BIG DATA EXAM

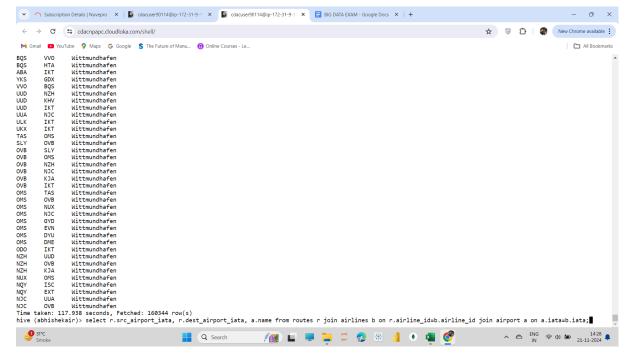
Name: Abhishek Bhadarge

Roll No: 03

#HIVE

Question 1:

1.select r.src_airport_iata, r.dest_airport_iata, a.name from
routes r join airlines b on r.airline_id=b.airline_id join airport
a on a.iata=b.iata;

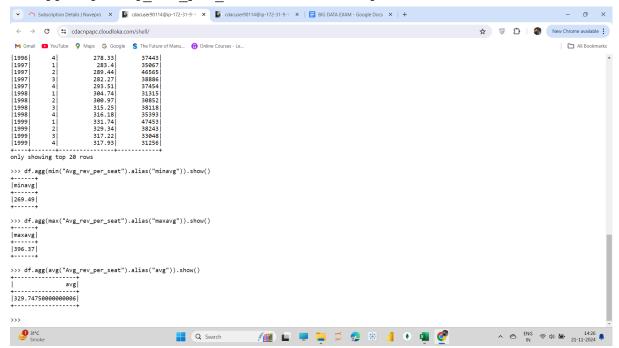


2.select name from airlines b join routes r on b.airline_id=r.airline_id where equipment='CR2';

#SPARK

Question 2:

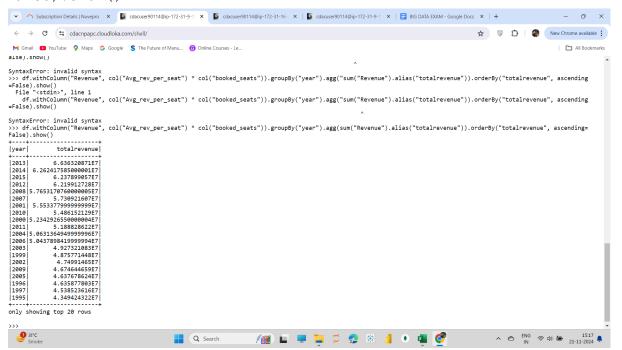
1.df.agg(min("Avg_rev_per_seat").alias("minavg")).show()
df.agg(max("Avg_rev_per_seat").alias("maxavg")).show()
df.agg(avg("Avg_rev_per_seat").alias("avg")).show()



3.df.groupBy("Quarter").agg(sum("booked_seats").alias("totalbooked seats")).show()

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>>> df.agg(max("Avg_rev_per_seat").alias("maxavg")).show()
 |maxavg|
396.37
>>> df.agg(avg("Avg_rev_per_seat").alias("avg")).show()
 avg|
>>> df.groupBy("Quarters").agg(sum("booked_seats").alias("totalbookedseats")).show()
Traceback (most recent call last):
    File "cstdin", line 1, in (module)
    File "cstdin", line 1, in (module)
    File "opt/spark-3.1.2/python/pyspark/sql/group.py", line 118, in agg
    jdf = self.jgd.agg(exprs[6].jc,
    File "opt/spark-3.1.2/python/lib/py4j-0.10.9-src.zip/py4j/java_gateway.py", line 1304, in __call_
    File "opt/spark-3.1.2/python/pyspark/sql/utils.py", line 117, in deco
    raise converted from Mone
    pyspark.sql.utils.AnalysisException: cannot resolve ''Quarters' given input columns: [Avg_rev_per_seat, Quarter, Year, booked_seats#19 as bigint)) AS totalbookedseats#97L]
+- Relation(Year#16, Quarter#17, Avg_rev_per_seat#18, booked_seats#19] csv
 >>> df.groupBy("Quarter").agg(sum("booked_seats").alias("totalbookedseats")).show()
 |Quarter|totalbookedseats|
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5.df.withColumn("Revenue", col("Avg_rev_per_seat") *
col("booked_seats")).groupBy("year").agg(sum("Revenue").alias("tot
alrevenue")).orderBy("totalrevenue", ascending=
False).show()



#Question 2(HIVE).
3. Select * from partitioned_routes where
trim(upper(src airport)="LAX" limit 10);

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    Insert overwrite table partition (src_airport) select r.airline, r.src_airport, r.dest_airport where r.drc_airport="JFK";
    Create table partition
```

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#(SPARK)Question 2:
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4.
rdd.map(lambda a:a[0].distinct)
```