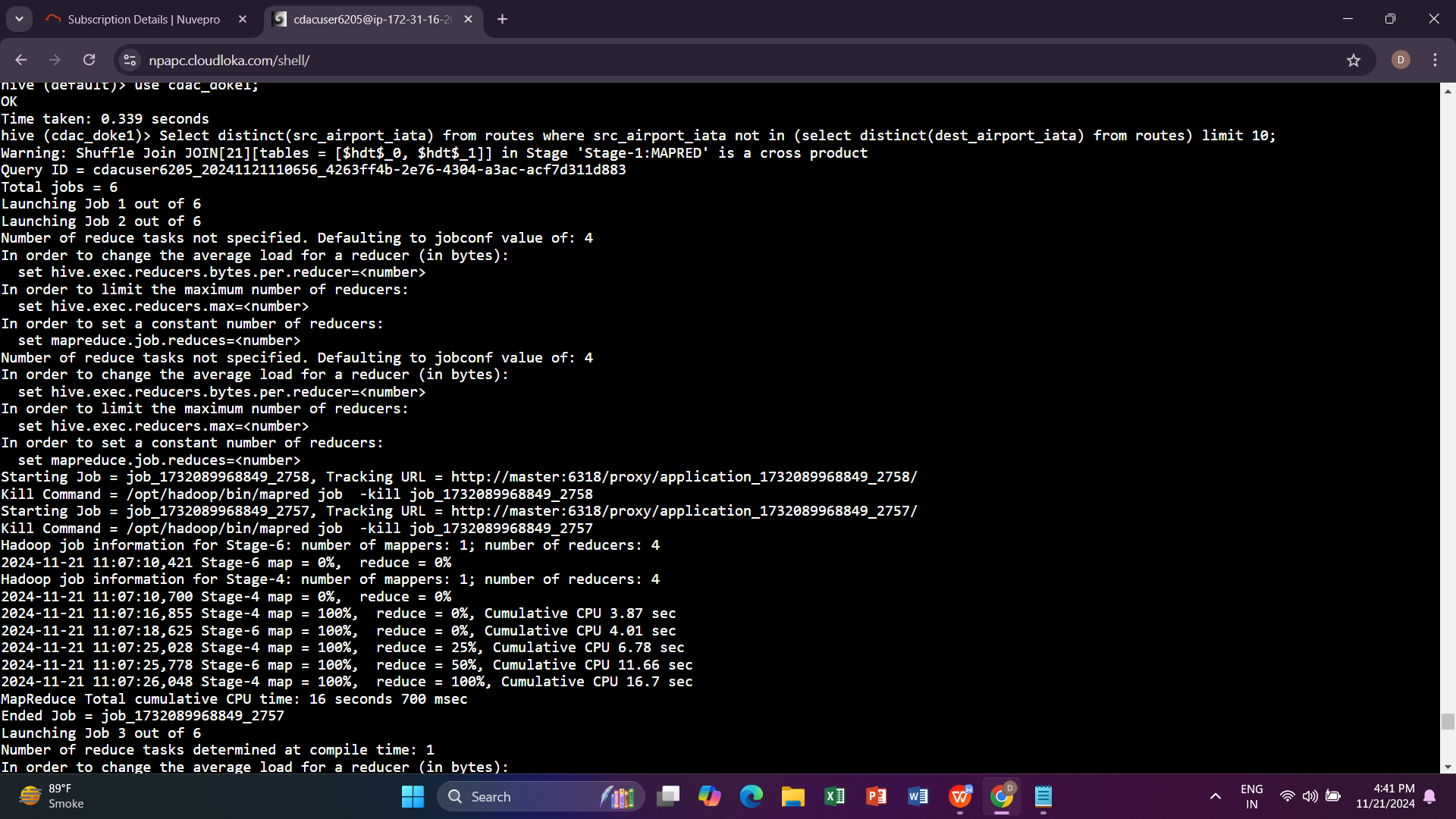
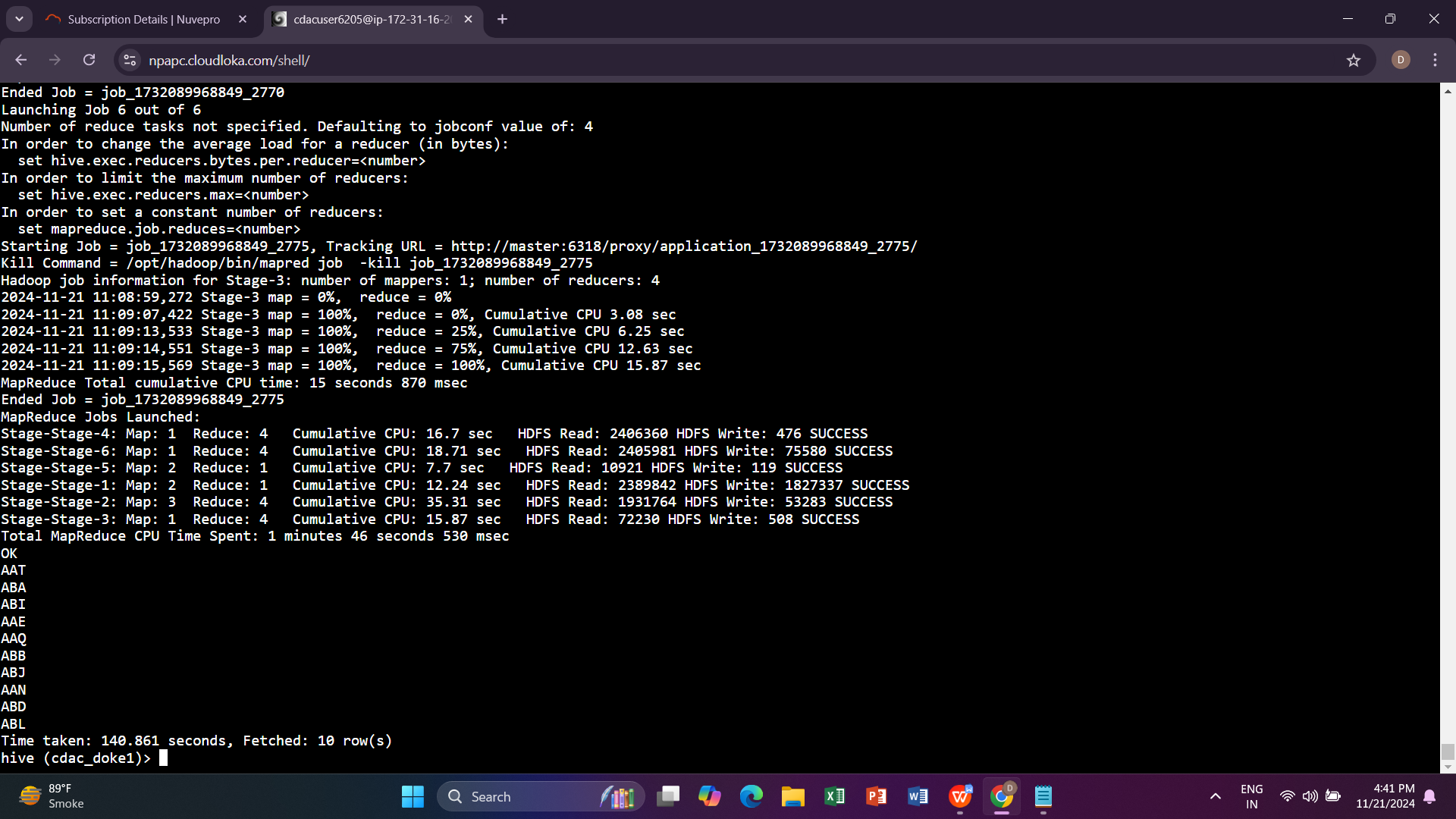
Hive

Question 1:

Q1)

Select distinct(src\_airport\_iata) from routes where src\_airport\_iata not in (select distinct(dest\_airport\_iata) from routes)



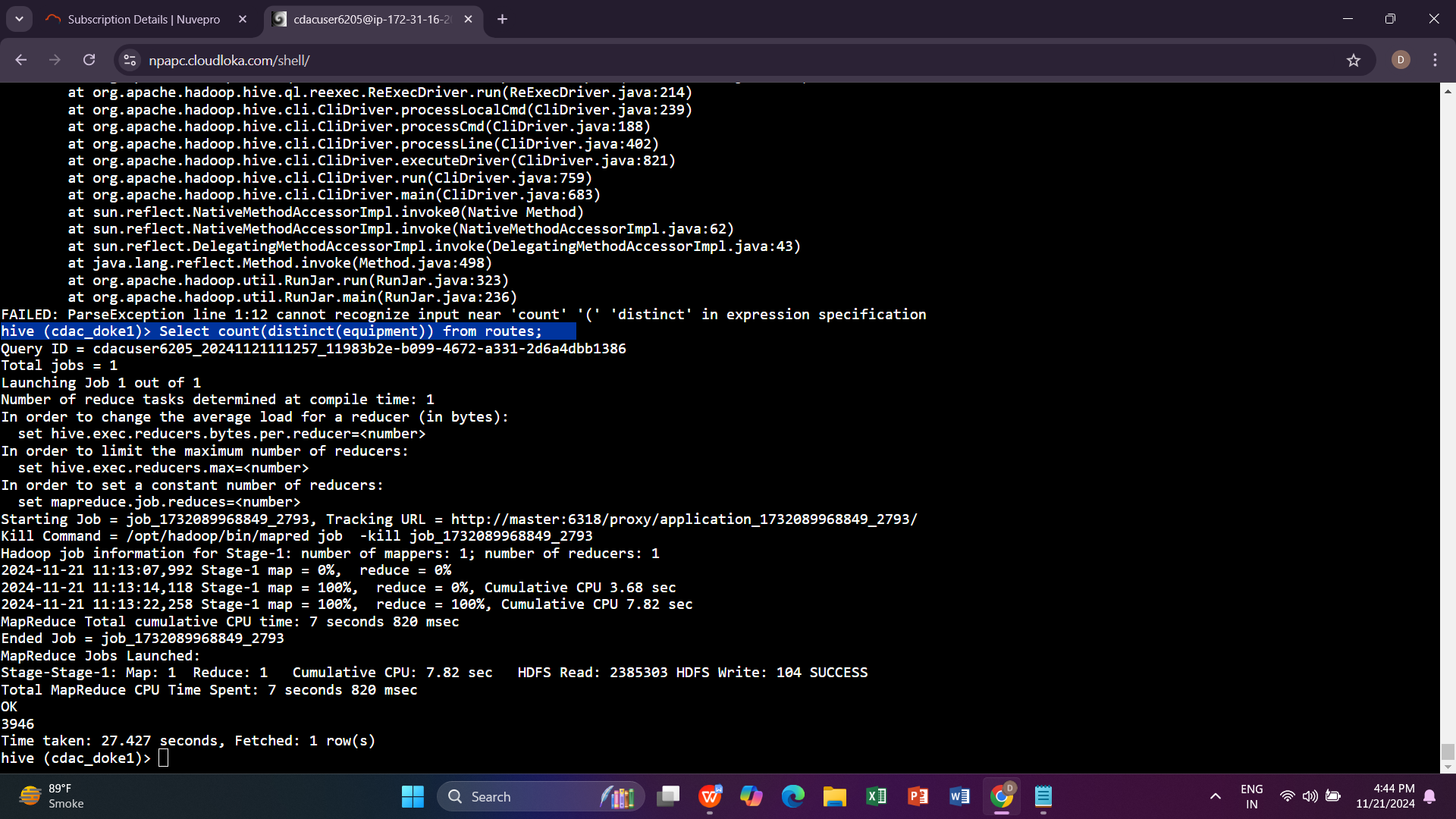


Q2)

Select count(distinct(airline\_id) from airlines a join routes r on a.airline\_id=r.airline\_id;

Q3)

Select count(distinct(equipment)) from routes



Question2:

Q1)

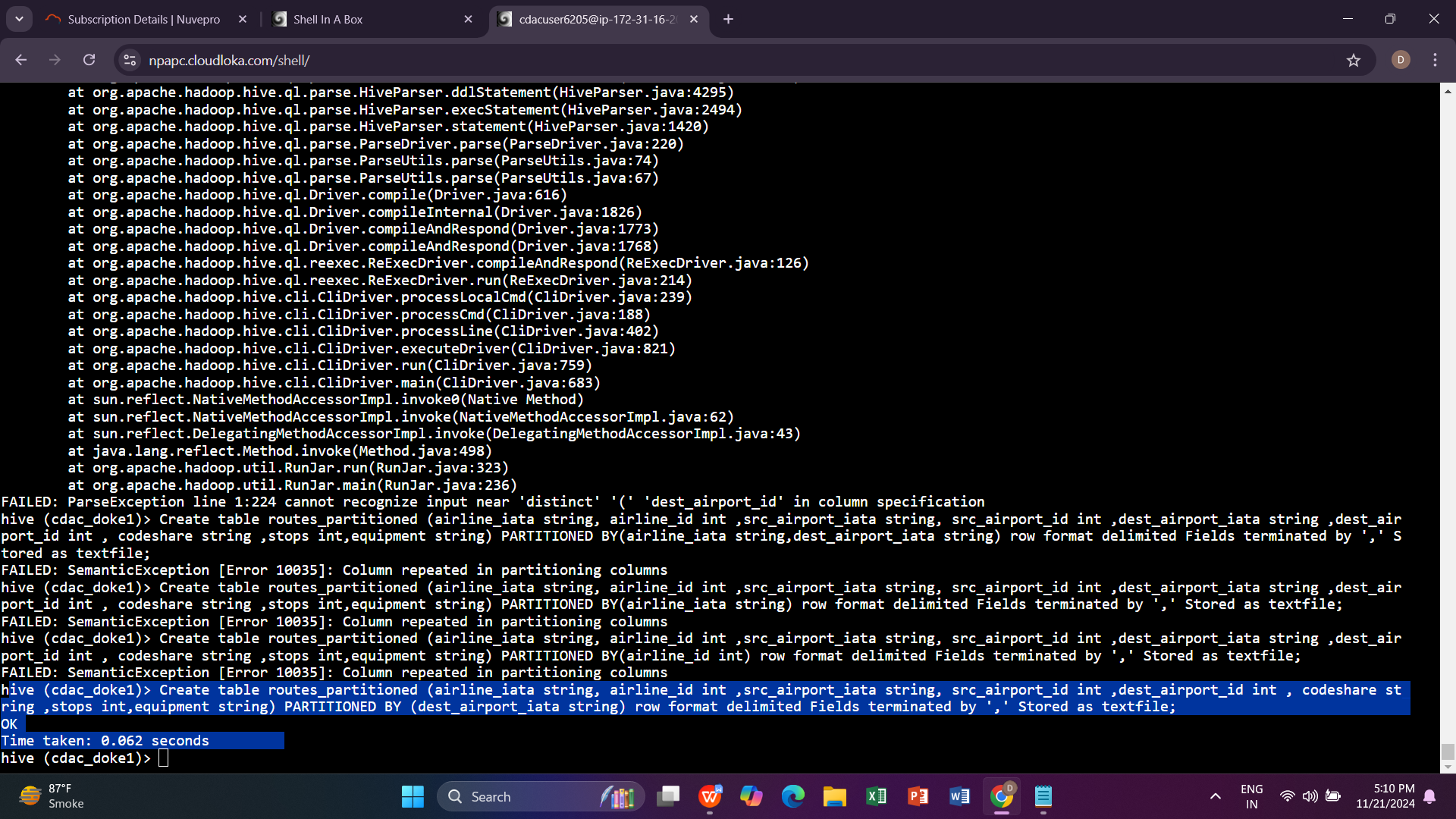
Create table routes\_partitioned (airline\_iata string, airline\_id int ,src\_airport\_iata string, src\_airport\_id int ,dest\_airport\_iata string ,dest\_airport\_id int , codeshare string ,stops int,equipment string)

PARTITION (dest\_airport\_iata string)

row format delimited

Fields terminated by ‘,’

Stored as textFile;



2)

insert overwrite table routes\_partitioned partition(dest\_airport\_iata) select r.airline\_iata ,r.airline\_id r.,src\_airport\_iata, r.src\_airport\_id r.,d

esinsert overwrite table routes\_partitioned partition(dest\_airport\_iata) select r.airline\_iata ,r.airline\_id r.,src\_airport\_iata, r.src\_airport\_id r.,d

est\_airport\_id ,r.codeshare ,r.stops,r.equipment ,r.dest\_airport\_iata from routes r where upper(r.dest\_airport\_iata)="ORD";

Q3)

Select \* from routes\_partitioned where dest\_airport\_iata=”ORD”

Q4)

Pyspqrk

Q1)

1.

>>> df.filter(df.booked\_seats>20000 & df.booked\_seats < 50000 ).show()

Server error

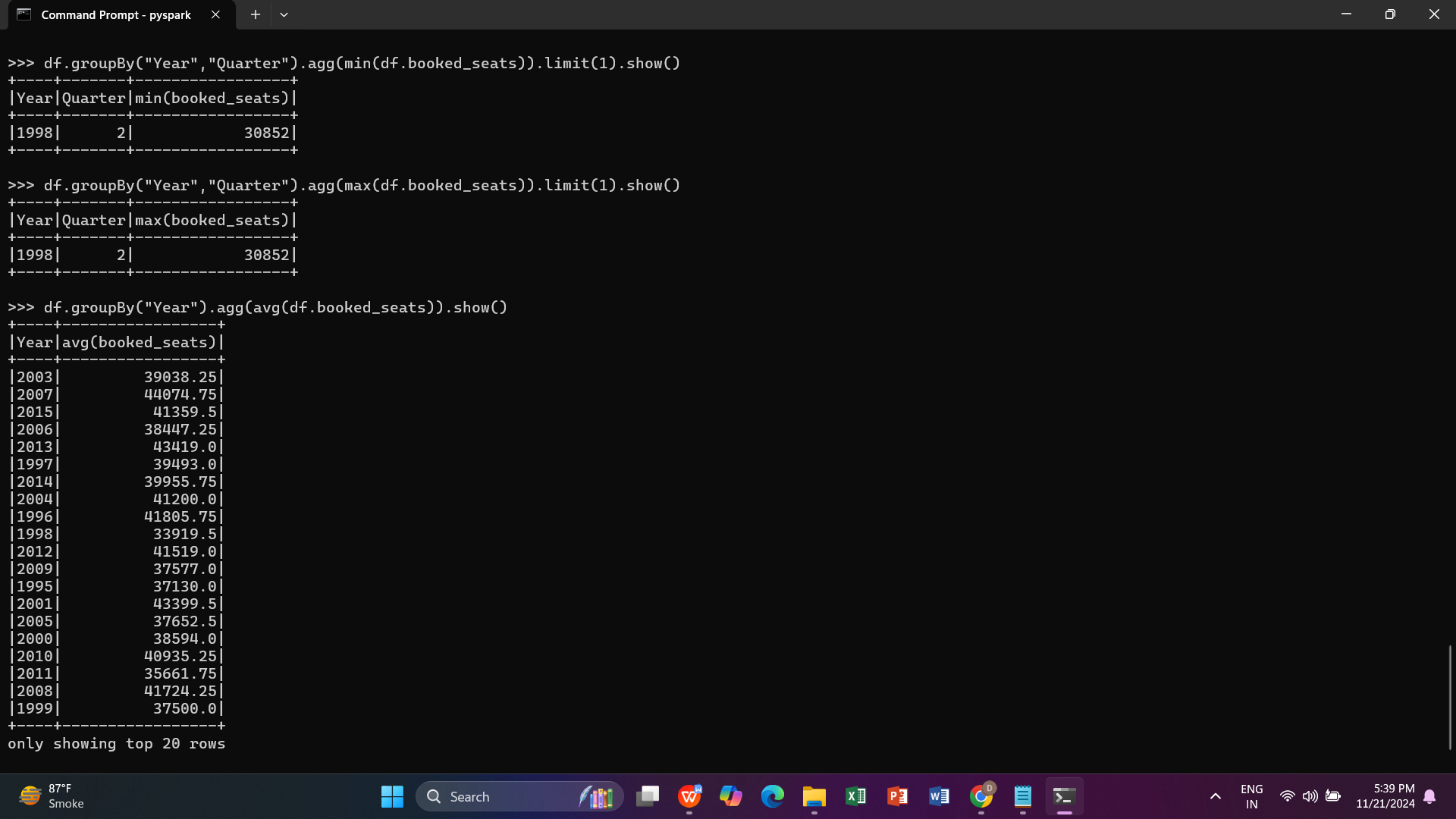
2.

Q2) DF

1. df.groupBy("Year","Quarter").agg(min(df.booked\_seats)).limit(1).show()

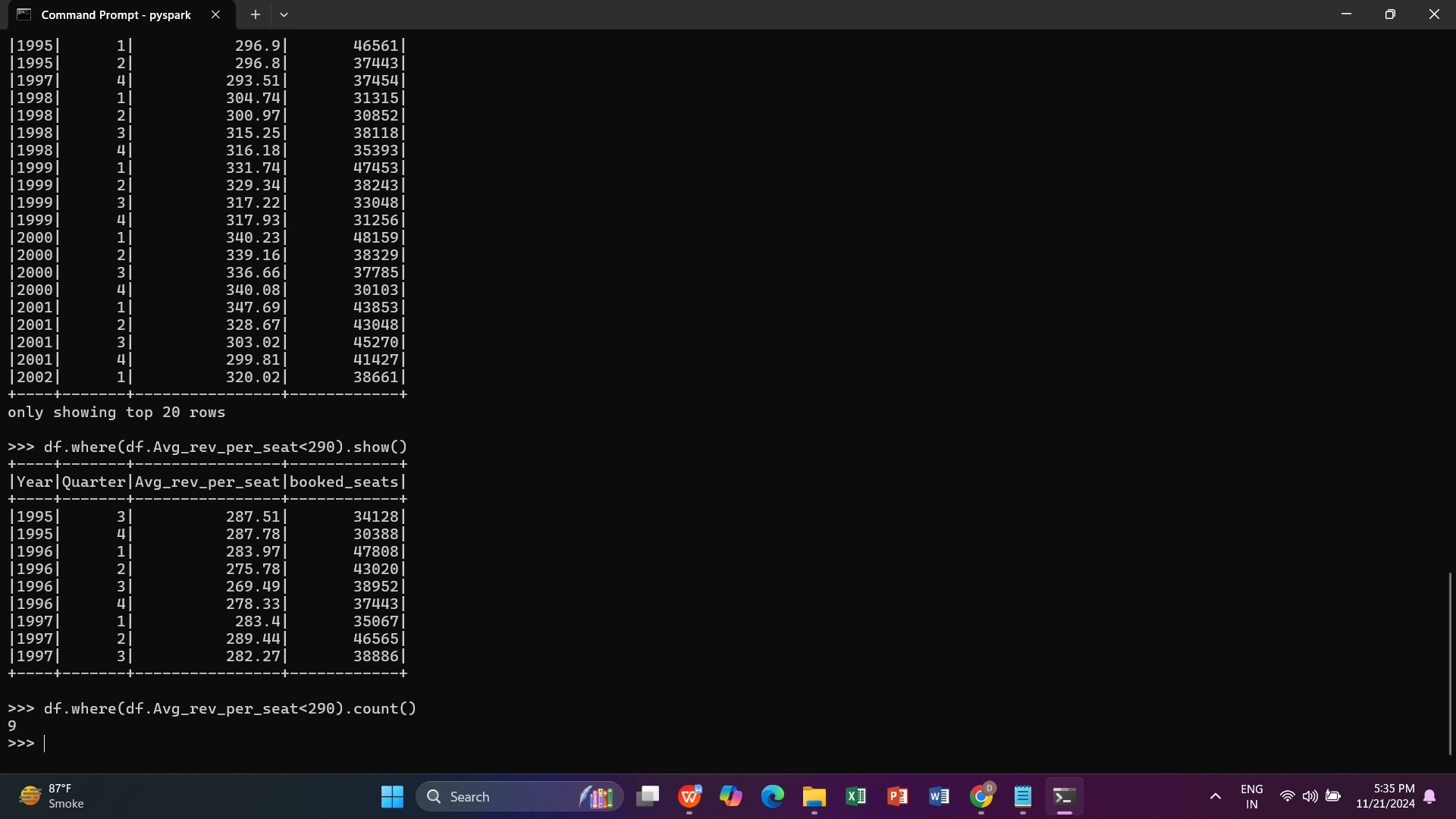
>>> df.groupBy("Year","Quarter").agg(max(df.booked\_seats)).limit(1).show()

>>> df.groupBy("Year","Quarter").agg(avg(df.booked\_seats)).show()



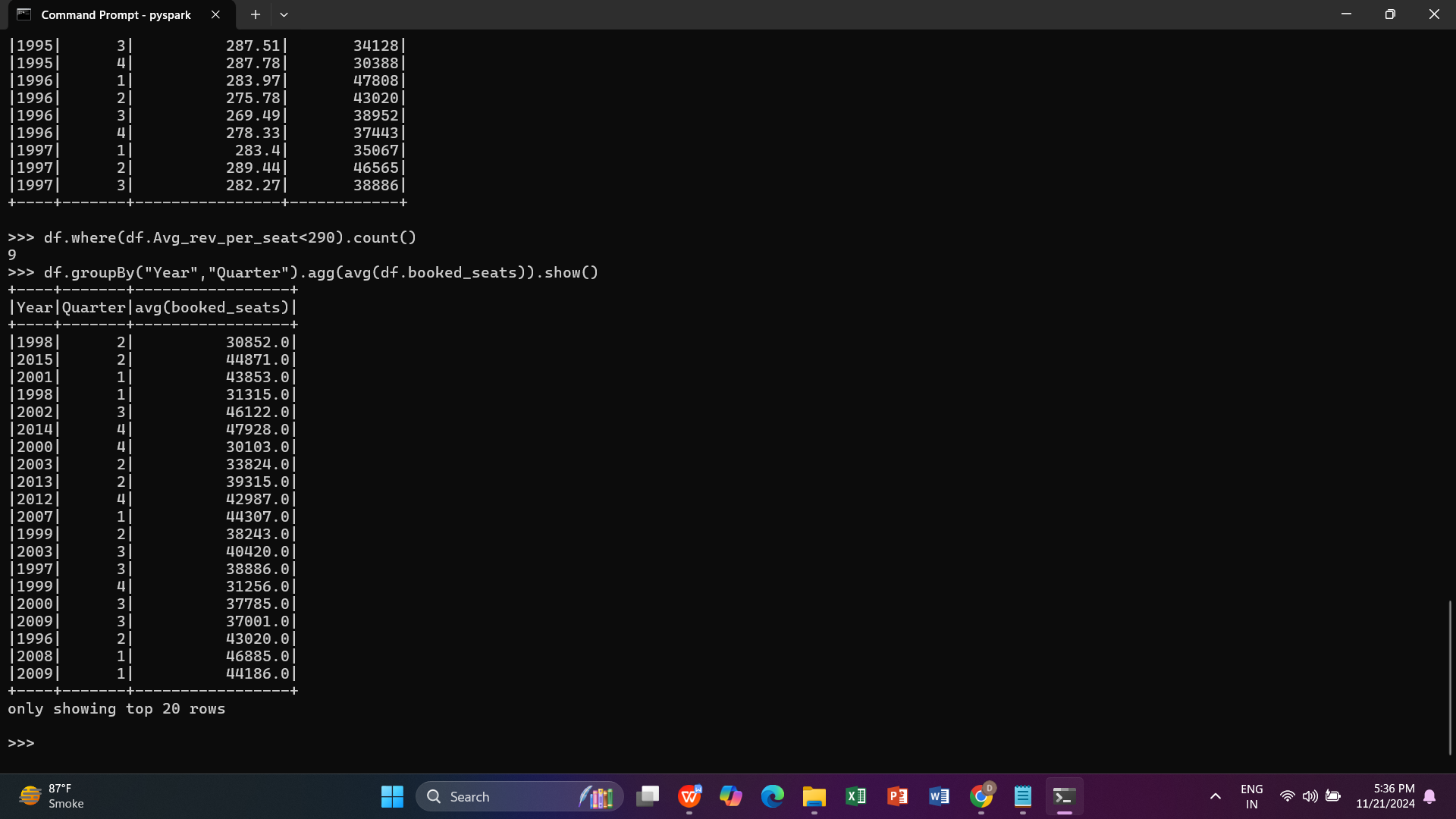
Q2)>>> df.where(df.Avg\_rev\_per\_seat<290).count()

>>> df.where(df.Avg\_rev\_per\_seat<290).show()



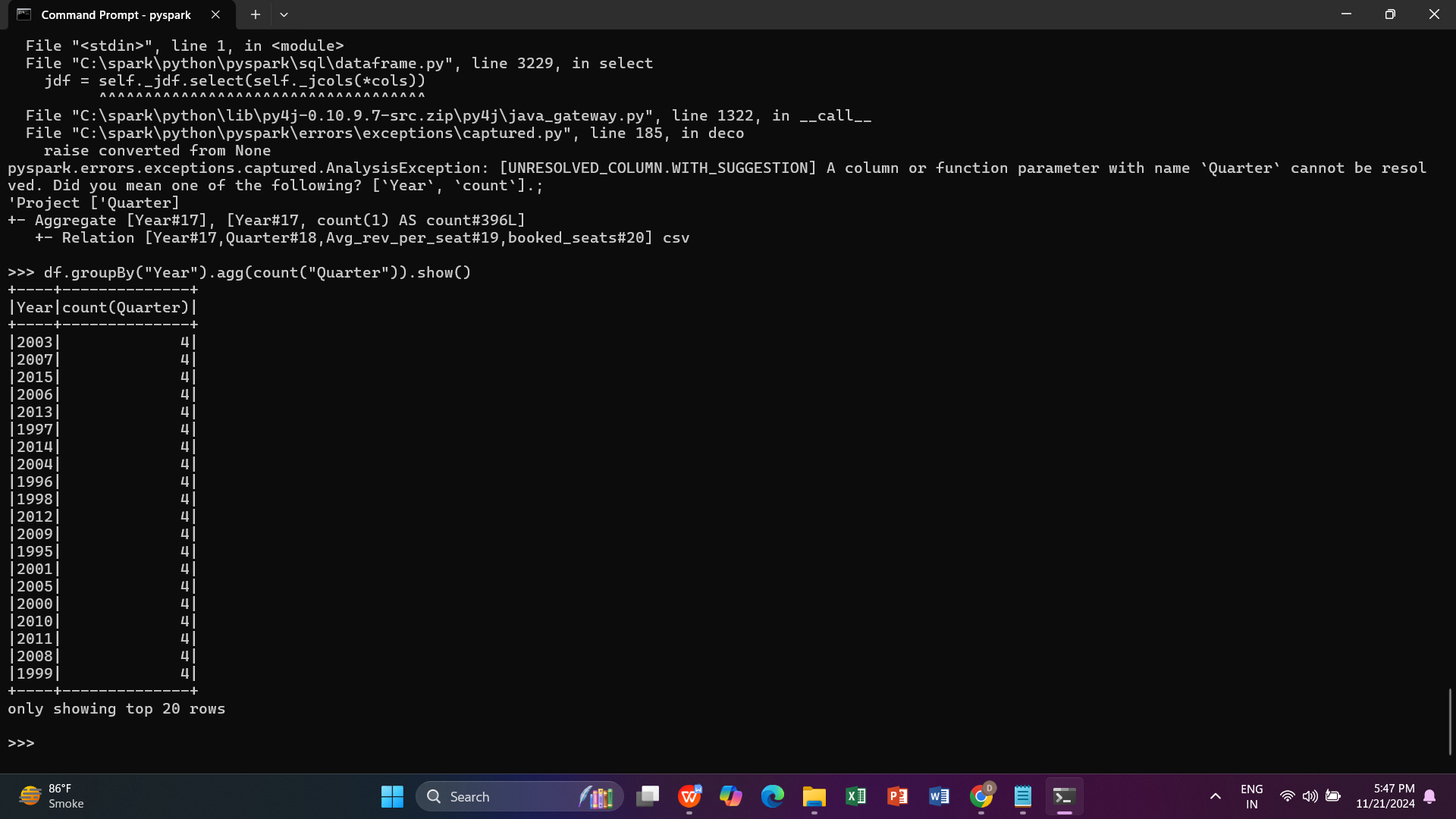
Q 3)

>>> df.groupBy("Year","Quarter").agg(avg(df.booked\_seats)).show()



4)

>>> df.groupBy("Year").agg(count("Quarter")).show()



Q5)

>>> df.groupBy("Year""Quarter").agg(max(booked\_seats \* Avg\_rev\_per\_seat)).alias("highest\_revenue").show()