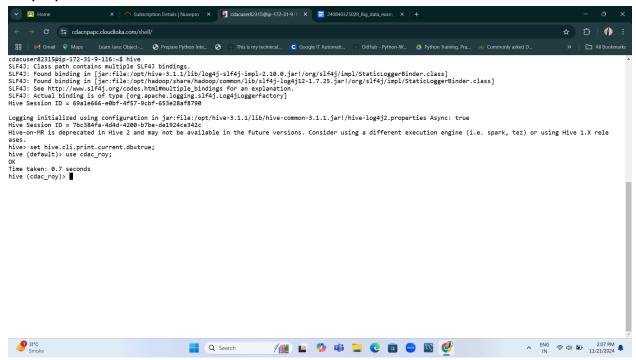
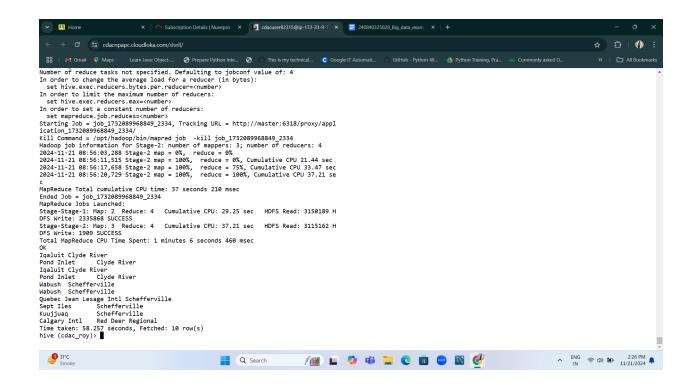
# Big\_data\_exam: 240840325028

#### Q1.) 1.)



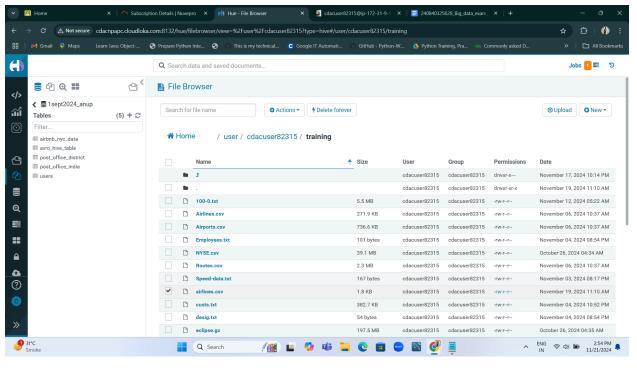
select a1.name,a2.name from airport a1 join routes r on
a1.airport\_id = r.src\_airport\_id join airport a2 on
a2.airport\_id = r.dest\_airport\_id limit 10;

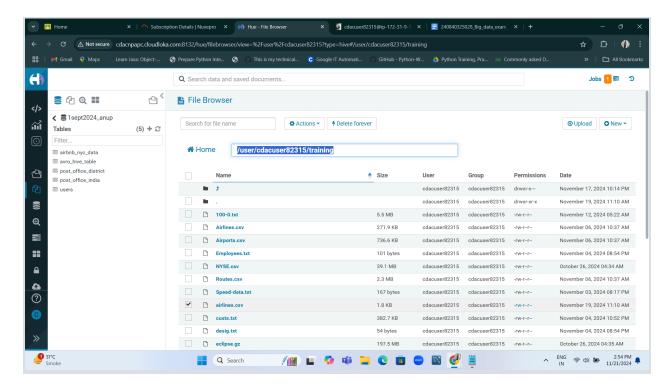


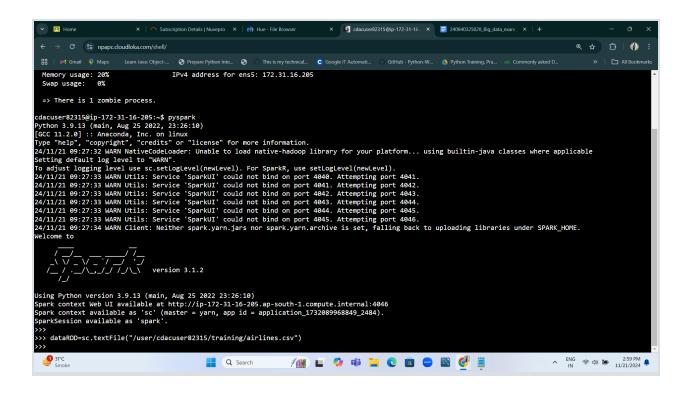
#### **SPARK—-----**

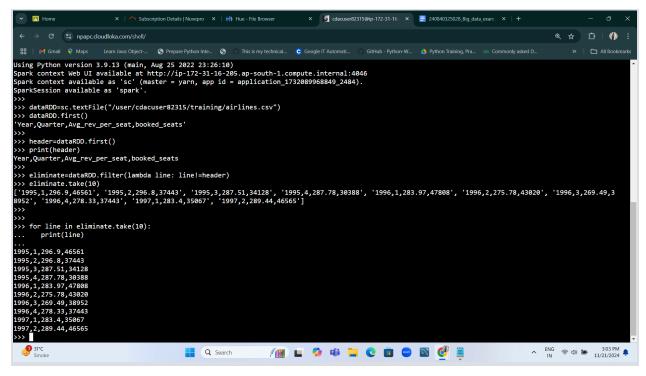
### Q1.)

1.)

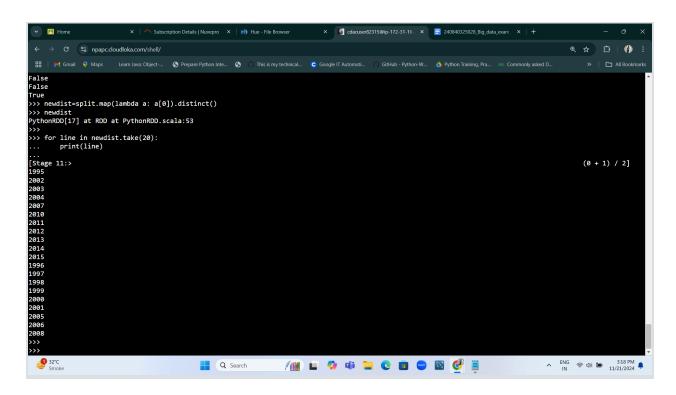








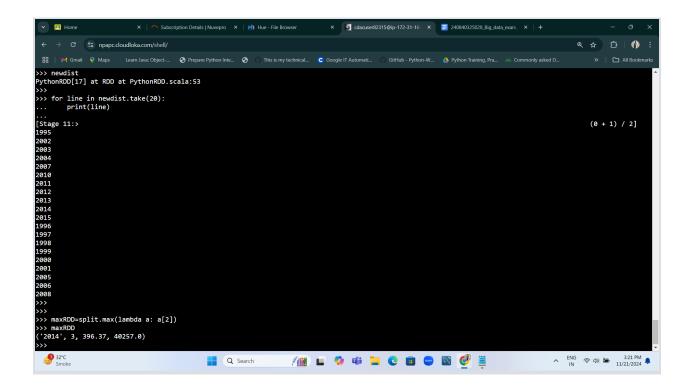
# 2.)



# Question 2.)

# 1.)

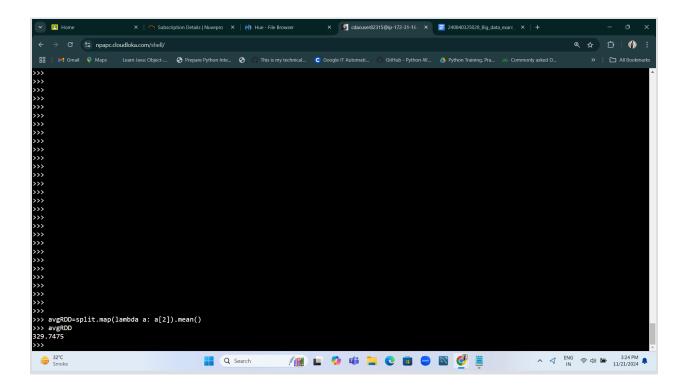
```
maxRDD=split.max(lambda a: a[2])
maxRDD
```



minRDD=split.min(lambda a: a[2])
minRDD

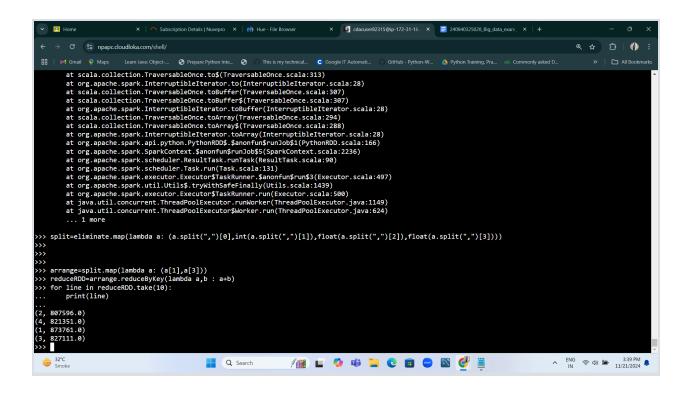
```
| Note |
```

# avgRDD=split.map(lambda a: a[2]).mean() avgRDD 329.7475



# 3.)

```
arrange=split.map(lambda a: (a[1],a[3]))
>>> reduceRDD=arrange.reduceByKey(lambda a,b : a+b)
>>> for line in reduceRDD.take(10):
        print(line)
```

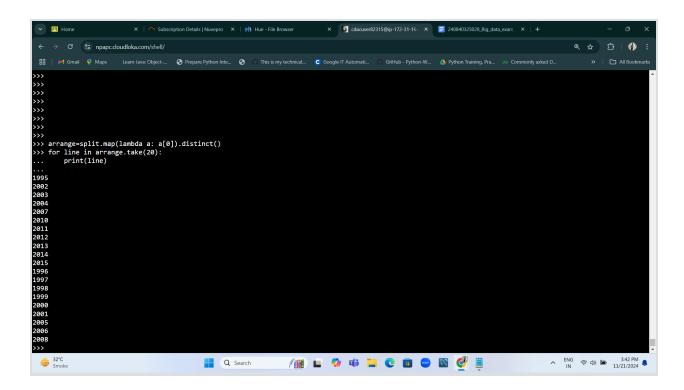


# 4.)

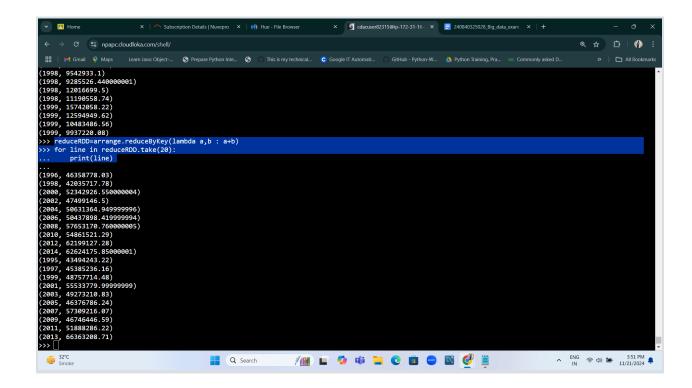
arrange=split.map(lambda a: a[0]).distinct()

>>> for line in arrange.take(20):

... print(line)



- 5.) reduceRDD=arrange.reduceByKey(lambda a,b : a+b)
- >>> for line in reduceRDD.take(20):
- ... print(line)



- 2.) groupy('year','quarter').agg(count(col(avg\_per\_seat)>\$290)
- →Screen stuck written the query

