**Airline Analysis Solution**

In this project, the airline database is analysed using Hive queries. In this use case, there are 3 data sets in text file: airlines, airports, route.

**Dataset Description:**

**Airlines:**

It contains following columns separated by comma:

1. Unique ID of Airline
2. Name of the Airline
3. Alias of the Airline
4. IATA code (2-letter code, if available)
5. ICAO code (3-letter code, if available)
6. Callsign of the Airline
7. Country or Territory where the airline is incorporated
8. Operational status (If active - Y, If not active -N) This field is not reliable. Major airlines that stopped flying long ago, but have not had their IATA code reassigned (eg.Ansett/AN), will incorrectly show as "Y".

**Airports:**

It contains following columns separated by comma:

1. Unique ID of the Airport
2. Name of the Airport (May or may not contain city name)
3. City name (Main city served by airport).
4. Country or territory where the airport is located.
5. IATA/FAA code (3-letter FAA code, for airports located in "United States of America"; 3- letter IATA code, for all other airports; Blank if not assigned).
6. ICAO code (4-letter ICAO code; Blank if not assigned).
7. Latitude (Decimal degrees, usually to six significant digits. Negative is South, positive is North).
8. Longitude (Decimal degrees, usually to six significant digits. Negative is West, positive is East)..
9. Altitude (In feet).
10. Timezone (Hours offset from UTC. Fractional hours are expressed as decimals, eg. India is 5.5)
11. DST Daylight savings time. One of E (Europe), A (US/Canada), S (South America), O (Australia), Z (NewZealand), N (None) or U (Unknown).
12. Tz database time (Timezone in "tz" (Olson) format, eg. "America/Los\_Angeles")

**Routes:**

1. IATA code (2-letter) or ICAO code (3-letter) of the airline
2. Unique Airline ID
3. Source Airport
4. Source Airport ID
5. Destination Airport ID
6. Codeshare "Y" if this flight is a codeshare (that is, not operated by Airline, but another carrier),empty otherwise
7. Stops (Number of stops on this flight ("0" for direct))
8. Equipment( 3 -letter codes for plane type(s) generally used on this flight, separated by spaces)

**Problem Statement:**

1. Find list of Airports operating in the Country India
2. Find the list of Airlines having zero stops
3. List of Airlines operating with code share
4. Which country (or) territory having highest Airports
5. Find the list of Active Airlines in United state