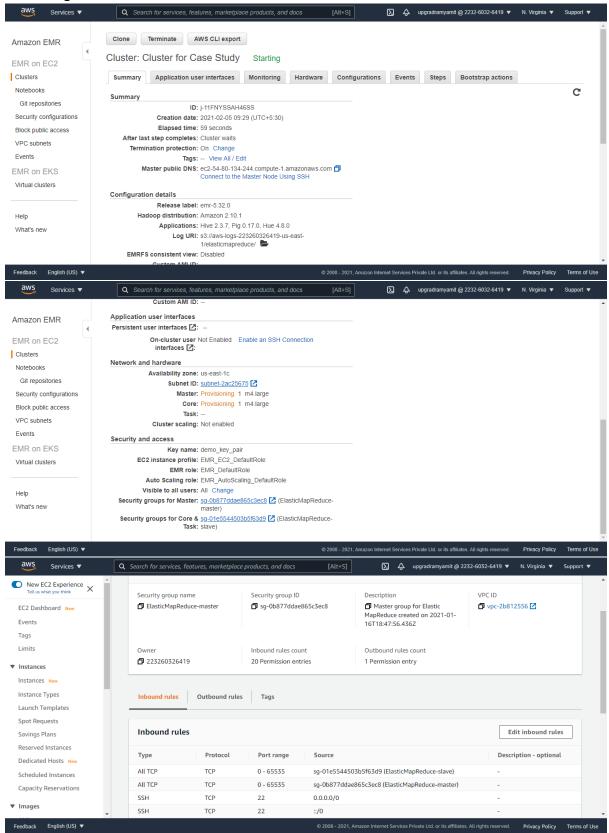
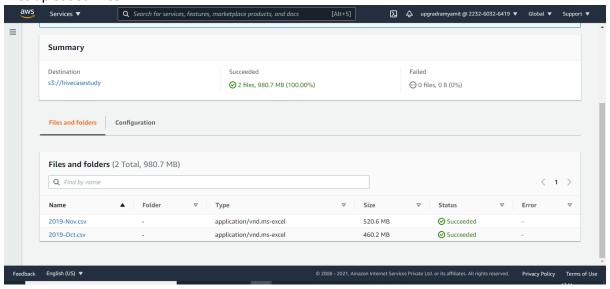
# Copying the data set into the HDFS:

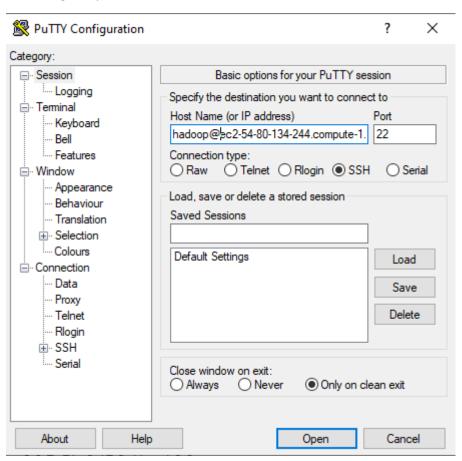
Launching an EMR cluster that utilizes the Hive services.

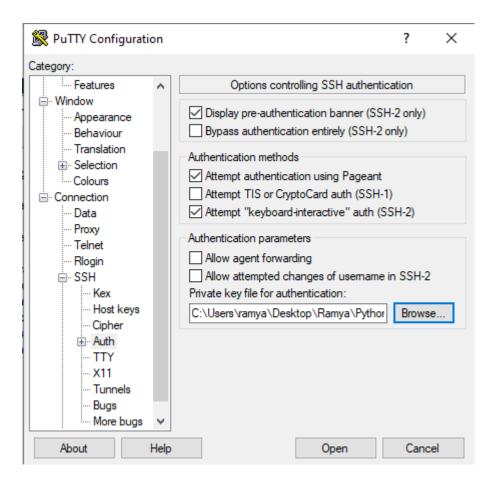


#### Files uploaded in s3



#### **Launching Putty**





#### Moving the data from the S3 bucket into the HDFS.

```
| Inadosphy-172-31-41-129 | jk Badoop fs -ls /lser/hive | Front 1 items | Fron
```

```
33: Number of Parks writtened

33: Number of large read operations—

33: Number of large read operations—

33: Number of write operations—

34: Number of write operations—

35: Number of write operations—

36: Number of write operations—

37: Number of write operations—

38: Number of large write write output stream.

10: Number of la
```

# Creating the database and launching Hive queries on your EMR cluster:

### Creating the structure of database

```
All the show deschaeses:

Of the show deschaes
```

Show the improvement of the performance after using optimization on any single query.

# Running Hive queries to answer the questions given below.

Finding the total revenue generated due to purchases made in October.

Finding the total sum of purchases per month in a single output.

Finding the change in revenue generated due to purchases from October to November.

```
Nive> set hive.strict.checks.cartesian.product=false;
hive> select o.Osale yn.Nsale,n.Nsale,n.Sale from
> (Select o.Osale yn.Nsale,n.Nsale,n.Sale) = 0.Osale from
> (Select o.Sale) yn. Select o.Osale yn. Select o.Osale from ecomerce_table! where month(event_time) = 10 and month(event_time) is not NULL and event_type = 'purchase' group by month(event_time)) o
> cross join
> cross join
| Select yn. Select y
```

Finding distinct categories of products ignoring the categories with null category code.

Finding the total number of products available under each category.

Finding the brand that had the maximum sales in October and November combined.

# Finding the brands that increased their sales from October to November.

```
veraclara 50.11 71.21000000000001 21.10000000000001
vilenta 197.6 231.209999999999 33.6099999999999
yu-r 271.409999999999 673.709999999999 402.29999999995
zeitun 708.66 2009.629999999999 1300.969999999999
Time taken: 21.927 seconds, Fetched: 152 row(s)
```

Writing a query to generate a list of top 10 users who spend the most.

```
exect User_id, sum(price) as sales from ecommerce_table.
here user_id is not NULL and event_type = 'purchase'
coup by user_id
der by sales Desc
NHIT 10;
     ID = hadoop_20210208145851_b889967b-d279-4b70-9d21-23eelb0e934f
VERTICES
                                         STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
                 2715.8699999999944
1645.969999999998
                 1645.9699999999998
1352.85
1329.449999999998
1295.48
1185.390000000003
1109.7
1097.589999999995
```

### Cleaning up

#### Dropping the database

```
hive> drop table ecommerce_table1;

OK
Time taken: 0.258 seconds
hive> drop table ecommerce_data;

OK
Time taken: 0.357 seconds
hive> drop database casestudy;

OK
Time taken: 0.357 seconds
hive> drop database casestudy;

OK
Time taken: 0.075 seconds
[hadoop@ip=172-31-47-49 -]$ hadoop fs -ls /user/hive/casestudy/*
-tw-tr--r- l hadoop hadoop 545839412 2021-02-08 15:41 /user/hive/casestudy/2019-Nov.csv
-tw-tr--r- l hadoop hadoop 545839412 2021-02-08 15:41 /user/hive/casestudy/2019-Nov.csv
-tw-tr--r- l hadoop hadoop 545839412 2021-02-08 15:41 /user/hive/casestudy/2019-Oct.csv
[hadoop@ip-172-31-47-49 -]$ hadoop fs -m -r - ( user/hive/casestudy
Deleted /user/hive/casestudy)
hadoop@ip-172-31-47-49 -]$ hadoop fs -ls /user/hive/casestudy/*
[hadoop@ip-172-31-47-49 -]$ hadoop fs -ls /user/hive/casestudy/*
[hadoop@ip-172-31-47-49 -]$ hadoop fs -ls /user/hive/casestudy/*
```

## Terminating the cluster

