### HIVE

## Q1.

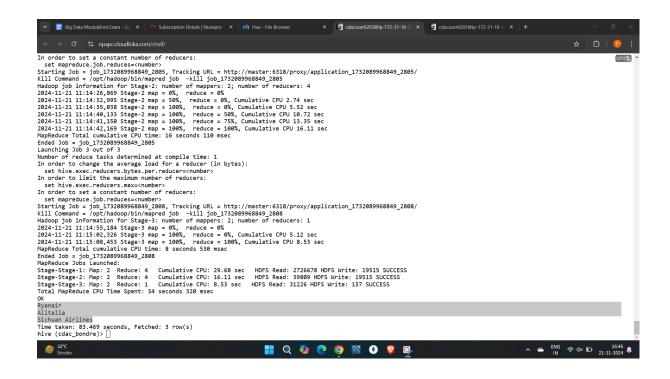
1.

→ select a.name from airports a join routes r on a.id = r.airline\_id where r.source\_airport\_Id = 2965 and r.destination\_airport\_Id is null;

```
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```

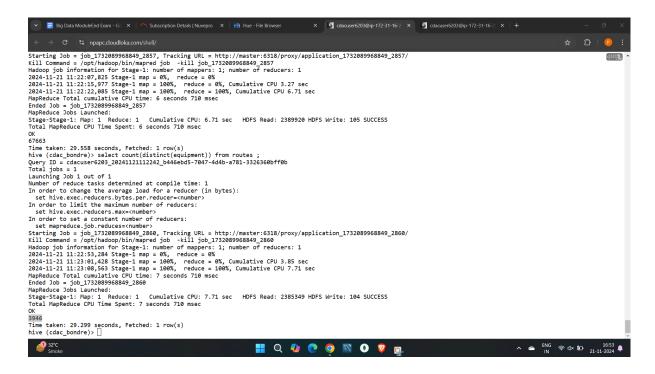
2.

 $\rightarrow$  select distinct(a.name) from airlines a join routes r on a.id = r.airline id order by max(source airport id) desc limit 3;



3 .

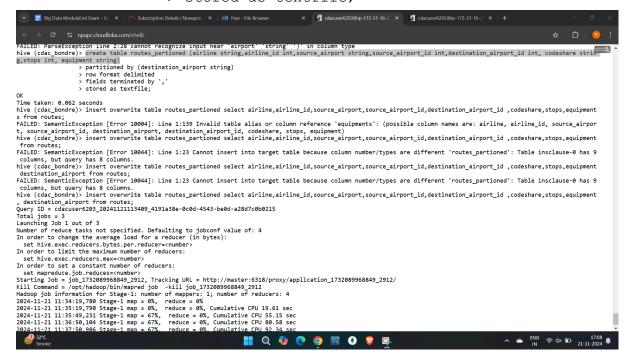
→ select count(distinct(equipment)) from routes ;



1.

→ create table routes\_partioned (airline string, airline\_id int, source\_airport string, source\_airport\_id int, destination\_airport\_id int, codeshare strin g, stops int, equipment string)

- > partitioned by (destination airport string)
- > row format delimited
- > fields terminated by ','
- > stored as textfile;



2.

→ insert overwrite table routes\_partioned select
airline,airline\_id,source\_airport,source\_airport\_id,destination\_ai
rport\_id ,codeshare,stops,equipment
s from routes;

The query got stucked in between the i have shared the query with ScreenShot

```
Time taken: 0.862 seconds
hive (Code_Donner) Sinsert overwrite table routes_partioned select airline,airline_id,source_airport_source_airport_id,destination_airport_id ,codeshare,stops,equipment
s from routes;
FALIED: SemanticException [Error 18084]: Line 1:33 Invalid table alias or column reference 'equipment': (possible column names are: airline, airline_id, source_airport
hive (Code_Donner) Sinsert overwrite table routes_partioned select airline,airline_id,source_airport_source_airport_id, destination_airport_id destination_airport_id destination_airport_id destination_airport_id destination_airport_id destination_airport_id destination_airport_id (acceptable column)
hive (Code_Donner) Sinsert overwrite table routes_partioned select airline,airline_id,source_airport_source_airport_id,destination_airport_id ,codeshare,stops,equipment
from routes;
FALIED: SemanticException [Error 18044]: Line 1:23 Cannot insert into target table because column number/types are different 'routes_partioned': Table insclause-0 has 9
columns, but query has 8 columns.
hive (Code_Donner) Sinsert overwrite table routes_partioned select airline,airline_id,source_airport_source_airport_id,destination_airport_id ,codeshare,stops,equipment
for columns, but query has 8 columns.
hive (Code_Donner) Sinsert overwrite table routes_partioned select airline,airline_id,source_airport_source_airport_id,destination_airport_id ,codeshare,stops,equipment
query 10 = Codesner@201.2024111113499_4191a38e-0c6d-4543-bed-a28d7cbb215

Query 10 = Codesner@201.2024111113499_4191a38e-0c6d-4543-bed-a28d7cbb215

Launching 10b 1 out of 3

Number of reduce tasks not specified. Defaulting to jobconf value of: 4

In order to change the average load for a reducer is
set hive_excer_reducers_bytes_per_reducers_ser_number)

In order to change the average load for a reducer of mappers 1: 1; number of reducers:
set hive_excer_reducers_bytes_per_reducers_ser_number)

In order to change the average load for a reducer of mappers 1: 1; number of reducers:
set hive_excer_reduc
```

#### 03

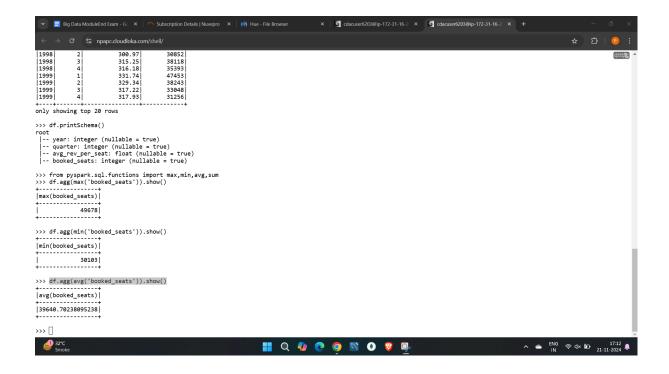
 $\rightarrow$ 

## SPARK

# Q2

```
1.
```

```
Max- df.agg(max('booked_seats')).show()
Min- df.agg(min('booked_seats')).show()
Avg- df.agg(avg('booked seats')).show()
```



```
2.

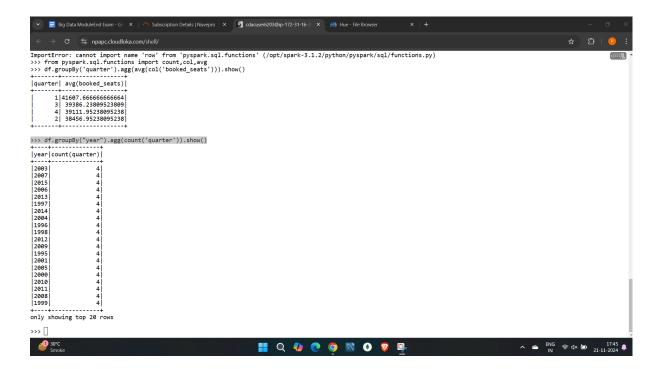
→
df.agg(count(col('avg_rev_per_seat'))).agg(col('avg_rev_per_seat')
<290).show()

3.

→ df.groupBy('quarter').agg(avg(col('booked_seats'))).show()</pre>
```

#### 4.

→ df.groupBy("year").agg(count('quarter')).show()



```
5.
```

```
→ df.agg('quarter').agg(sum(col('avg_rev_per_seat') *
col('booked_seats')).alias("revenue")).agg(max(col("revenue"))).sh
ow()
```