Airlines Assignment

Create Airport Table

```
CREATE  TABLE airport (airportid int,
   name String,
   city String,
   Country String,
   iatafaa String,
   icao String,
   latitude String,
   longitude String,
   altitude String,
   dst String, tz String)
   ROW FORMAT DELIMITED FIELDS TERMINATED BY ','LINES TERMINATED BY '\n' STORED AS textfile
LOCATION '/user/praveenkum79edu/data';
```

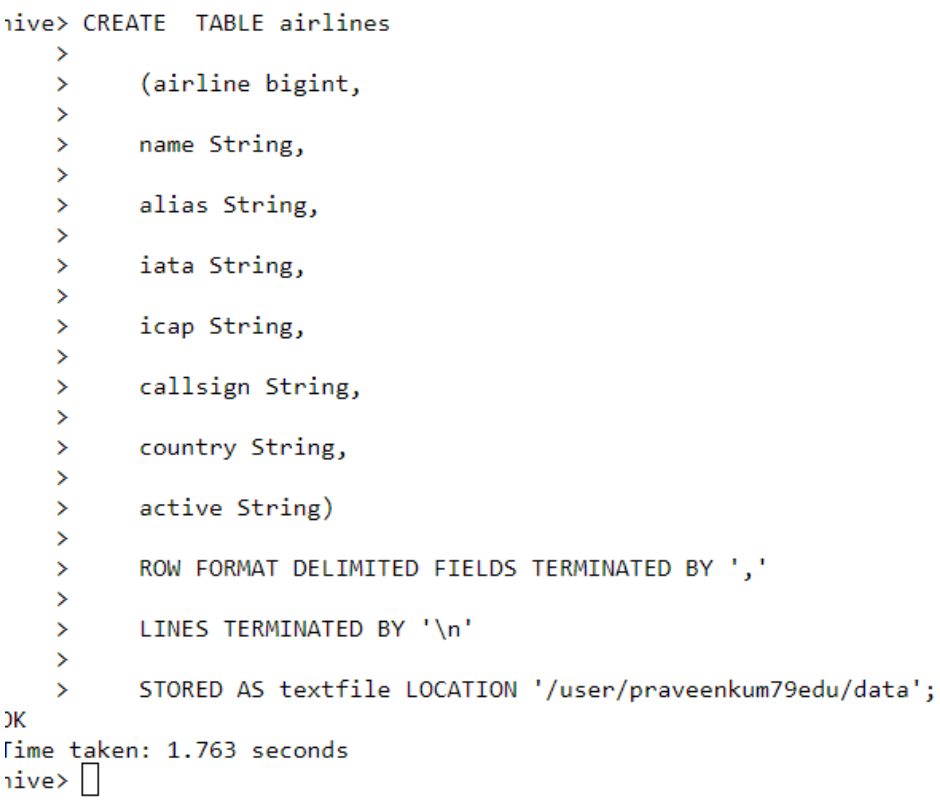
Hive screen shot:

```
hive> CREATE  TABLE airport (airportid int,
    >
    >     name String,
    >
    >     city String,
    >
    >     Country String,
    >
    >     iatafaa String,
    >
    >     icao String,
    >
    >     latitude String,
    >
    >     longitude String,
    >
    >     altitude String,
    >
    >     dst String, tz String)
    >
    >     ROW FORMAT DELIMITED FIELDS TERMINATED BY ','LINES TERMINATED BY '\n' STORED AS textfile LOCATION '/user/praveenkum79edu/data';
OK
Time taken: 1.93 seconds
```

Create Airlines Table

```
CREATE  TABLE airlines
   (airline bigint,
   name String,
   alias String,
   iata String,
   icap String,
   callsign String,
   country String,
   active String)
   ROW FORMAT DELIMITED FIELDS TERMINATED BY ','
   LINES TERMINATED BY '\n'
   STORED AS textfile LOCATION '/user/praveenkum79edu/data';
```

Hive Screenshot:



Create Routes Table

```
CREATE  TABLE routes
    (airline String,
    airlineid int,
    sourceairport String,
    sourceairportid int,
    destinationairport String,
    destinationairportid int,
    codeshare String,
    stops int,
    equipment String)
    ROW FORMAT DELIMITED FIELDS TERMINATED BY ','
    LINES TERMINATED BY '\n'
    STORED AS textfile  LOCATION '/user/praveenkum79edu/data';
```

Hive Screen shot:

```
hive> CREATE  TABLE routes
    >
    >       (airline String,
    >
    >       airlineid int,
    >
    >       sourceairport String,
    >
    >       sourceairportid int,
    >
    >       destinationairport String,
    >
    >       destinationairportid int,
    >
    >       codeshare String,
    >
    >       stops int,
    >
    >       equipment String)
    >
    >       ROW FORMAT DELIMITED FIELDS TERMINATED BY ','
    >
    >       LINES TERMINATED BY '\n'
    >
    >       STORED AS textfile  LOCATION '/user/praveenkum79edu/data';
OK
Time taken: 0.082 seconds
hive>
```

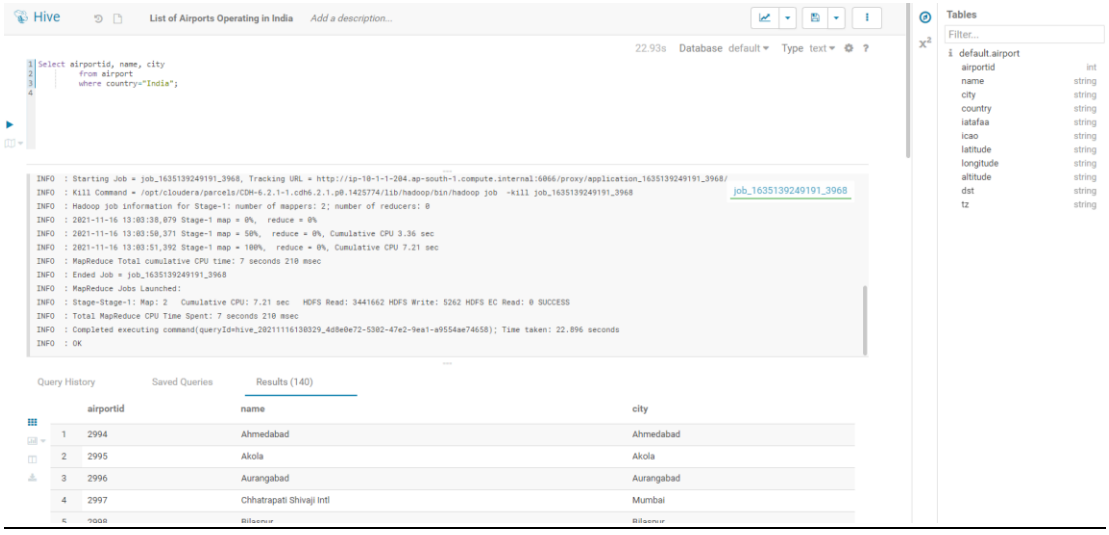
Problem Statement

A. Find list of Airports operating in the Country India

Solution:

```
Select airportid, name, city
 from airport
 where country="India";
```

Result screenshot:



B. Find the list of Airlines having zero stops.

Solution:

```
Select distinct(airlines.airline), airlines.name
From airlines  join   routes   on
airlines.airline=routes.airlineid
where routes.stops=0 ;
```

C. List of Airlines operating with code share

Solution:

```
SELECT DISTINCT(airlines.name) FROM airlines JOIN routes ON
airlines.airline=routes.airlineid WHERE routes.codeshare='Y';
```

D. Which country (or) territory having highest Airports

Solution:

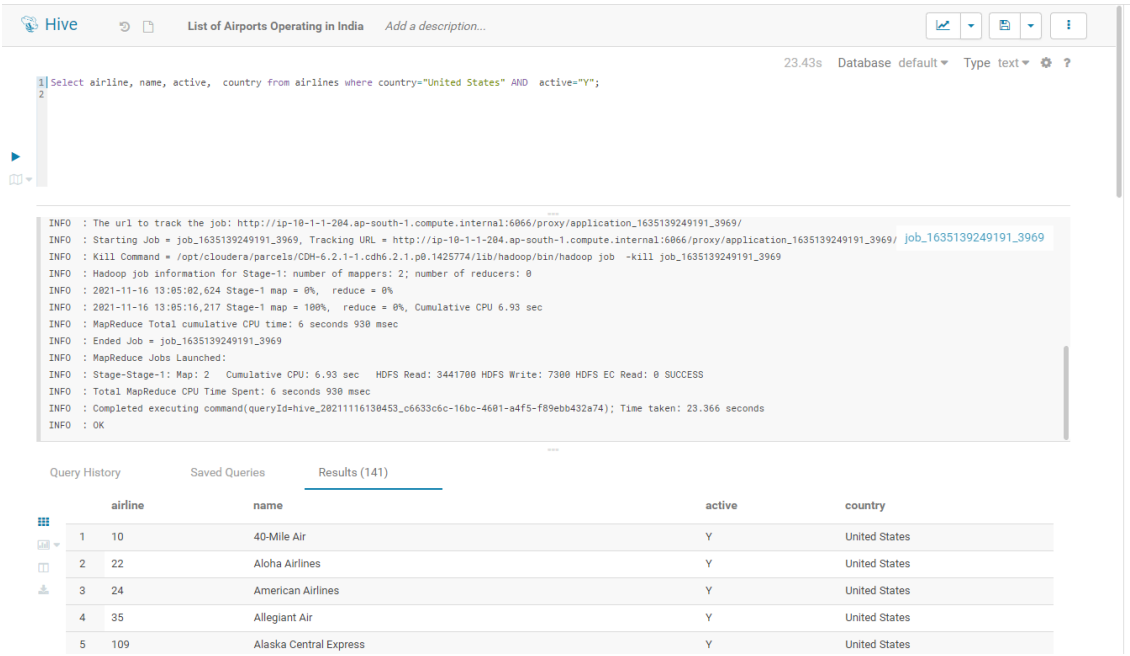
```
select      country, count(*) as AirportCount
from        airport
group       by      country
order       by      AirportCount desc limit  1;
```

<u>Output Screen shot:</u>

E. Find the list of Active Airlines in United state

Select airline, name, active, country from airlines where country="United States" AND active="Y";

Output Screen shot:



	airline	name	active	country
1	10	40-Mile Air	Y	United States
2	22	Aloha Airlines	Y	United States
3	24	American Airlines	Y	United States
4	35	Allegiant Air	Y	United States
5	109	Alaska Central Express	Y	United States