Q1.

1.

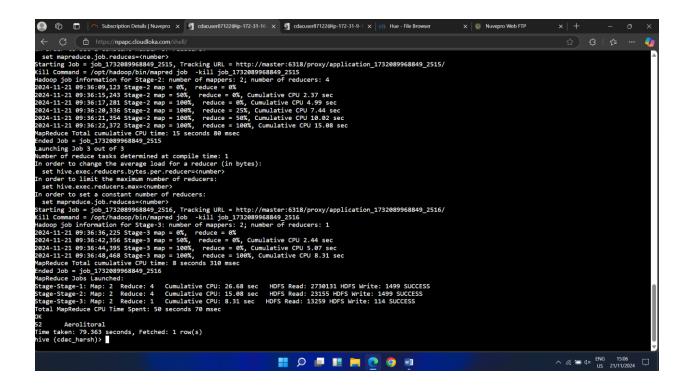
select src.name from airport src join routes r on src.iata =
r.source_airport_id join airport dest on
r.destination_airport_id=dest.iata wher
e src.iata=dest.iata limit 10;

```
| Subcomption Debila | Numpro x | Classoceti | Colored |
```

Q1.

3.

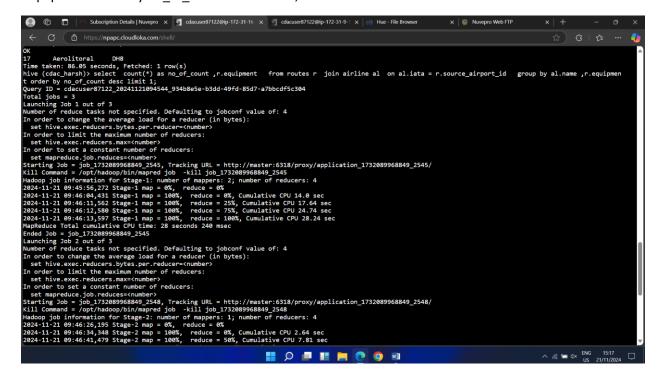
```
select count(*) as no_of_count , al.name from routes r join
airline al  on al.iata = r.source_airport_id group by al.name
order by no_of_
count desc limit 1;
```



Q1.

2. select count(*) as no_of_count ,r.equipment from routes r join airline al on al.iata = r.source airport id group by al.name ,r

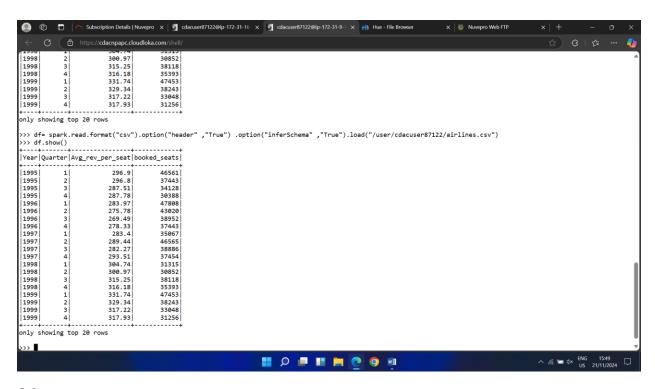
.equipment order by no of count desc limit 1;



Data Frame

```
df= spark.read.format("csv").option("header" ,"True") .option("inferSchema" ,"True").load("/user/cdacuser87122/airlines.csv")
```

>>> df.show()



Q.2

1.

Find_insight =df.agg(min("avg_rev_per_seat"), max("avg_rev_per_seat")avg("avg_rev_per_seat"))
Find_insight

2.df.groupBy("avg_rev_per_seat">290).agg(count("avg_rev_per_seat")3.

df.groupBy("Quarter")agg(sum("booked_seat").show()

4.
df.groupBy("Year").show()

5.

df.groupBy("Year").agg(sum("avg_rev_per_seat").limit(10)

RDD

1.