Airlines Analysis

Creating and Loading Tables

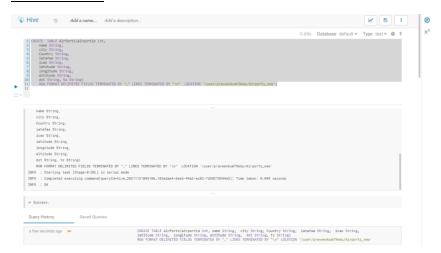
• Create Airports Table and load airports_mod.data file into table

Query:

CREATE TABLE AirPorts(airportid int, name String, city String, Country String, iatafaa String, icao String, latitude String, longitude String, altitude String, dst String, tz String, dst String, tz String)

ROW FORMAT DELIMITED FIELDS TERMINATED BY "," LINES TERMINATED BY "\n" LOCATION '/user/praveenkum79edu/Airports_new';

Hive Screenshot:

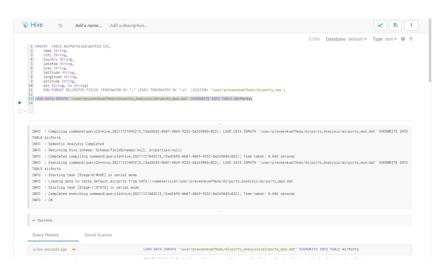


Load Data Into Airports Table:

Query:

 $LOAD\ DATA\ INPATH\ '/user/praveenkum79edu/Airports_Analysis/airports_mod.dat'\ OVERWRITE\ INTO\ TABLE\ AirPorts;$

Hivwe Screenshot:

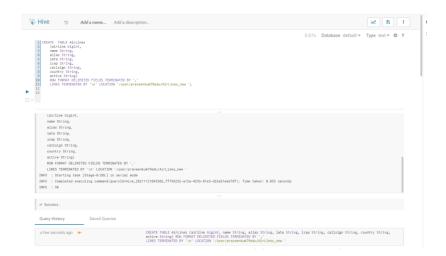


Create AirLines Table and load Final_airlines data file into table

Query:

```
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/Airports_Analysis_new ';
```

Hive Screenshot:



Load Data into Airliens Table:

LOAD DATA INPATH '/user/praveenkum79edu/Airports_Analysis/Final_airlines.txt' OVERWRITE INTO TABLE AirLines;

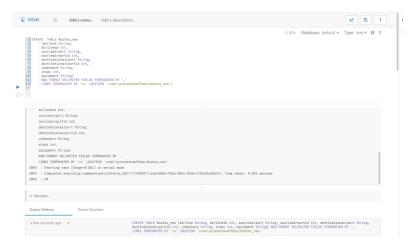


• Create Routes Table and load Routes.dat data file into table

Query:

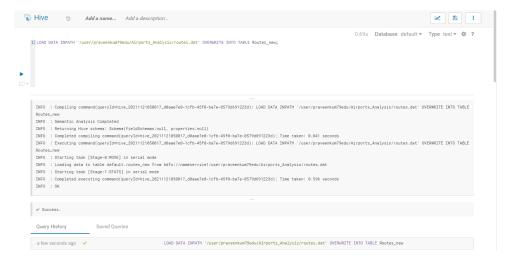
```
CREATE TABLE Routes_new
(airline String,
airlineid int,
sourceairport String,
sourceairportid int,
destinationairport String,
destinationairportid int,
codeshare String,
stops int,
equipment String)
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n' LOCATION '/user/praveenkum79edu/Routes_new';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

Hive Screenshot:



Load data into Routes Table:

LOAD DATA INPATH '/user/praveenkum79edu/Airports_Analysis/routes.dat' OVERWRITE INTO TABLE Routes_new;

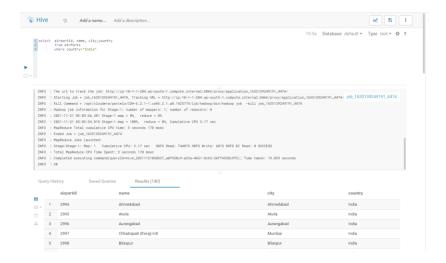


Problem statements:

Find list of Airports operating in the Country India

Solution:

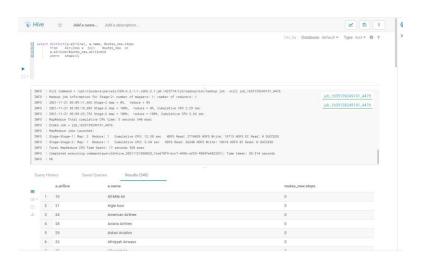
Select airportid, name, city,country from AirPorts where country="India"



Find the list of Airlines having zero stops.

Solution:

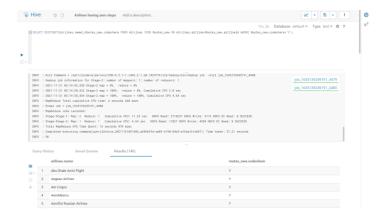
Select distinct(a.airline), a.name, Routes_new.stops From AirLines a join Routes_new on a.airline=Routes_new.airlineid where stops=0;



List of Airlines operating with code share

Solution:

SELECT DISTINCT(AirLines.name), Routes_new.codeshare FROM AirLines JOIN Routes_new ON AirLines.airline=Routes_new.airlineid WHERE Routes_new.codeshare='Y';



Which country (or) territory having highest Airports

Solution:

select country, count(*) as AirportCount

from AirPorts

group by country

order by AirportCount desc limit 1;



Find the list of Active Airlines in United state

Solution:

select airline, name, active, country from AirLines where country="United States" AND active="Y"

