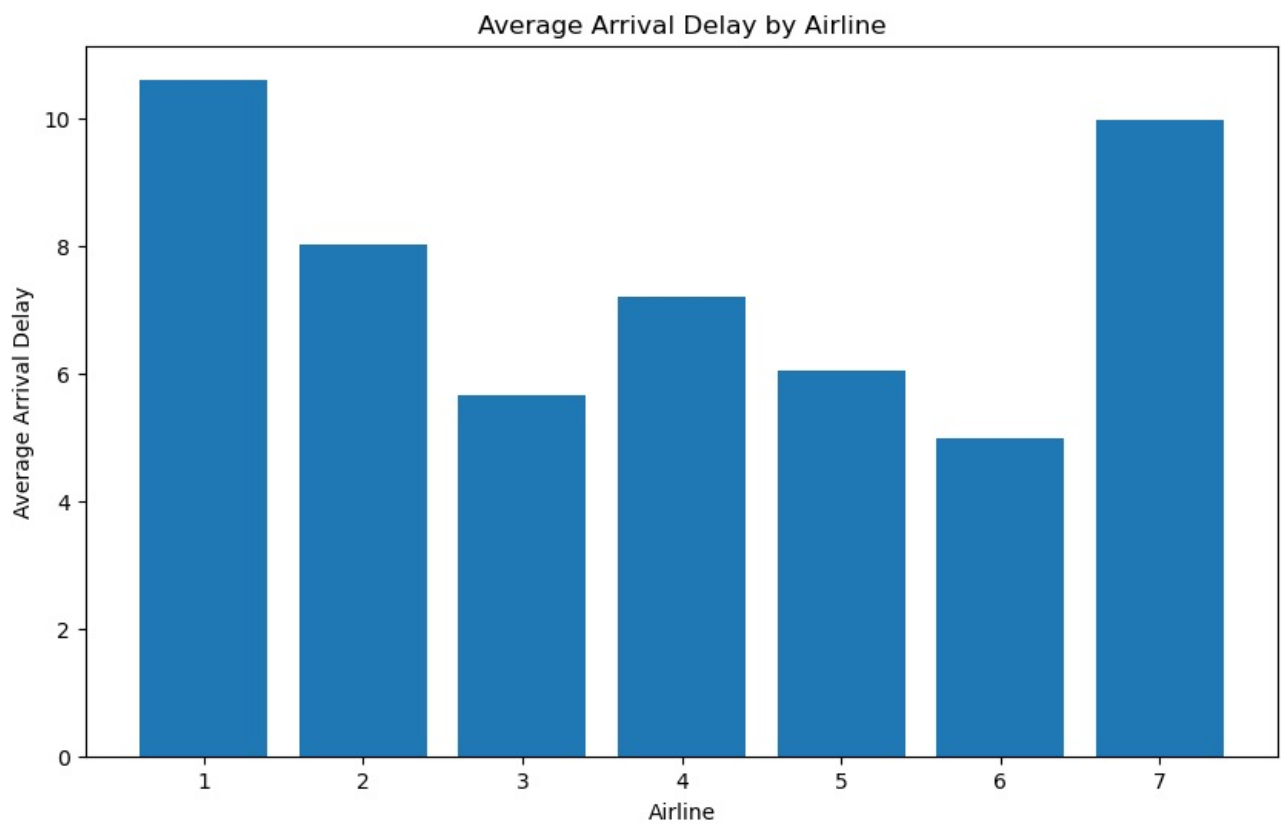
```
In [697... collection.create_index({"ORIGIN_AIRPORT":1, "DESTINATION_AIRPORT":1})
```

```
Out[697... 'ORIGIN_AIRPORT_1_DESTINATION_AIRPORT_1'
```

- Arrange weekdays with respect to the average arrival delays caused. [Create a suitable plot using matplotlib/seaborn]

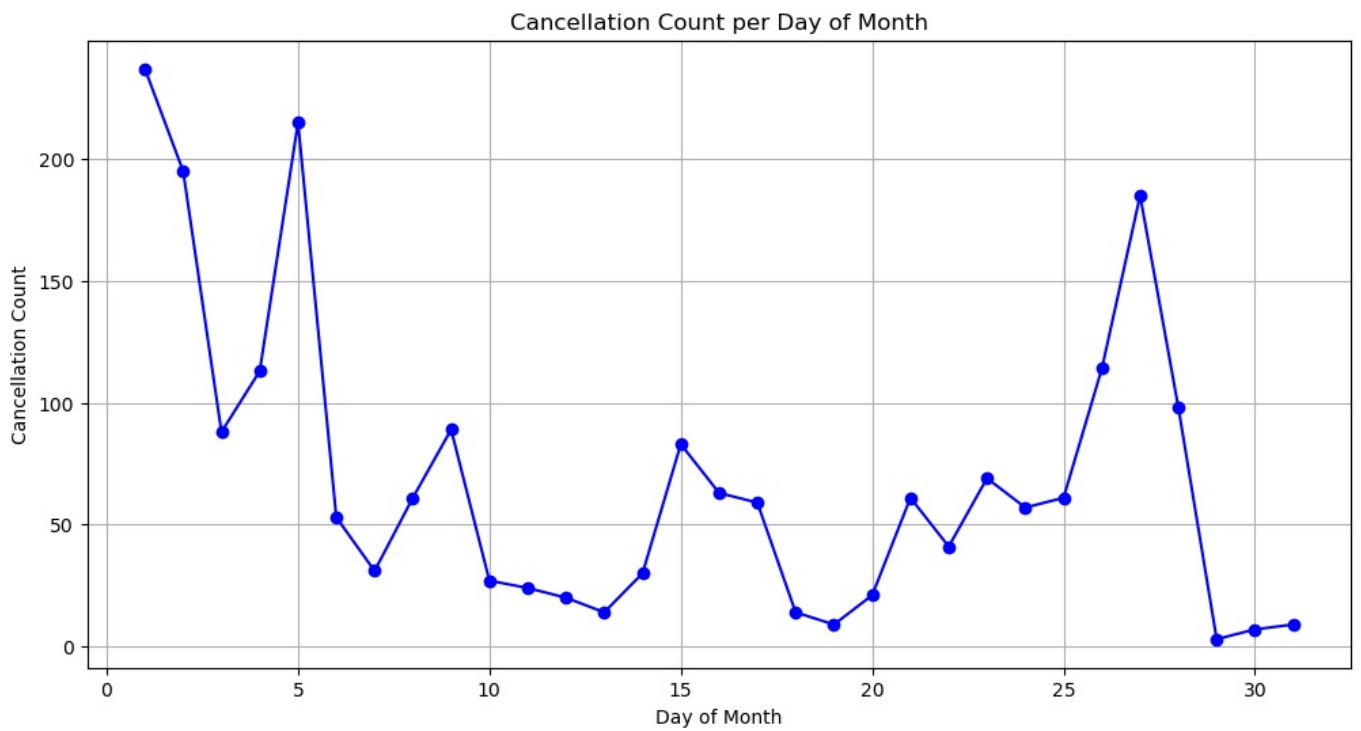
```
In [698... day_week_avg_arrival_delay =pd.DataFrame(collection.aggregate([
    {"$group":
        {
            "_id" :"$DAY_OF_WEEK",
            "avg_arrival_delay":{"$avg":"$ARRIVAL_DELAY"}
        }
    },
    {"$sort":{"_id":1}}
]))
plt.figure(figsize=(10, 6))
plt.bar(day_week_avg_arrival_delay['_id'], day_week_avg_arrival_delay['avg_arrival_delay'])
plt.xlabel('Airline')
plt.ylabel('Average Arrival Delay')
plt.title('Average Arrival Delay by Airline')
plt.show()

# plt.figure(figsize=(12, 6))
# plt.plot(day_month_avg_arrival_delay['_id'], day_month_avg_arrival_delay['avg_arrival_day'], marker='o', line:
# plt.xlabel('Day of Month')
# plt.ylabel('Average Arrival Delay')
# plt.title('Average Arrival Delay by Day of the Month')
# plt.grid(True)
# plt.show()
```



11. Arrange Days of month as per cancellations done in descending order. [Create a suitable plot using matplotlib/seaborn]

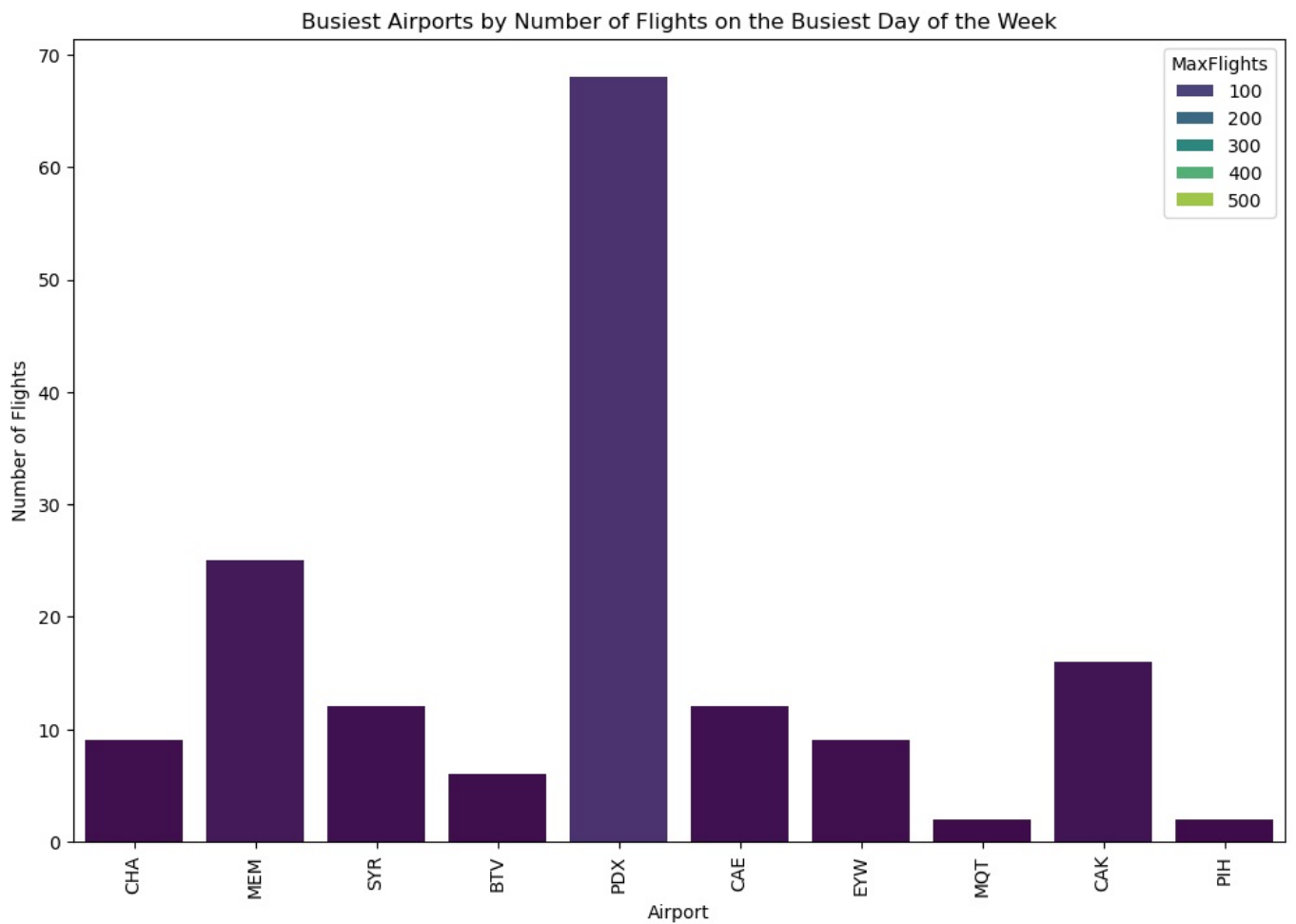
```
In [699: cancellation_count_per_day=pd.DataFrame(collection.aggregate([
    {"$match":
        {
            "CANCELLED":1
        }
    },
    {"$group":
        {
            "_id":"$DAY",
            "Cancellation_count":{"$sum": 1}
        }
    },
    {"$sort":
        {
            "_id":-1
        }
    }
]))
# cancellation_count_per_day
plt.figure(figsize=(12, 6))
plt.plot(cancellation_count_per_day['_id'], cancellation_count_per_day['Cancellation_count'], marker='o', color='red')
plt.xlabel('Day of Month')
plt.ylabel('Cancellation Count')
plt.title('Cancellation Count per Day of Month')
plt.grid(True)
plt.show()
```

12. Find the busiest airports with respect to day of week. Represent it by using suitable plot.

```
In [700]: df = pd.DataFrame(collection.aggregate( [
    {"$group": {
        "_id": {"Airport": "$ORIGIN_AIRPORT", "Day": "$DAY_OF_WEEK"},
        "flight_count": {"$sum": 1}
    }},
    {"$sort": {"_id.Airport": 1, "flight_count": -1}},
    {"$group": {
        "_id": "$_id.Airport",
        "DayOfWeekWithMaxFlights": {"$first": "$_id.Day"},
        "MaxFlights": {"$first": "$flight_count"}
    }
  ]))

plt.figure(figsize=(12, 8))
sns.barplot(x=df['_id'][:10], y=df['MaxFlights'][:10], palette='viridis', hue=df['MaxFlights'])
plt.xlabel('Airport')
plt.ylabel('Number of Flights')
plt.title('Busiest Airports by Number of Flights on the Busiest Day of the Week')
plt.xticks(rotation=90)
plt.show()
```



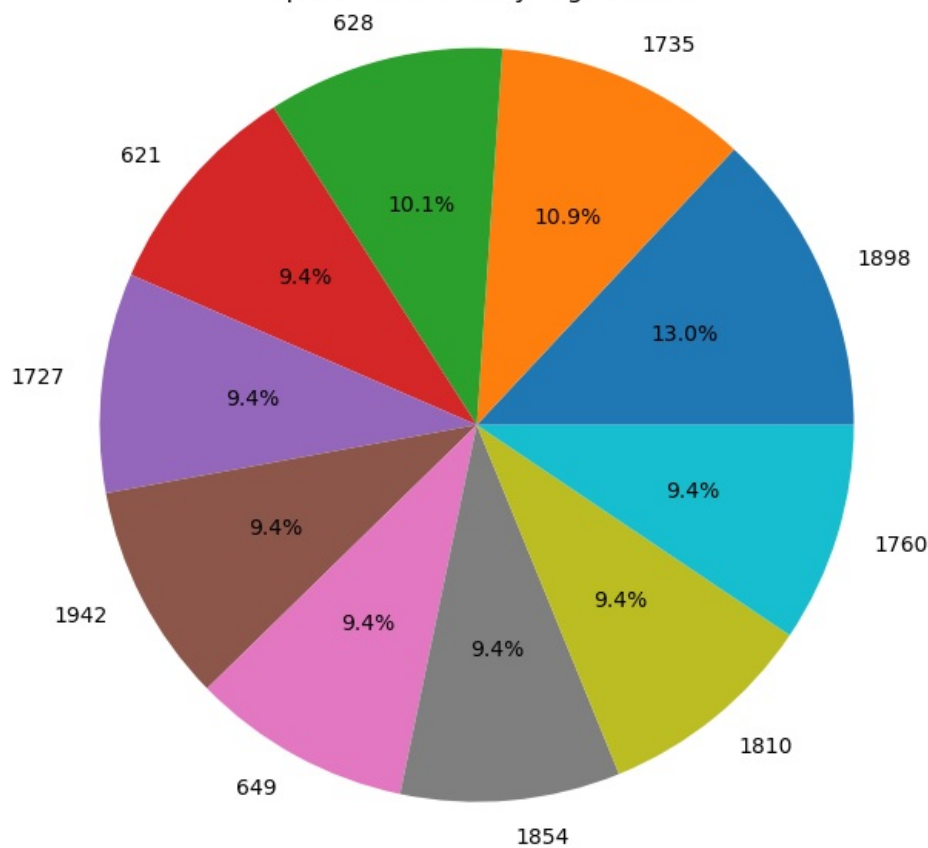
In []:

13. Find top 10 Airlines of US. Represent it by using suitable plot.

```
In [70]: result = pd.DataFrame(collection.aggregate([
    {
        '$match': {'AIRLINE': 'US'}
    },
    {
        '$group':
        {
            '_id': '$FLIGHT_NUMBER',
            'Flight_Count': {'$sum': 1}
        }
    },
    {
        '$project':
        {
            '_id': 0,
            'FLIGHT_NUMBER': '$_id',
            'Flight_Count': 1
        }
    },
    {
        '$sort':
        {
            'Flight_Count': -1
        }
    },
    {
        '$limit': 10
    }
]))

plt.figure(figsize=(10, 7))
plt.pie(result['Flight_Count'], labels=result['FLIGHT_NUMBER'], autopct='%1.1f%%')
plt.title('Top 10 US Airlines by Flight Count')
plt.axis('equal')
plt.show()
```

Top 10 US Airlines by Flight Count



14. Finding airlines that make the maximum, minimum number of cancellations.

```
In [702...] pd.DataFrame(collection.aggregate([
    {
        '$match': { 'CANCELLED': 1 }
    },
    {
        '$group': {
            '_id': '$AIRLINE',
            'cancellations': { '$sum': 1 }
        }
    },
    {
        '$facet': {
            'max': [
                { '$sort': { 'cancellations': -1 } },
                { '$limit': 1 }
            ],
            'min': [
                { '$sort': { 'cancellations': 1 } },
                { '$limit': 1 }
            ]
        }
    }
]))
```

```
Out[702...]
```

	max	min
0	[{'_id': 'MQ', 'cancellations': 414}]	[{'_id': 'HA', 'cancellations': 3}]

15. Find and show airlines names in descending that make the most number of diversions made. [Create a suitable plot using matplotlib/seaborn]

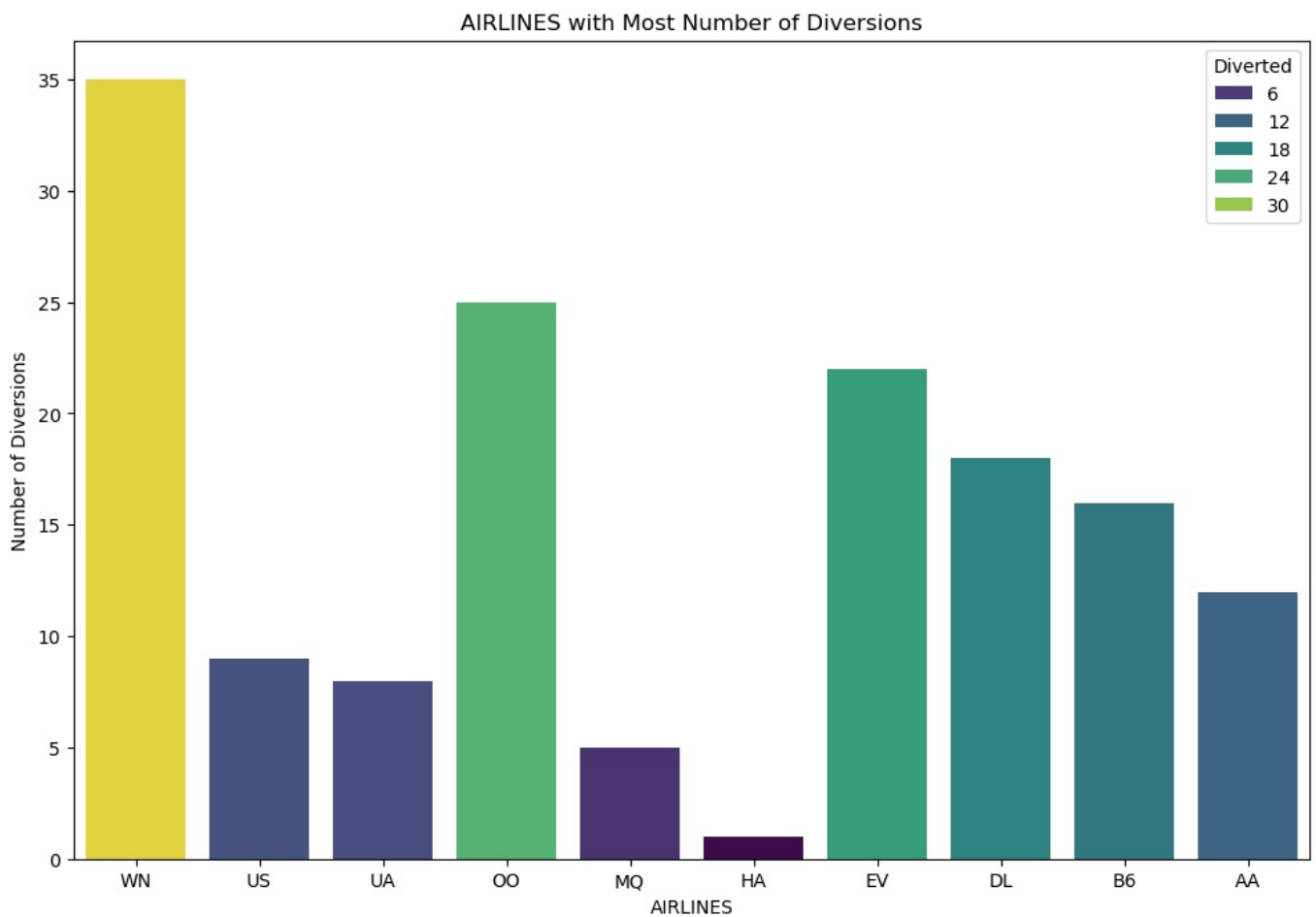
```
In [703...] df = pd.DataFrame(collection.aggregate([
    { '$match': { 'DIVERTED': 1 } },
    {
        '$group': {
            '_id': '$AIRLINE',
            'Diverted': { '$sum': '$DIVERTED' }
        }
    },
    {
        '$sort': {
```

```

        "_id":-1
    }
}
)))

plt.figure(figsize=(12, 8))
sns.barplot(x=df['_id'], y=df['Diverted'], palette='viridis', hue=df['Diverted'])
plt.xlabel('AIRLINES')
plt.ylabel('Number of Diversions')
plt.title('AIRLINES with Most Number of Diversions')
plt.show()

```



16. Finding days of month that see the most number of diversion and delays.

```

In [704...] pd.DataFrame(collection.aggregate([
    {
        "$group":
        {
            "_id":"$DAY",
            "total_diversions":{"$sum": "$DIVERTED"},
            "total_delay": {"$sum":{"$add": ["$ARRIVAL_DELAY", "$DEPARTURE_DELAY"]}}
        }
    },
    {
        "$project":
        {
            "_id":0,
            "DAY":"$_id",
            "total_diversions":1,
            "total_delay":1,
        }
    },
    {
        "$sort":
        {
            "total_delay":-1,
            "total_diversion":-1
        }
    }
]
)))

```

Out [704...

	total_diversions	total_delay	DAY
0	12	93482.382267	4
1	5	89013.042153	3
2	11	87888.040815	5
3	15	83444.060757	2
4	13	69743.055446	1
5	7	66690.840215	6
6	3	43927.005877	26
7	4	42470.343722	12
8	5	37673.087510	8
9	9	36363.756716	9
10	4	36335.291150	16
11	3	33324.247496	17
12	0	27578.527421	22
13	6	25587.409222	7
14	0	23988.849297	24
15	4	23647.871143	21
16	3	23647.769771	27
17	1	22466.563860	25
18	4	20973.560089	20
19	6	20852.616634	23
20	5	20776.716467	11
21	2	20210.005512	13
22	5	18703.970977	18
23	4	18519.887641	28
24	1	17531.803940	15
25	1	13801.416400	19
26	8	11124.271045	14
27	5	10682.520042	30
28	1	9446.158283	10
29	1	4191.169105	29
30	3	2888.507315	31

17. Write a MongoDB query to find the flights with the shortest and longest AIR_TIME. Return the flightNumber, airline, and AIR_TIME.

In [705...

```
time_data = collection.aggregate([
    {'$facet':{
        'long': [
            {'$project': {'_id': 0, 'FLIGHT_NUMBER': 1, 'AIRLINE':1, 'AIR_TIME':1}},
            {'$sort': {'AIR_TIME':-1}},
            {'$limit': 1}
        ],
        'short': [
            {'$project': {'_id': 0, 'FLIGHT_NUMBER': 1, 'AIRLINE':1, 'AIR_TIME':1}},
            {'$sort': {'AIR_TIME':1}},
            {'$limit': 1}
        ]
    }}
])

for x in time_data:
    print(x)
```

```
{'long': [{'AIRLINE': 'UA', 'FLIGHT_NUMBER': 15, 'AIR_TIME': 654.0}], 'short': [{'AIRLINE': 'AS', 'FLIGHT_NUMBER': 65, 'AIR_TIME': 9.0}]}
```

18. Finding all diverted Route from a source to destination Airport & which route is the most diverted route.

In [706...

```
pd.DataFrame(collection.aggregate([
    {'$match': {'DIVERTED': 1}},
```

```

    {'$group': {
      '_id': {
        'ORIGIN_AIRPORT': '$ORIGIN_AIRPORT',
        'DESTINATION_AIRPORT': '$DESTINATION_AIRPORT'
      },
      'COUNT': {'$sum': 1}
    }},
    {'$project': {
      '_id': 0,
      'ORIGIN_AIRPORT': '$_id.ORIGIN_AIRPORT',
      'DESTINATION_AIRPORT': '$_id.DESTINATION_AIRPORT',
      'COUNT': 1
    }},
    {'$sort': {'COUNT': -1}},
    {'$limit': 1}
  )))

```

Out[706..

	COUNT	ORIGIN_AIRPORT	DESTINATION_AIRPORT
0	2	JFK	SEA

19. Write a MongoDB aggregation pipeline to calculate the all aggregated values for departure delay (DEPARTURE_DELAY) and arrival delay (ARRIVAL_DELAY) for each airline, excluding flights that were either cancelled or diverted.

In [707..

```

pd.DataFrame(collection.aggregate([
    {
      "$match": {
        "CANCELLED": 0,
        "DIVERTED": 0
      }
    },
    {
      "$group": {
        "_id": "$AIRLINE",
        "avg_departure_delay": {"$avg": "$DEPARTURE_DELAY"},
        "avg_arrival_delay": {"$avg": "$ARRIVAL_DELAY"}
      }
    },
    {
      "$sort": {
        "avg_departure_delay": -1
      }
    }
  ]))

```

Out[707..

	_id	avg_departure_delay	avg_arrival_delay
0	F9	23.514687	24.103448
1	MQ	16.762569	19.231593
2	B6	15.888144	13.958525
3	NK	15.527751	14.206426
4	UA	14.167578	6.697222
5	OO	11.471067	10.154792
6	EV	11.424400	10.884271
7	AA	11.414849	8.386632
8	WN	10.064346	3.697840
9	DL	9.922761	2.814473
10	VX	9.857143	5.128571
11	US	7.753136	5.977315
12	AS	2.312579	-1.531766
13	HA	1.190808	4.072423

20. Write a MongoDB query to find all flights that were delayed due to WEATHER_DELAY but were not cancelled or diverted. Include the flightNumber, airline, originAirport, and destinationAirport in the results.

In [708..

```

pd.DataFrame(collection.find(
    {
      "WEATHER_DELAY": {"$gt": 0},

```

```

        "CANCELLED": 0,
        "DIVERTED": 0
    },
    {
        "_id": 0,
        "FLIGHT_NUMBER": 1,
        "AIRLINE": 1,
        "ORIGIN_AIRPORT": 1,
        "DESTINATION_AIRPORT": 1
    }
})

```

Out[708..

	AIRLINE	FLIGHT_NUMBER	ORIGIN_AIRPORT	DESTINATION_AIRPORT
0	UA	532	ORD	DCA
1	US	1784	BWI	PHX
2	MQ	3019	ORD	OKC
3	MQ	3564	GSO	LGA
4	UA	1667	ORD	PDX
...
958	MQ	2942	ORD	DAY
959	UA	1549	MCO	ORD
960	MQ	3457	ROC	ORD
961	DL	2449	LGA	DTW
962	OO	6358	IDA	DEN

963 rows × 4 columns

21. Write a MongoDB query to find all flights that were delayed both at departure (DEPARTURE_DELAY) and arrival (ARRIVAL_DELAY). Return the count of such Flights which are delayed.

In [709..

```

pd.DataFrame(collection.aggregate([
    {"$match": {
        "ARRIVAL_DELAY": {"$gt": 0.0},
        "DEPARTURE_DELAY": {"$gt": 0.0},
    }},
    {'$group': {
        "_id": "null",
        "delay_count": {"$sum": 1}
    }},
    {
        "$project": {
            "_id": 0,
            "delay_count": 1
        }
    }
]))

```

Out[709..

	delay_count
0	18697

22. Write a MongoDB query to calculate the frequency of flight takeoffs and landings within defined time intervals (e.g., every hour) throughout the day. Generate a Suitable Plot.

In [710..

```

results = list(collection.aggregate([
    {
        "$project": {
            "hour_of_day": { "$floor": { "$divide": [ "$WHEELS_OFF", 100 ] } },
            "flight_type": { "$cond": [ { "$gt": [ "$WHEELS_OFF", "$WHEELS_ON" ] }, "takeoff", "landing" ] }
        }
    },
    {
        "$group": {
            "_id": { "hour": "$hour_of_day", "type": "$flight_type" },
            "count": { "$sum": 1 }
        }
    },
    {
        "$group": {
            "_id": "$_id.hour",

```

```

        "takeoffs": { "$sum": { "$cond": [ { "$eq": [ "$_id.type", "takeoff" ] }, "$count", 0 ] } },
        "landings": { "$sum": { "$cond": [ { "$eq": [ "$_id.type", "landing" ] }, "$count", 0 ] } }
    },
    { "$sort": { "_id": 1 } }
]))

```

```

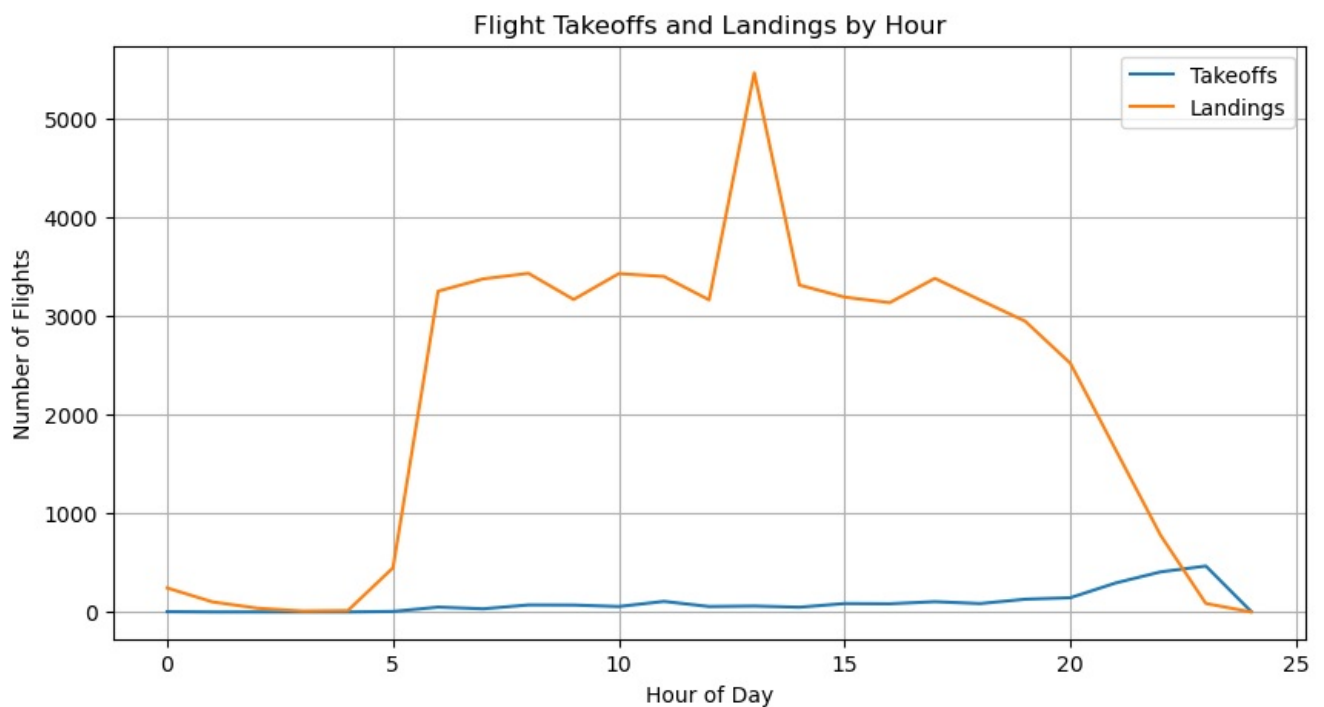
hours = [int(result['_id']) for result in results]
takeoffs = [result['takeoffs'] for result in results]
landings = [result['landings'] for result in results]

```

```

plt.figure(figsize=(10, 5))
plt.plot(hours, takeoffs, label='Takeoffs')
plt.plot(hours, landings, label='Landings')
plt.xlabel('Hour of Day')
plt.ylabel('Number of Flights')
plt.title('Flight Takeoffs and Landings by Hour')
plt.legend()
plt.grid(True)
plt.show()

```



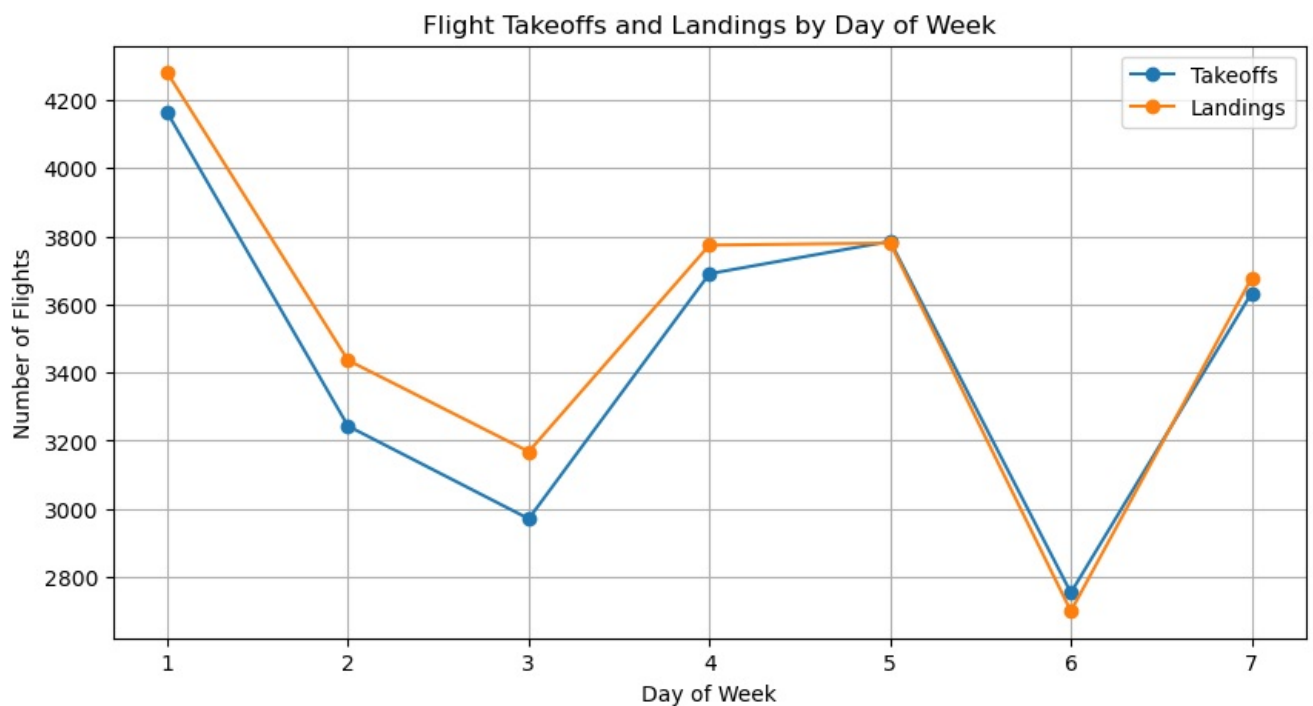
23. Write a MongoDB query to calculate the frequency of flight takeoffs and landings within defined week of day. Generate a Suitable Plot.

```

In [711]: df = pd.DataFrame(collection.aggregate([
    {
        "$group": {
            "_id": "$DAY_OF_WEEK",
            "takeoffs": { "$sum": { "$cond": [ { "$gt": [ "$DEPARTURE_DELAY", 0 ] }, 1, 0 ] } },
            "landings": { "$sum": { "$cond": [ { "$gt": [ "$ARRIVAL_DELAY", 0 ] }, 1, 0 ] } }
        }
    },
    {
        "$sort": {
            "_id": 1
        }
    }
]))

plt.figure(figsize=(10, 5))
plt.plot(df['_id'], df['takeoffs'], marker='o', label='Takeoffs')
plt.plot(df['_id'], df['landings'], marker='o', label='Landings')
plt.xlabel('Day of Week')
plt.ylabel('Number of Flights')
plt.title('Flight Takeoffs and Landings by Day of Week')
plt.legend()
plt.grid(True)
plt.show()

```

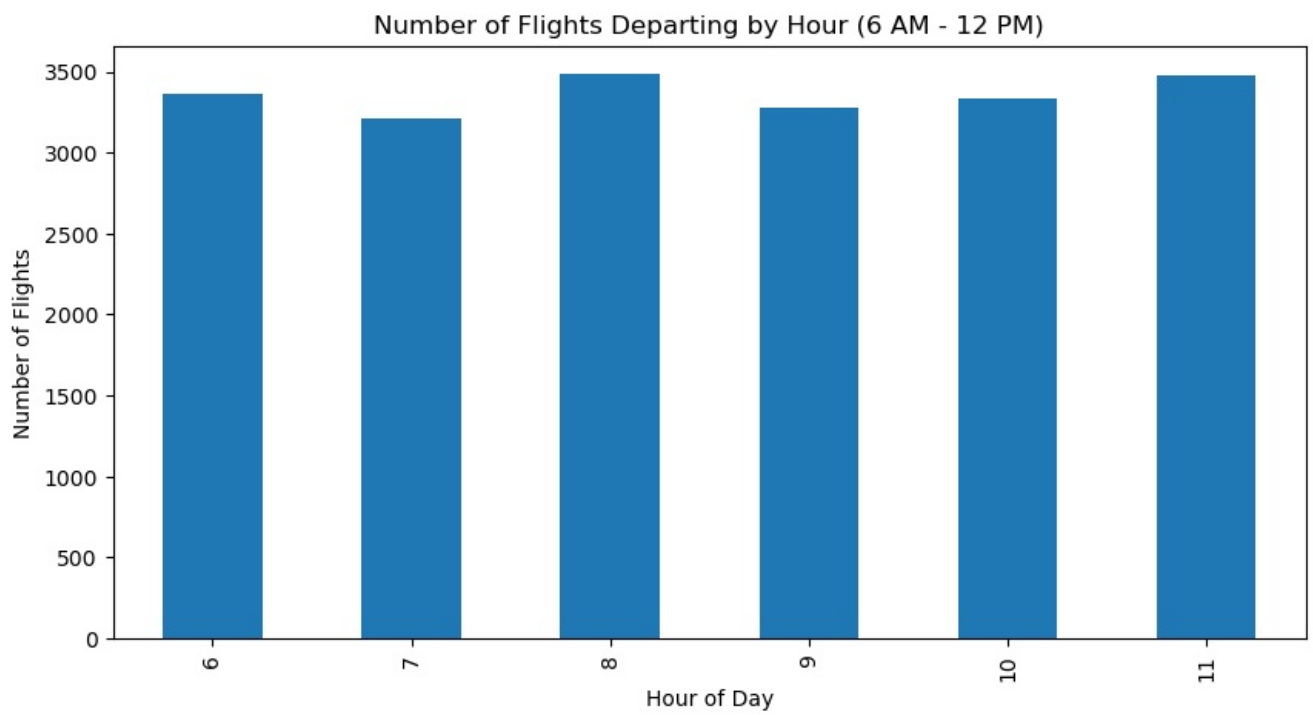
24. Write a MongoDB query to find all flights that departed between 6 AM and 12 PM (noon) local time, regardless of the date. Return the flightNumber, airline, and departureTime. Generate a Bar Plot using Time (x-axis) and Frequency (y-axis).

```
In [712]: query = [
    {
        "$match": {
            "DEPARTURE_TIME": {
                "$gte": 600,
                "$lt": 1200
            }
        }
    },
    {
        "$project": {
            "FLIGHT_NUMBER": 1,
            "AIRLINE": 1,
            "DEPARTURE_TIME": 1
        }
    }
]

data = list(collection.aggregate(query))
df = pd.DataFrame(data)

df['DEPARTURE_HOUR'] = (df['DEPARTURE_TIME'] // 100).astype(int)

plt.figure(figsize=(10, 5))
df['DEPARTURE_HOUR'].value_counts().sort_index().plot(kind='bar')
plt.xlabel('Hour of Day')
plt.ylabel('Number of Flights')
plt.title('Number of Flights Departing by Hour (6 AM - 12 PM)')
plt.show()
```



25. When is the best time of day/day of week/time of a year to fly with minimum delays?

```
In [713]: pd.DataFrame(collection.aggregate([
    {
        "$group":
        {
            "_id": "$DAY",
            "avg_delay": {"$avg": {"$add": ['$ARRIVAL_DELAY', '$DEPARTURE_DELAY']}}
        }
    },
    {
        "$sort":
        {
            "avg_delay": 1,
        }
    }
]))
```

Out[713...

	_id	avg_delay
0	31	4.389829
1	29	5.037463
2	10	5.210236
3	14	7.376838
4	19	8.344266
5	15	10.835478
6	18	11.247126
7	7	11.286903
8	13	11.303135
9	23	12.180267
10	28	12.216285
11	30	12.264661
12	20	12.337388
13	11	12.691947
14	9	13.879296
15	25	14.050384
16	27	14.092831
17	8	15.677523
18	21	15.765247
19	24	16.186808
20	22	16.504206
21	16	21.076155
22	17	22.470834
23	12	25.661839
24	6	25.689846
25	26	25.839415
26	1	31.024491
27	2	31.559781
28	5	33.557862
29	4	35.143753
30	3	35.877889

In [714...

```
pd.DataFrame(collection.aggregate([
    {
        "$group":
        {
            "_id": "$DAY_OF_WEEK",
            "avg_delay": {"$avg": {"$add": ['$ARRIVAL_DELAY', '$DEPARTURE_DELAY']}}
        }
    },
    {
        "$sort":
        {
            "avg_delay": 1,
        }
    }
]))
```

Out[714...

	_id	avg_delay
0	6	14.678226
1	3	14.824947
2	5	16.199401
3	4	18.090532
4	2	19.374128
5	7	23.601915
6	1	24.667675

In [715...

```
pd.DataFrame(collection.aggregate([
    {
        "$group":
        {
            "_id": "$MONTH",
            "avg_delay": {"$avg": {"$add": ['$ARRIVAL_DELAY', '$DEPARTURE_DELAY']}}
        }
    },
    {
        "$sort":
        {
            "avg_delay": 1,
        }
    }
]))
```

Out[715...

	_id	avg_delay
0	1	15.689143
1	2	19.950781
2	3	25.768867

In []: