# **Spark**

#### Q1 1)

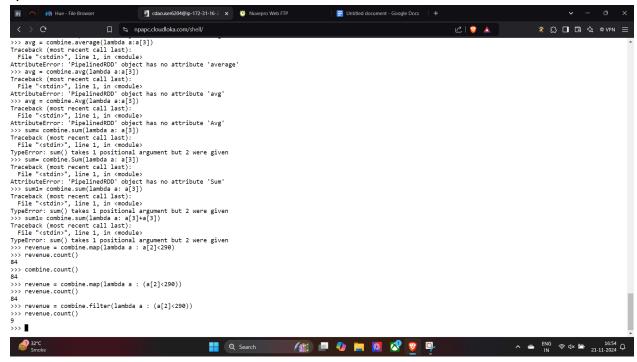
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                                                                                                                                                                                                                                                                              Nuvepro Web FTP
[GCC 11.2.8] :: Anaconda, Inc. on linux
Type "help", "copyright", "credits" or "license" for more information.
24/11/21 le:52:46 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Setting default log level to "WARN":
To adjust logging level use sc. setLoglevel(newLevel). For SparkR, use setLoglevel(newLevel).
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4840. Attempting port 4841.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4841. Attempting port 4842.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4841. Attempting port 4842.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4844. Attempting port 4844.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4844. Attempting port 4845.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4845. Attempting port 4845.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4845. Attempting port 4846.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4847. Attempting port 4848.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4847. Attempting port 4848.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4847.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4848. Attempting port 4848.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4849. Attempting port 4848.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4849. Attempting port 4848.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4849. Attempting port 4848.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4849. Attempting port 4859.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4849. Attempting port 4859.
24/11/21 le:52:47 WARN Wils: Service 'SparkUI' could not bind on port 4849. Attempting port 4859.
24/11/21 le:52:47
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         >>> count.take(10)
[True, True, True, True, True, True, True, True, True]
>>> count1= count.map(lambda a:(a,1))
    >>> count1= count.map(lambda a:(a,1))
>>> count1-take(10)
[(True, 1), (True, 1)]
>>> count2 = count1.reduceByKey(lambda a,b : a+b)
>>> count2.take(1)
[(True, 84)]
            32°C
Smoke
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                                                                                                                                                               G cdacuser6204@ip-172-31-16-2 x
                                                                                                                                                                                                                                                                             Nuvepro Web FTP
 AttributeFror: 'PipelinedRDD' object has no attribute 'average'
>>> avg = combine.avg(lambda a:a[3])
Traceback (most recent call last):
   File "cstdin", line 1, in <module>
AttributeFror: 'PipelinedRDD' object has no attribute 'avg'
>>> avg = combine.avg(lambda a:a[3])
Traceback (most recent call last):
   File "cstdin", line 1, in <module>
AttributeFror: 'PipelinedRDD' object has no attribute 'avg'
>>> sum = combine.sum(lambda a:a[3])
Traceback (most recent call last):
   File "cstdin", line 1, in <module>
Traceback (most recent call last):
   File "cstdin", line 1, in <module>
TypeFror: sum() takes 1 positional argument but 2 were given
>>> sum= combine.Sum(lambda a: a[3])
Traceback (most recent call last):
   File "cstdin", line 1, in <module>
TypeError: Sum() takes 1 positional argument but 2 were given
>>> suml= combine.sum(lambda a: a[3])
Traceback (most recent call last):
   File "cstdin", line 1, in <module>
TypeFror: sum() takes 1 positional argument but 2 were given
>>> suml= combine.sum(lambda a: a[3])
Traceback (most recent call last):
   File "cstdin", line 1, in <module>
TypeFror: sum() takes 1 positional argument but 2 were given
>>> suml= combine.sum(lambda a: a[3])
Traceback (most recent call last):
   File "cstdin", line 1, in <module>
TypeFror: sum() takes 1 positional argument but 2 were given
>>> revenue = combine.map(lambda a: a[2](299)
>>> revenue = combine.map(lambda a: a[2](299)
>>> revenue.count()
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     >>> revenue.count()
    54
5>>> revenue = combine.map(lambda a : (a[2]<290))
5>> revenue.count()
84
     >>> revenue = combine.filter(lambda a : (a[2]<290))
     >>> revenue.count()
     >>> count= combine.filter(lambda a : a[3]<50000 and a[3]>20000)
      >>> count.count()
      >>> [
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| Concount-Contine_map(lambda a : (a[0] map(lambda a : (a[0] map(lambda
```

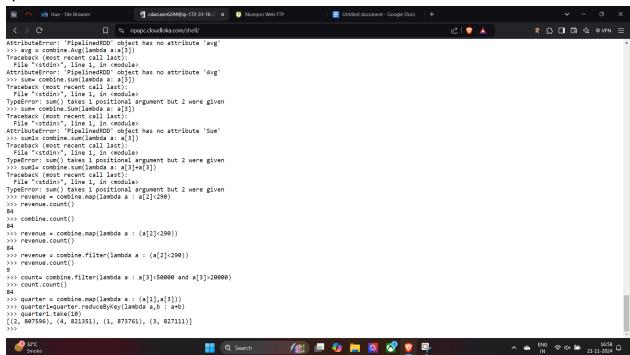
#### Q2

1)

```
| Mary Company | Mary
```



#### 3)



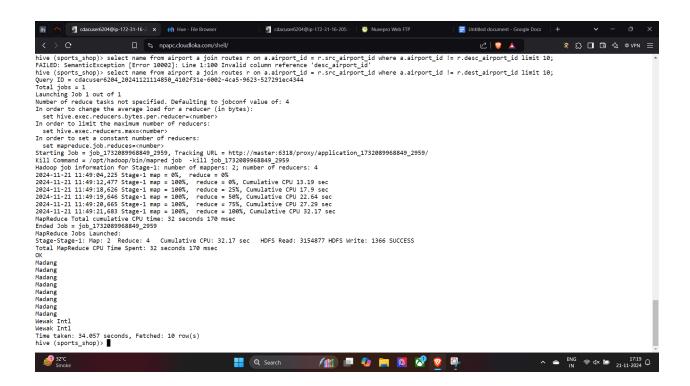
4)

5)

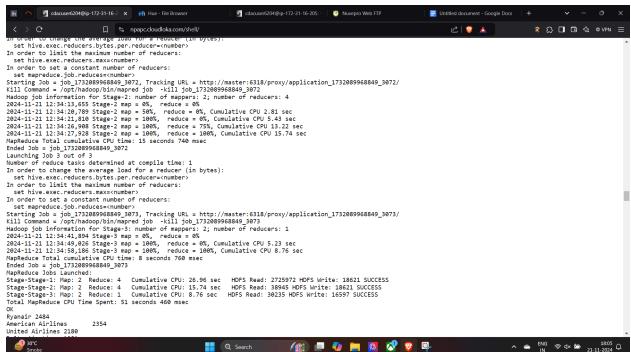
## **Hive**

### Q1) 1)

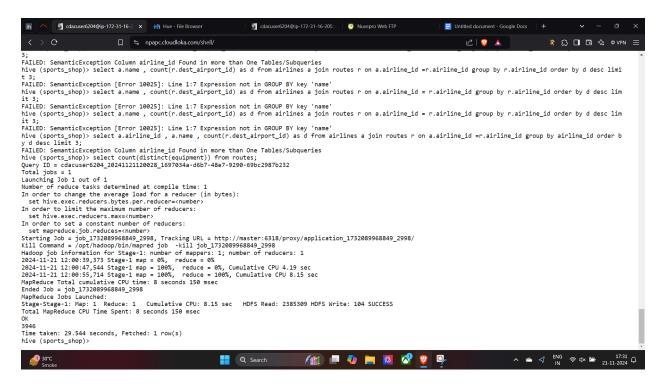
```
hive (sports_shop)> select name from airport a join routes r on
a.airport_id = r.src_airport_id where a.airport_id !=
r.dest_airport_id limit 10;
```



2) hive (sports\_shop)> select a.name , count(r.airline\_id) as s from airlines a join routes r on a.airline\_id=r.airline\_id group by a.name order by s desc limit 3;



3) hive (sports\_shop)> select count(distinct(equipment)) from routes;



Q2)

hive (sports\_shop)> create table routes\_partioned(airline\_iata
string , airline\_id int , src\_airport\_iata string , src\_airport\_id int
, dest\_airport\_iata string , codes
 hare string , stops int , equipment string) partitioned by (
 dest\_airport\_id int) row format delimited fields terminated by
 ',' stored as textfile;
 OK

- 1)Another create table routes\_partitioned1 ( dest\_airport\_iata
  string ) partitioned by (dest\_airport\_id int) row format delimited
  fields terminated by ',' stored as textfile
- 2) hive (sports\_shop)> insert into routes\_partitioned1
  partition(dest\_airport\_id) select dest\_airport\_iata , dest\_airport\_id
  from routes where dest\_airport\_iata ='ORD';

