HIVE

Q1.

1.select distinct a.name from routes r join airport a on r.src_airport_id=a.airport_id join airport a1 on r.dest_airport_id=a1.airport_id limit 10;

```
Total MapReduce CPU Time Spent: 1 minutes 22 seconds 300 msec OK
Agri Airport
Aizawl
Akiak Airport
Akita
Abu Dhabi Intl
Achmad Yani
Adnan Menderes
Aasiaat
Aberdeen Regional Airport
Agatti
Time taken: 85.696 seconds, Fetched: 10 row(s)
```

3. select a.name, count(*) from routes r join airlines a on r.airline_id=a.airline_id group by a.name order by count(*) desc limit 1;

2.

Select equipment, count(*) from routes where equipment="U" group by equipment order by count(*) desc limit 1;

1. create table source_airport(airline_iata string,airline_id int,src_airport_id int,dest_airport_iata string,dest_airport_id int,codeshare string,

stops int, equipment string) partitioned by (src_airport_iata string) row format delimited fields terminated by "," stored as textfile;

insert overwrite table source_airport partition(src_airport_iata) select r.airline_iata, r.airline_id, r.dest_airport_iata,

r.dest_airport_id, r.codeshare, r.stops, r.equipment, r.src_airport_iata from routes r distribute by src_airport_iata;

server down that why not taken screenshot.

2. insert overwrite table routes_partition(src_airport_iata) select r.airline_iata ,r.airline_id ,r.src_airport_id,r.dest_airport_iata ,r.dest_airport_i

d ,r.codeshare ,r.stops,r.equipment,r.src_airport_iata from routes r where src_airport_iata='JFK' distribute by src_airport_iata;

server down

3.select * from source_airport where src_airport_iata="LAX";

4.select * from routes_partition;

Spark

```
Q.1

1. from pyspark import SparkConf,SparkContext airlinerdd=sc.textFile("/user/cdacuser882112/airlines.csv") header=airlinerdd.first()
el=airlinerdd.filter(lambda a: a!=header)
split=el.map(lambda a:a.split(","))
combine=split.map(lambda a:(a[0],int(a[3])))
total=combine.filter(lambda a:(a[3] >40000))
total.count()

2.
combine1=split.map(lambda a:(a,1))
    year=combine1.map(lambda a:(a,1))
    arrange=year.reduceByKey(lambda a,b:a+b)
    for a in arrange.collect():
        print(a[0])
```

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distictyear=print(a[0])
Q.2
  Server down that why written programm.
5. ywiserev=combine.map(lambda a:(a[0],(float(a[2])*int(a[3]))))
  rev=ywiserev.reduceByKey(lambda a,b:a+b)
   rev.take(5)
4. for line in rev.collect():
      Print(line[0])
3. total=split.map(lambda a: a[2]).sum()
   1. combine2=split.map(lambda a:(a[0],int(a[2])))
       avg=combine2..sortBy(lambda a:-a[1]).mean()
       max= combine2.max(lambda a:a[1])
       min=combine2.min(lambda a:a[1])
```

2.

```
Fraceback (most recent call last):
File "scidin", line 1, in cmodule)
File "(ppt/spark-31.12/ppt/mor/pspark/rdd.py", line 1533, in take
totalParts = self.egtNumPartitions()
File "(ppt/spark-31.12/ppt/mor/pspark/rdd.py", line 455, in getNumPartitions
File "(ppt/spark-31.12/ppt/mor/pspark/rdd.py", line 455, in getNumPartitions()
File "(ppt/spark-31.12/ppt/mor/lb/ppark/sal_vet).
File "(ppt/spark-31.12/ppt/mor/lb/ppark-sal_vet).
File "(ppt/spark-sal_vet).
```