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USE airline\_db;

CREATE EXTERNAL TABLE airport\_stg (iata string,airport string,city string,state string,country string,

lat decimal,long decimal)

ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

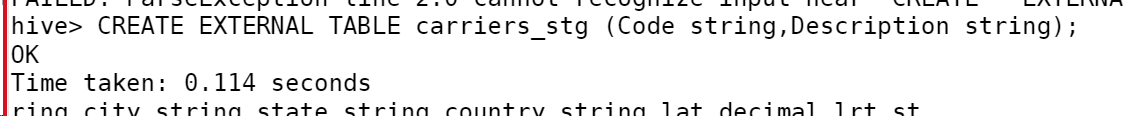
LINES TERMINATED BY '\n'

STORED As TextFile

tblproperties(

"skip.header.line.count"="1"

);



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**Check if the tables have data.**

select \* from k\_airline\_db.flights\_stg limit 5;

select \* from k\_airline\_db.plane\_info\_stg limit 5;

select \* from k\_airline\_db.airport\_stg limit 5;

select \* from k\_airline\_db.carriers\_stg limit 5;

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**What is the average arrival delay and average departure delay in each month of the year 2004?**

hive> select month , AVG(ArrDelay), AVG(DepDelay) from k\_airline\_db.flights\_stg where year = 2004 group by month;

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**3. Improving the performance of Hive tables - Parquet format**

Create the parquet table as external tables for flights from the above staging table.

Name the new table with \_pq as a suffix: Ex : flights\_pq

Point all the table location output/airline/pq\_flights

hive> [maverickavitha@ip-10-1-1-204 ~]$ hdfs dfs -mkdir -p output/airline/pq\_flights

hive> CREATE EXTERNAL TABLE flight\_pq (Year int,Month int,DayofMonth int,DayOfWeek int,DepTime int,CRSDepTime int,ArrTime

int,CRSArrTime int,UniqueCarrier string,FlightNum string,TailNum string,ActualElapsedTime int,CRSElapsedTime int,AirTime

int,ArrDelay int,DepDelay int,Origin string,Dest string,Distance int,TaxiIn string,TaxiOut string,Cancelled string,Cance

llationCode string,Diverted string,CarrierDelay int,WeatherDelay int,NASDelay int,SecurityDelay int,LateAircraftDelay int

) STORED AS PARQUET location '/user/maverickavitha/output/airline/pq\_flights';

hive> insert overwrite table k\_airline\_db.flight\_pq select \* from k\_airline\_db.flights\_stg;

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**Run the same query as above to check if data is loaded properly**

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**Is there a difference between the response times for the queries(2 and 3)**

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**AVG Calculation in PARQUET format:**

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**AVG Calculation in normal STG table:**

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A screenshot of a computer

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A close-up of a computer screen

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