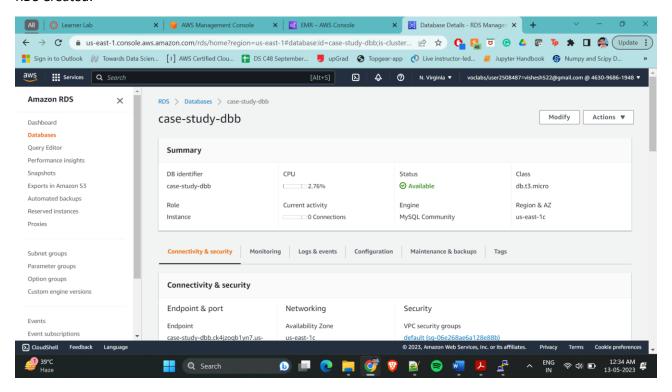
# Task 1

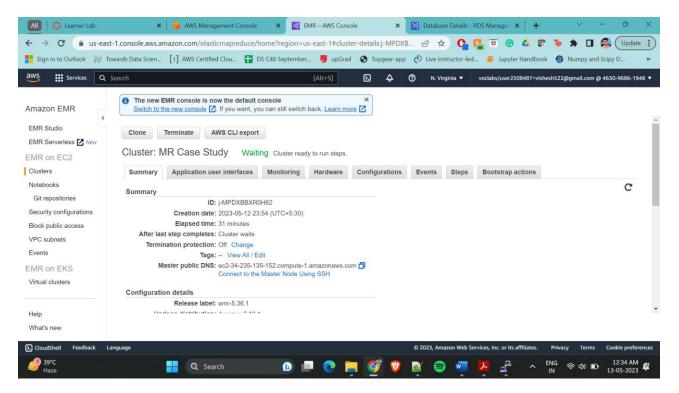
# Create an RDS instance in your AWS account and upload the data to the RDS instance

- 1) We have created RDS instance from Learner Lab and Launched EMR cluster.
- 2) Downloaded the required files for this task **yellow\_tripdata\_2017-01.csv** & **yellow\_tripdata\_2017-02.csv**
- 3) Connect RDS instance from EMR and create table and load records from csv files.
- 4) Loading the data to RDS

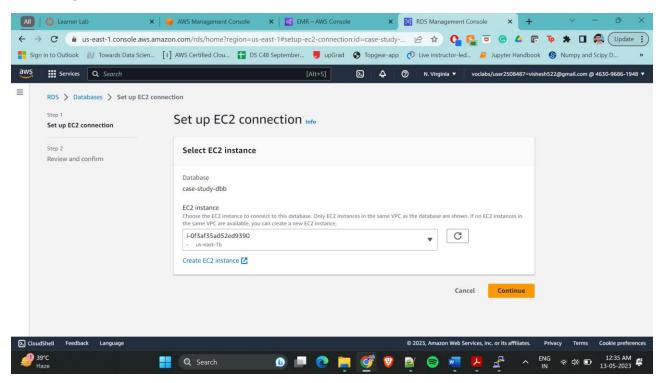
#### **RDS Created:**

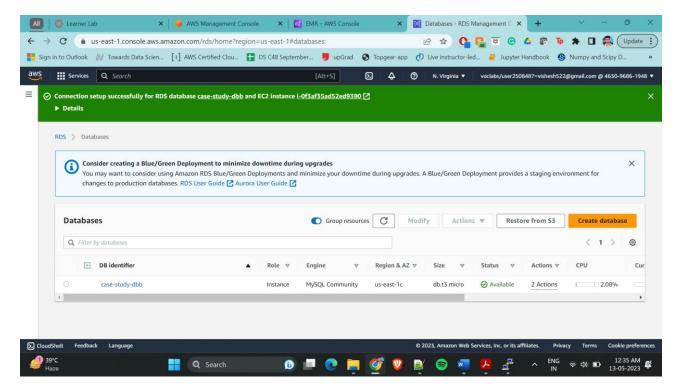


EMR Cluster:

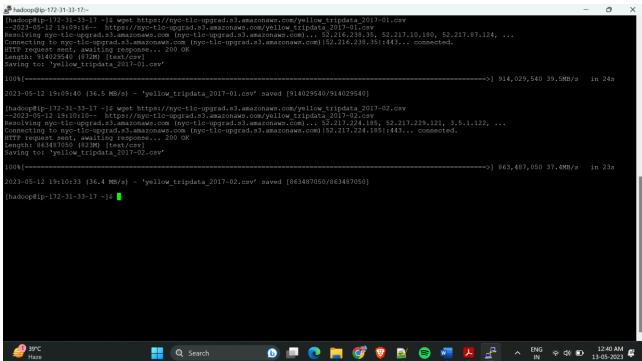


#### Connecting RDS with EMR EC2 instance:





Connecting EMR instance with PuTTy and then downloading yellow\_tripdata\_2017-01.csv &
yellow\_tripdata\_2017-02.csv :



### Connecting RDS with EMR Instance:

Hostname: case-study-dbb.ck4jzoqb1yn7.us-east-1.rds.amazonaws.com

mysql -h case-study-dbb.ck4jzoqb1yn7.us-east-1.rds.amazonaws.com -P 3306 -u admin -p

```
root@ip-172-31-33-17:/home/hadoop
[root@ip-172-31-33-17 hadoop]# mysql -h case-study-dbb.ck4jzoqblyn7.us-east-1.rds.ama
Enter password:
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MySQL connection id is 1297
Server version: 8.0.32 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> create database YellowTaxi;
Query OK, 1 row affected (0.04 sec)

MySQL [(none)]> use YellowTaxi;
Database changed
MySQL [YellowTaxi]>
```

```
create database YellowTaxi;
user YellowTaxi;
Creating table--
CREATE TABLE taxi
vendorID INT,
tpep_pickup_datetime DATETIME,
tpep_dropoff_datetime DATETIME,
passenger_count INT,
trip_distance DOUBLE,
puLocationID INT,
doLocationID INT,
rateCodeID INT,
store_and_fwd_flag VARCHAR(255),
payment_type INT,
fare_amount DOUBLE,
extra DOUBLE,
mta_tax DOUBLE,
improvement_surcharge DOUBLE,
tip_amount DOUBLE,
```

```
tolls_amount DOUBLE,
total_amount DOUBLE,
congestion_Surcharge DOUBLE,
airport_fee DOUBLE
);
```

## Load Data into Above table

```
LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-01.csv'
INTO TABLE taxi
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 LINES;
```

```
LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-02.csv'
INTO TABLE taxi
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 LINES;
```

```
MySQL [YellowTaxi]> LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-01.csv'
    -> INTO TABLE taxi
    -> FIELDS TERMINATED BY ','
    -> LINES TERMINATED BY '\n'
    -> IGNORE 1 LINES;
Query OK, 9710820 rows affected, 65535 warnings (2 min 19.95 sec)
Records: 9710820 Deleted: 0 Skipped: 0 Warnings: 29132460

MySQL [YellowTaxi]> LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-02.csv'
    -> INTO TABLE taxi
    -> FIELDS TERMINATED BY ','
    -> LINES TERMINATED BY '\n'
    -> IGNORE 1 LINES;
Query OK, 9169775 rows affected, 65535 warnings (2 min 2.74 sec)
Records: 9169775 Deleted: 0 Skipped: 0 Warnings: 27509325
```