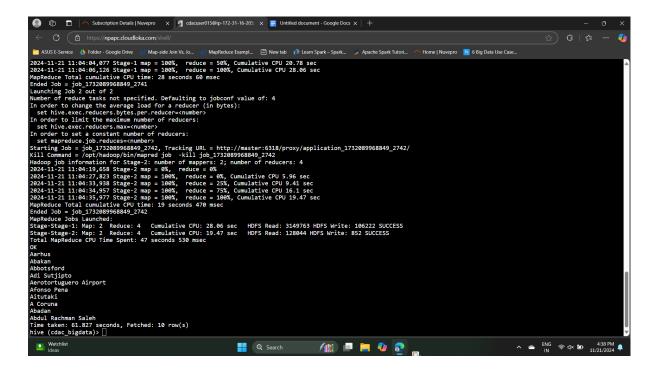
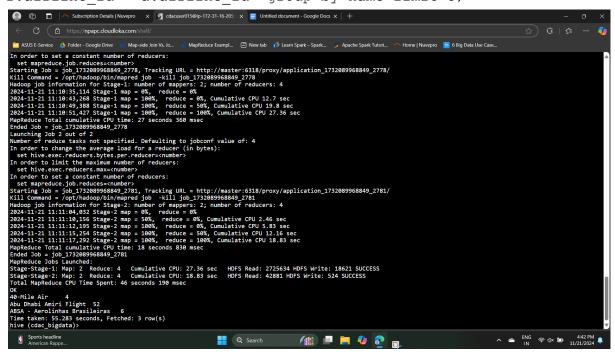
Q1.

1.

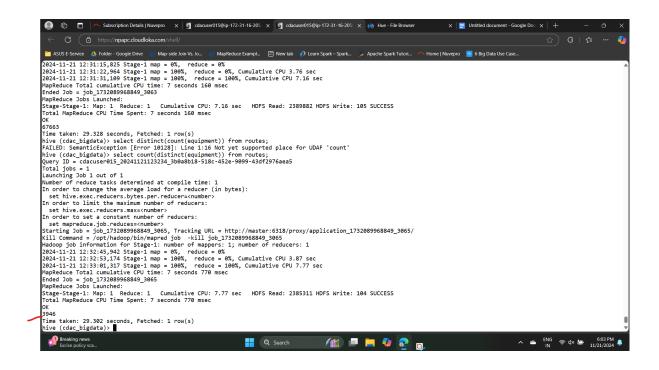
Select a.name from airports a join routes r
On a.airport_id = r.airport_id
Limit 0;



2.
select a.name ,count(*) from airlines a join routes r on
r.airline id = a.airline id group by name limit 3;



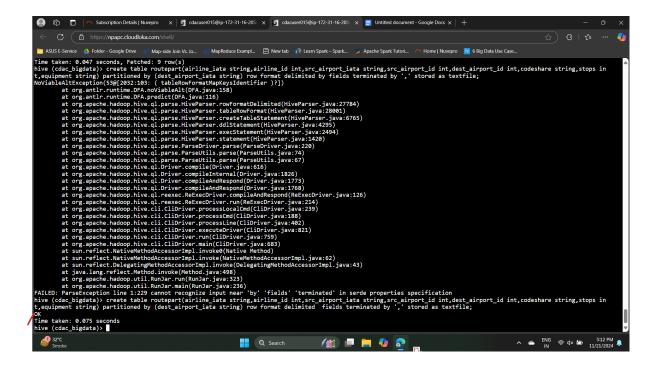
Q3. select count(distinct(equipment)) from routes;



Q2.

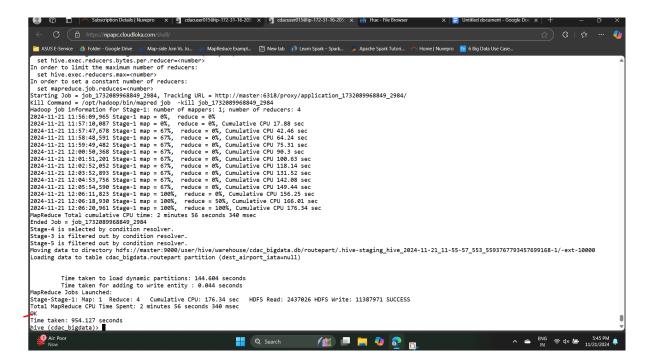
1.

create table routepart(airline_iata string,airline_id
int,src_airport_iata string,src_airport_id int,dest_airport_id
int,codeshare string,stops in
t,equipment string) partitioned by (dest_airport_iata string) row
format delimited fields terminated by ',' stored as textfile;

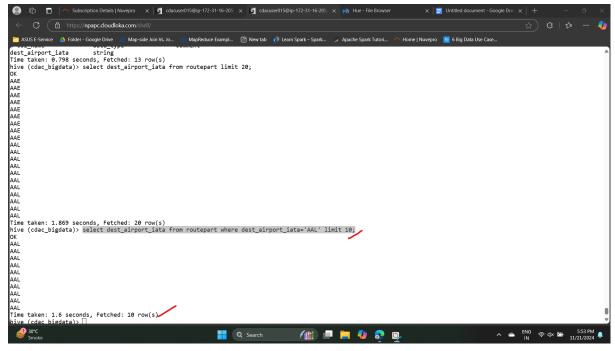


2.insert overwrite table routepart partition(dest_airport_iata)
select
airline_iata,airline_id,src_airport_iata,src_airport_id,dest_airpo
rt id,codes

hare, stops, equipment, dest airport iata from routes;



3.select dest_airport_iata from routepart where
dest_airport_iata='AAL' limit 10;



4. describe routepart;

Spark

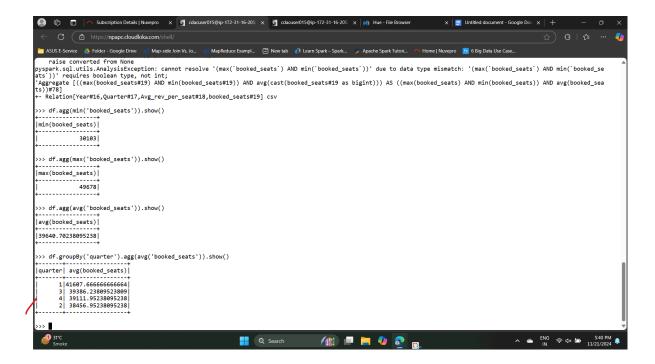
Q2.

1.df.agg(max('booked seats')).show()

```
State of the content of the content
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2. df.filter(col('avg rev per seat') > 290).count()

3.
df.groupBy('quarter').agg(avg('booked_seats')).show()



4. df.select(distinct 'year').count().show()

5.
df.groupBy('year','quarter').agg(sum(col('avg_rev_per_seat')*col('
booked seats')).alias('Total Rev')).show()

