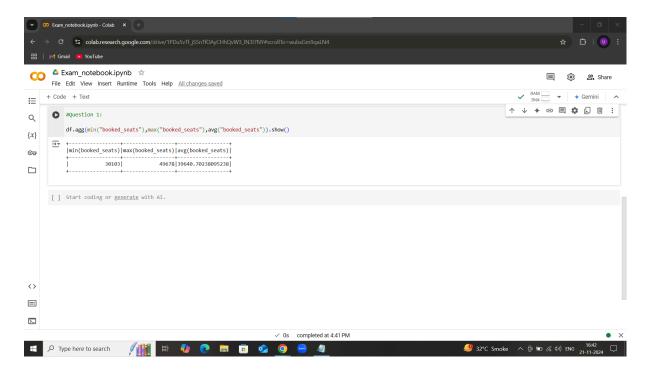
SPARK

USE RDD OR DATAFRAME:

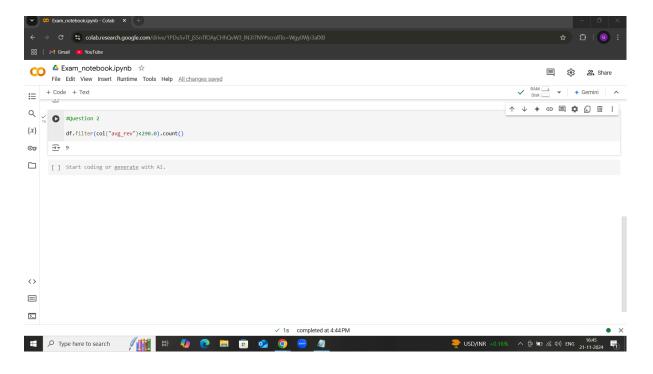
1:

df.agg(min("booked_seats"), max("booked_seats"), avg("booked_seats")).sho
w()

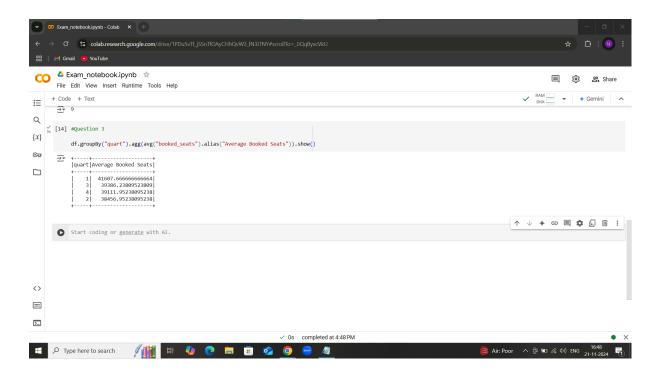


2:

```
df.filter(col("avg_rev")<290.0).count()
```

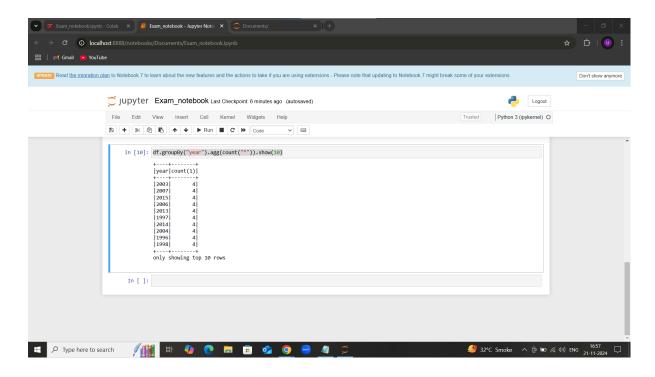


```
df.groupBy("quart").agg(avg("booked_seats").alias("Average Booked
Seats")).show()
```

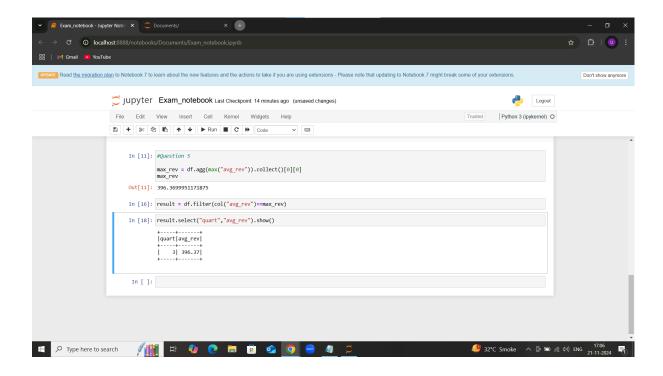


4:

df.groupBy("year").agg(count("*")).show(10)

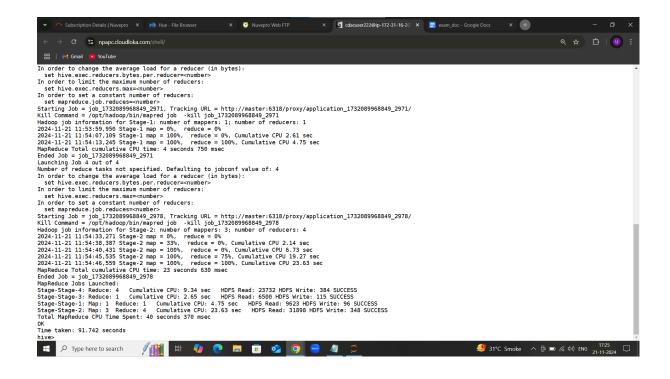


max_rev = df.agg(max("avg_rev")).collect()[0][0]
result = df.filter(col("avg_rev")==max_rev)
result.select("quart","avg_rev").show()



USE RDD ONLY

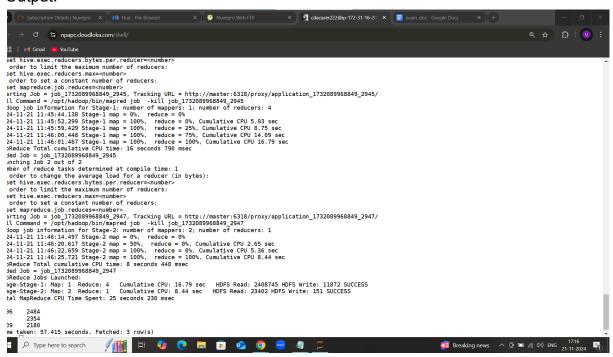
```
1:
Code:
#loading file
datardd = sc.textFile("user/cdacuser/training/airlines.csv")
#checking for header
datardd.take(5)
#eliminating the header
head = datardd.first()
eliminate = datardd.filter(lambda a: a!=head)
HIVE:
Question 1:
1:
Query:
select src_airport_id from routes where src_airport_id not in (select dest_airport_id
from routes) limit 5;
Output:
```



Query:

select airline_id, count(*) from routes group by airline_id order by count(*) desc limit 3;

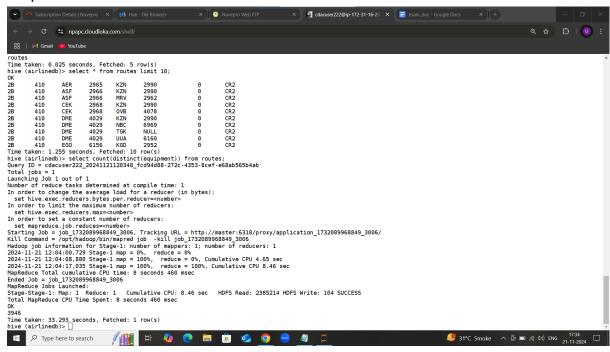
Output:



Query:

Select count(distinct(equipment)) from routes;

Output:



Question 2:

1.

Query:

create table routes_partitioned
(airline_iata string, airline_id int, src_airport_iata string,
src_airport_id int, dest_airport_iata string,
dest_airport_id int, codeshare string, stops int, equipment int)
partitioned by (dest_airport_iata) row format delimited
fields terminated by "," stored as textfile;