



GLOBAL AND DOMESTIC AVIATION DATA INSIGHTS

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DATASET OVERVIEW :

The dataset “**Airport.csv**” contains detailed information about airports from around the world.

Key attributes are:

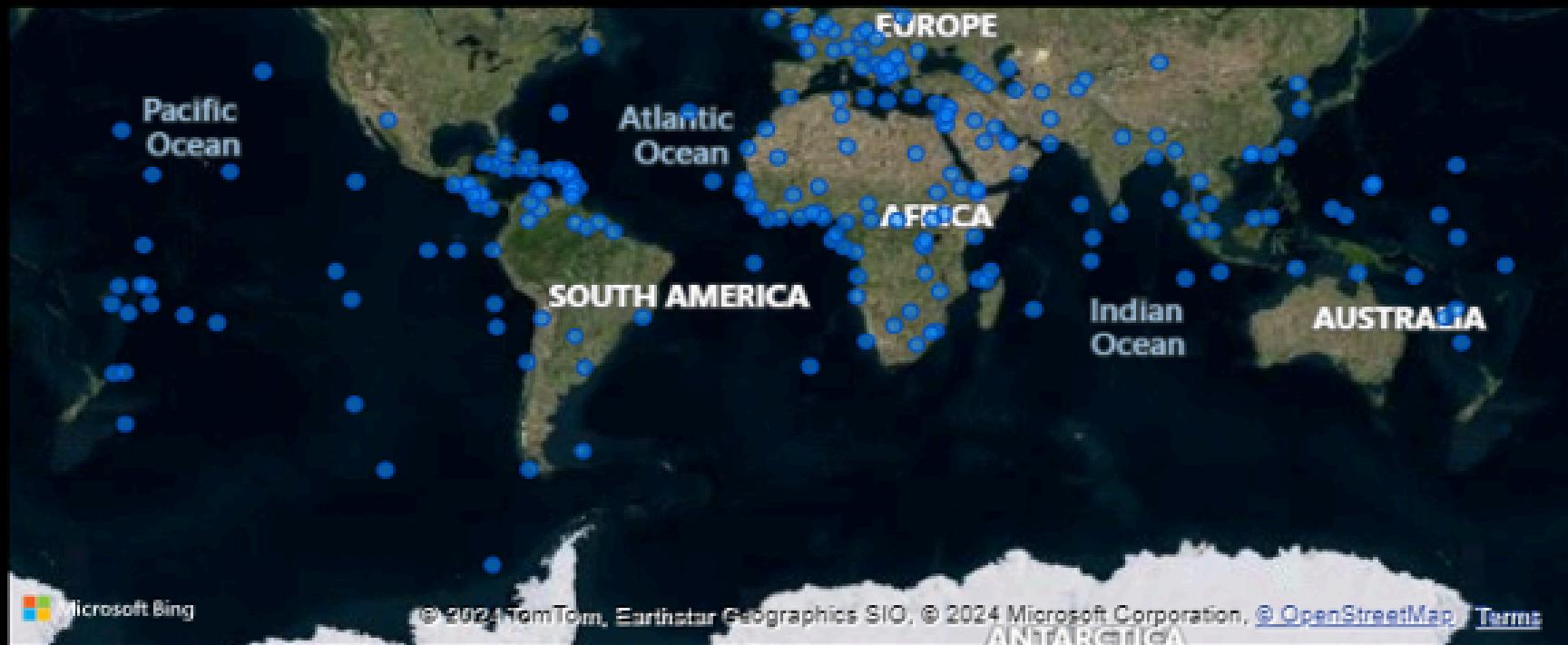
- Airport_ID: Specific code for airport given by OpenFlights
- Name: Name of the Airport
- City: City where the airport is located
- Country: Country where the airport is located
- IATA: Specific code given by IATA(3 letters)
- ICAO: Specific code given by ICAO(4 letters)
- Latitude: Geographical Information in 6 digits
- Longitude: Geographical Information in 6 digits
- Altitude: In feet
- Timezone: Hours offset from UTC
- DST: Daylight savings time
- TZ: Timezone region

DASHBOARD

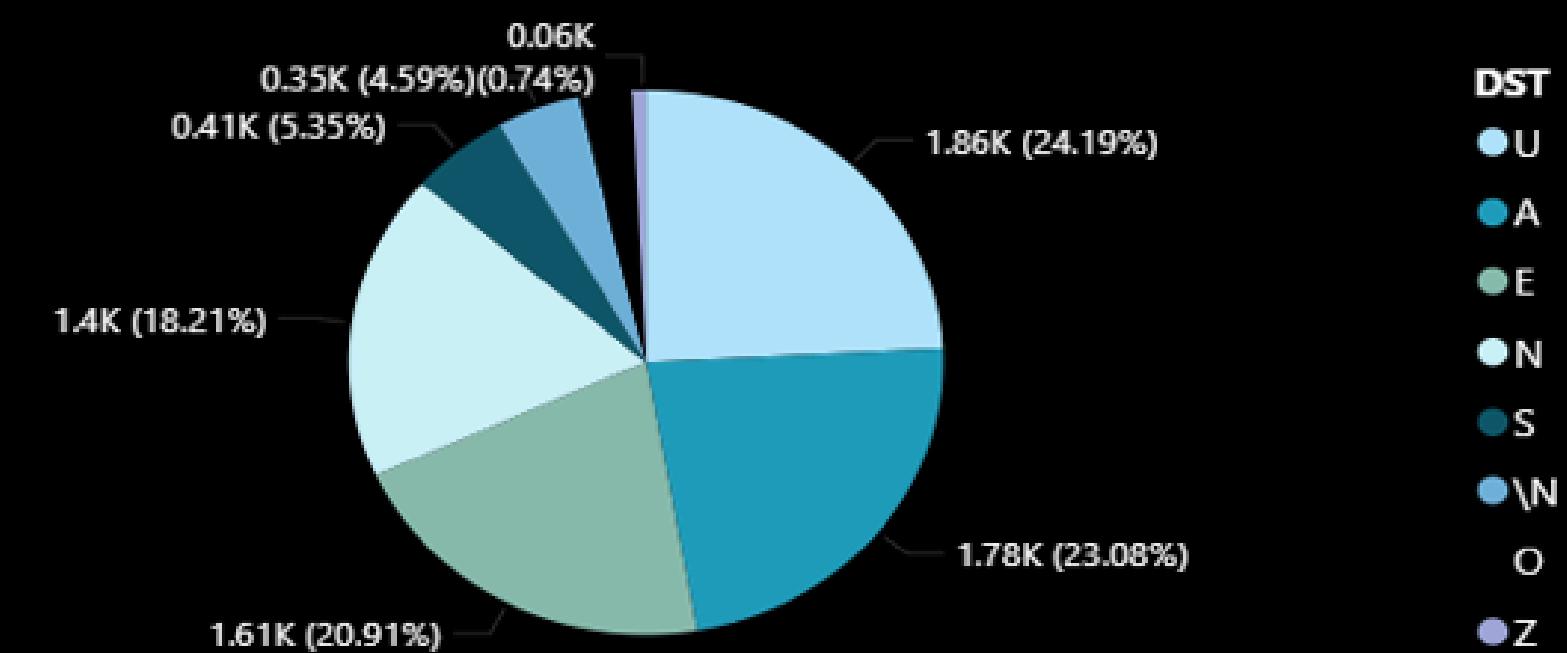
LET'S DIVE INTO DATA VISUALIZATIONS POWERED BY POWER BI.

Global Aviation Data Insights

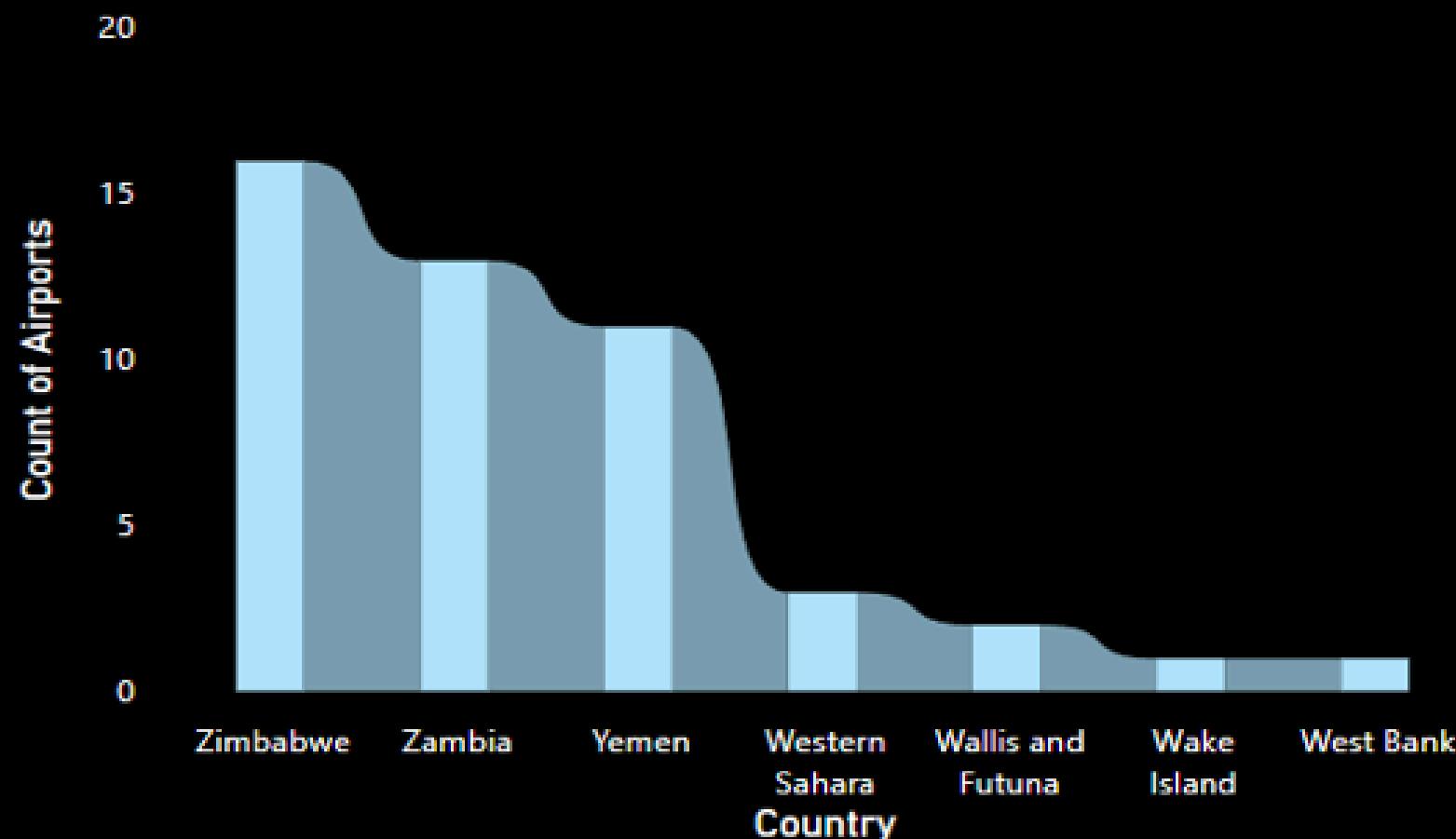
Airport Locations on World Map



Daylight Saving Time (DST) vs Non-DST Airports

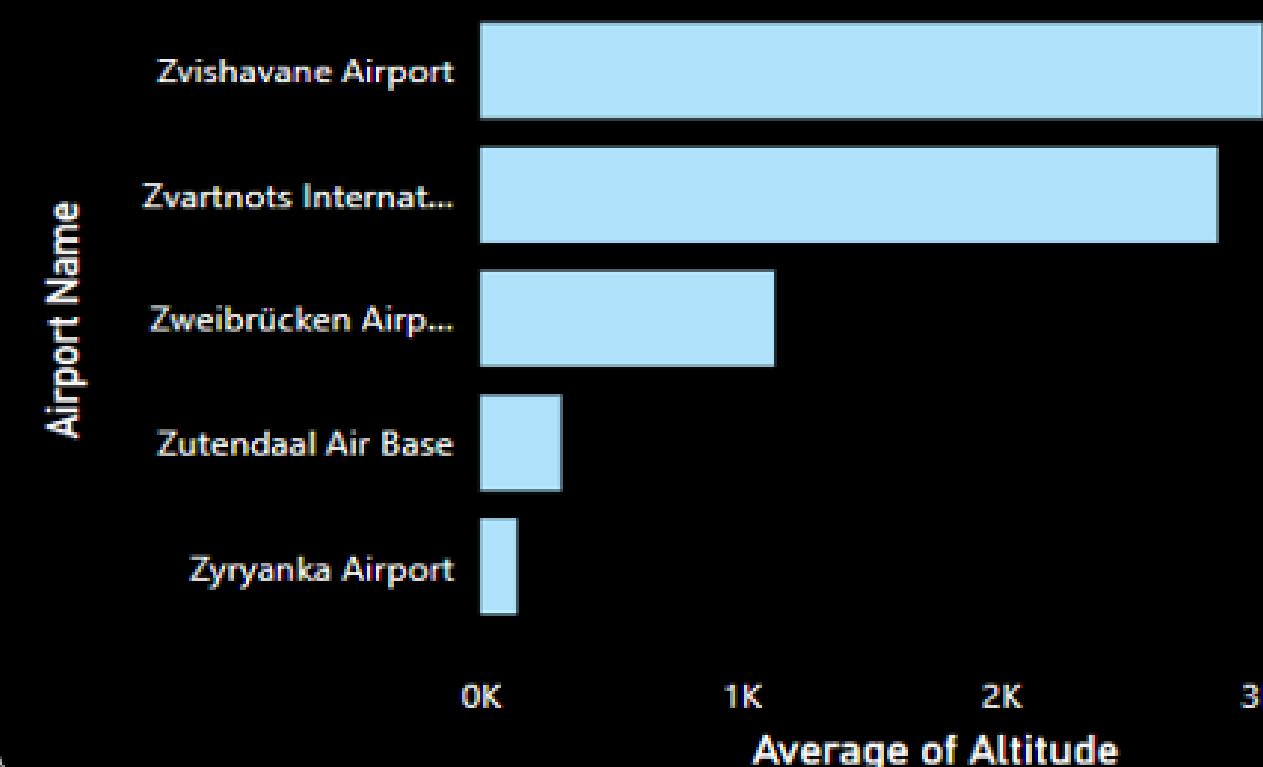


Number of Airports by Top 7 Countries



Top 5 Altitude Comparison of Airports

Country ● Armenia ● Belgium ● Germany ● Russia ● Zimbabwe



7658

Total Airports

237

Total Countries

6947

Total Cities

ANALYSIS FOCUS :

- **Global Distribution:** Map airport locations to identify global patterns and major hubs.
- **Top 7 Countries:** Assess the number of airports in the top 7 countries.
- **DST Comparison:** Compare airport distribution with and without Daylight Saving Time.
- **Altitude Comparison:** Evaluate the altitudes of the top 5 highest airports.
- **Overall Statistics:** Summarize total airports, countries, and cities.

DATASET OVERVIEW :

The dataset “**US_Airport.csv**” focuses on airports and flight traffic within the United States.

Key attributes are:

- Origin_airport: Three letter airport code of the origin airport.
- Destination_airport: Three letter airport code of the destination airport.
- Origin_city: Origin city name.
- Destination_city: Destination city name.
- Passengers: Number of passengers transported from origin to destination.
- Seats: Number of seats available on flights from origin to destination.
- Flights: Number of flights between origin and destination in that month.
- Distance: Distance (to nearest mile) flown between origin and destination.
- Fly_date: The date (yyyymm) of flight.
- Origin_population: Origin city's population as reported by US Census.
- Destination_population: Destination city's population as reported by US Census.

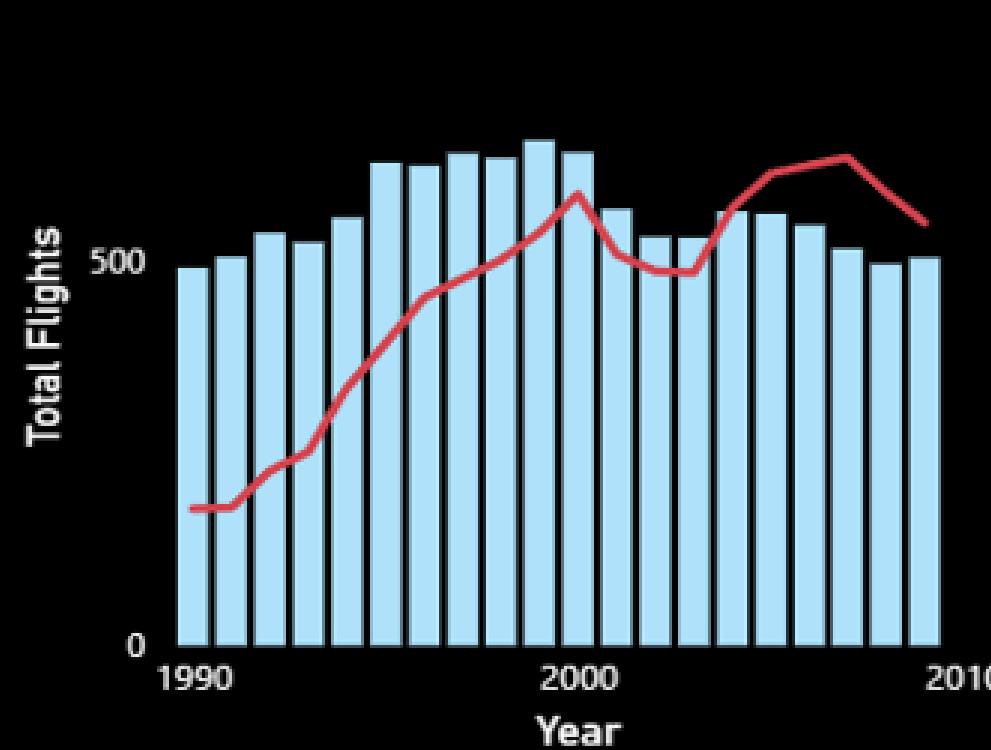
DASHBOARD

LET'S DIVE INTO DATA VISUALIZATIONS POWERED BY POWER BI.

US Domestic Aviation Data Insights

Flights and Passenger Trends Over Time

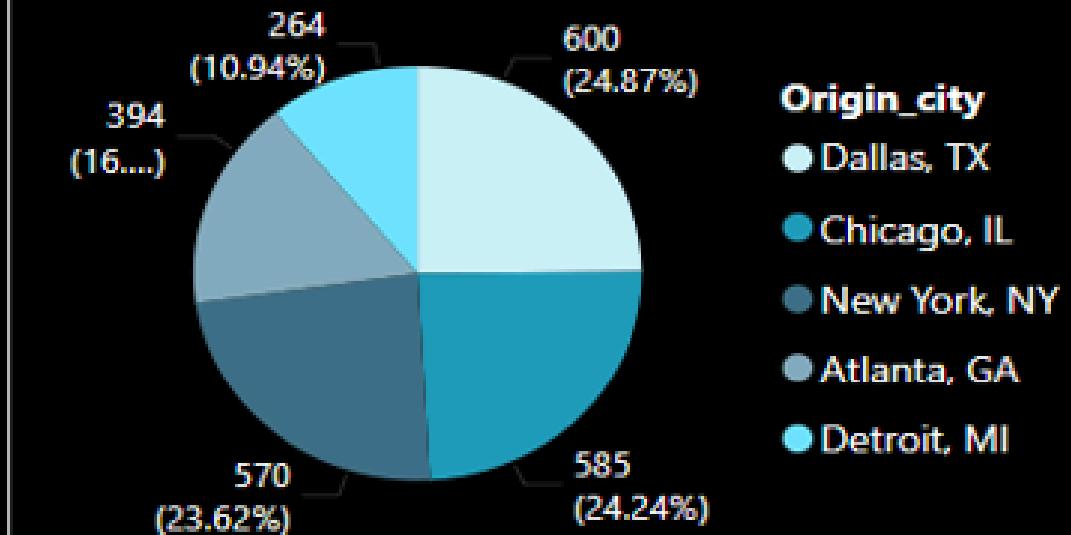
Total Flights • Total Passengers



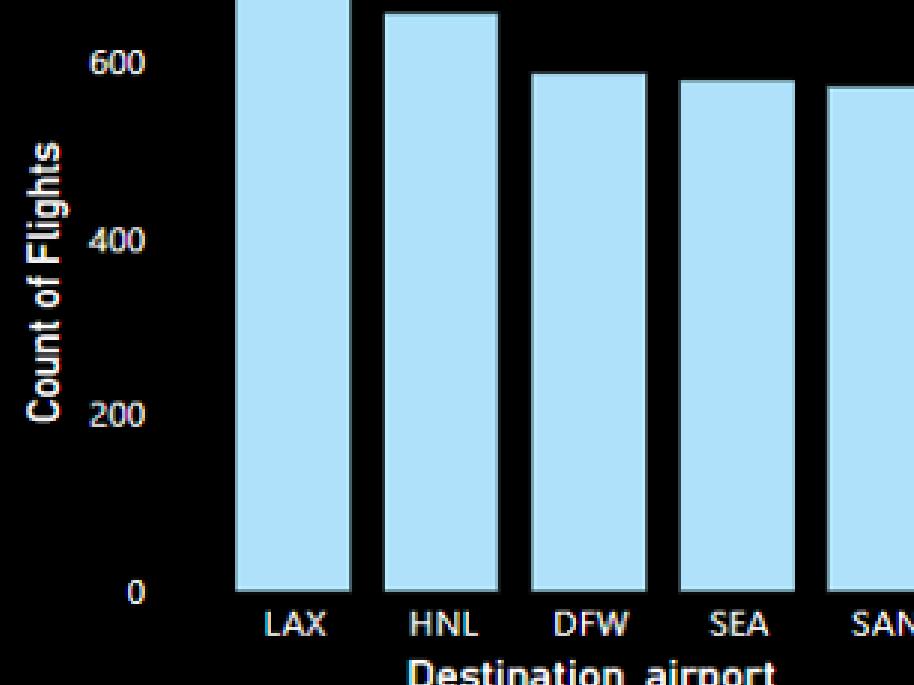
Flight Route Map



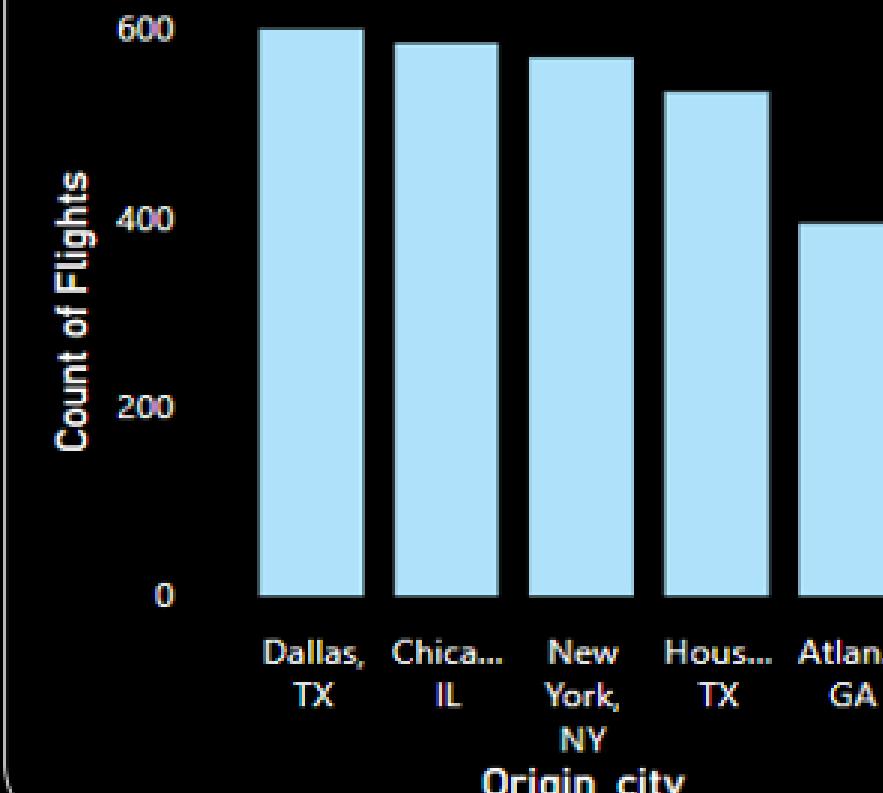
Flight Density by Origin City



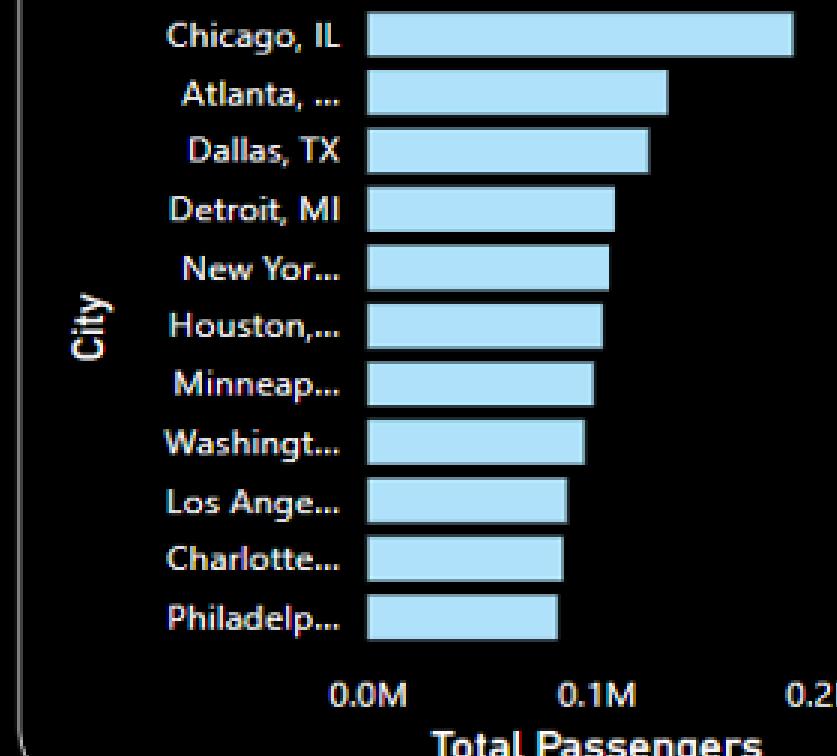
Top 5 Destination Airports by Number of Flights



Top 5 Origin Cities by Number of Flights



Passenger Distribution by Cities



Total Passengers



708

Total Destination Airport

683

Total Origin Airport

ANALYSIS FOCUS :

- **Trends Over Time:** Track changes in flight and passenger numbers monthly.
- **Route Mapping:** Visualize flight routes between origin and destination airports.
- **Flight Density:** Analyze flight density by origin city.
- **Top Locations:** Identify the top 5 destination airports and origin cities by flight count.
- **Passenger Distribution:** Assess passenger distribution relative to flights.
- **Overall Metrics:** Summarize total passengers, origin airports, and destination airports.

THANK YOU

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