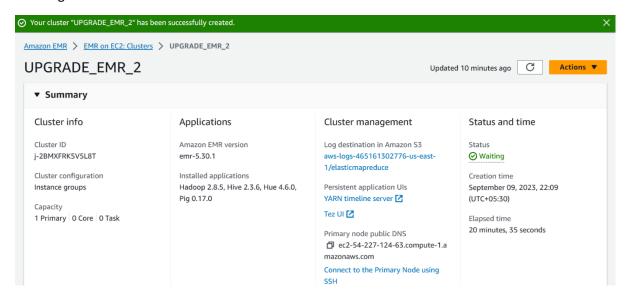CODE :

1. Creating Table in RDS :

```sql
REATE TABLE  yellow_trip(
 VendorID INT
,tpep_pickup_datetime DATETIME
,tpep_dropoff_datetime DATETIME
,passenger_count INT
,trip_distance FLOAT
,RatecodeID INT
,store_and_fwd_flag VARCHAR(225)
,PULocationID INT
,DOLocationID INT
,payment_type INT
,fare_amount FLOAT
,extra FLOAT
,mta_tax FLOAT
,tip_amount FLOAT
,tolls_amount FLOAT
,improvement_surcharge FLOAT
,total_amount FLOAT
,congestion_surcharge FLOAT
,Airport_fee FLOAT
);
```

2. Loding Data to RDS Table :

```sql
LOAD DATA LOCAL INFILE '/home/ec2-user/yellow_tripdata_2017-01.csv'
INTO TABLE yellow_trip
FIELDS TERMINATED BY','
LINES TERMINATED BY'\n'
IGNORE 1 LINES;
```
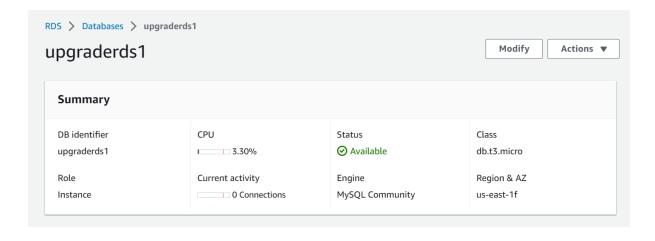
LOAD DATA LOCAL INFILE '/home/ec2-user/yellow_tripdata_2017-02.csv'

INTO TABLE yellow_trip

FIELDS TERMINATED BY','
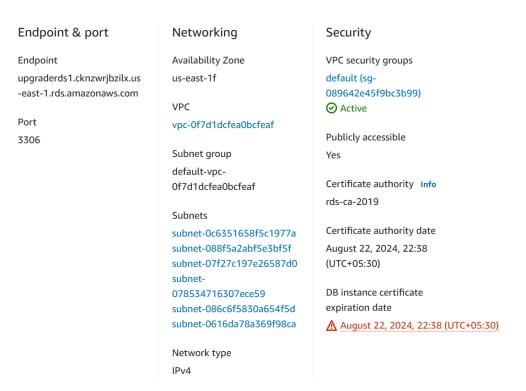
LINES TERMINATED BY'\n'
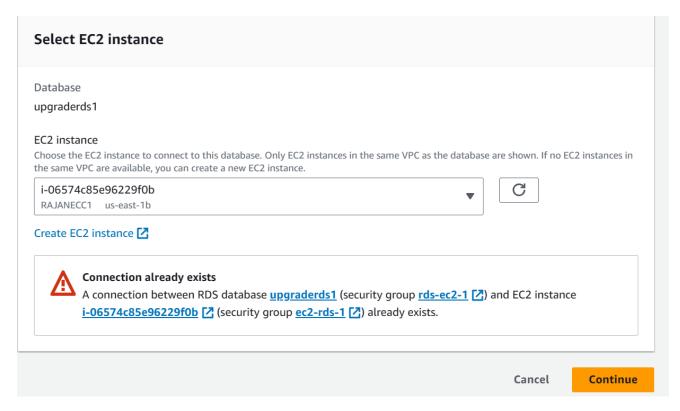
IGNORE 1 LINES;

SCREENSHOT :

Creating EMR instance

SSH to EMR instance

Creating RDS Instance

upgraderds1

Modify   Actions ▼

Summary

DB identifier	CPU	Status	Class
upgraderds1	▭ 3.30%	⊘ Available	db.t3.micro
Role	**Current activity**	**Engine**	**Region & AZ**
Instance	▭ 0 Connections	MySQL Community	us-east-1f

Endpoint & port

Endpoint

upgraderds1.cknzwrjbzilx.us-east-1.rds.amazonaws.com

Port

3306

Networking

Availability Zone

us-east-1f

VPC

vpc-0f7d1dcfea0bcfeaf

Subnet group

default-vpc-0f7d1dcfea0bcfeaf

Subnets

subnet-0c6351658f5c1977a
subnet-088f5a2abf5e3bf5f
subnet-07f27c197e26587d0
subnet-078534716307ece59
subnet-086c6f5830a654f5d
subnet-0616da78a369f98ca

Network type

IPv4

Security

VPC security groups

default (sg-089642e45f9bc3b99)

⊘ Active

Publicly accessible

Yes

Certificate authority   Info

rds-ca-2019

Certificate authority date

August 22, 2024, 22:38 (UTC+05:30)

DB instance certificate expiration date

⚠ August 22, 2024, 22:38 (UTC+05:30)

EMR connected to RDS

Select EC2 instance

Database
upgraderds1

EC2 instance
Choose the EC2 instance to connect to this database. Only EC2 instances in the same VPC as the database are shown. If no EC2 instances in the same VPC are available, you can create a new EC2 instance.

| i-06574c85e96229f0b | ▼ | ↻ |
| RAJANECC1   us-east-1b | | |

Create EC2 instance ↗

> ⚠ **Connection already exists**
> A connection between RDS database **upgraderds1** (security group **rds-ec2-1** ↗) and EC2 instance
> **i-06574c85e96229f0b** ↗ (security group **ec2-rds-1** ↗) already exists.

Cancel   **Continue**

Creating Table

```
MySQL [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
| upgrade            |
+--------------------+
5 rows in set (0.01 sec)

MySQL [(none)]> use upgrade;
Database changed
MySQL [upgrade]> CREATE TABLE  yellow_trip(
    ->   VendorID INT
    -> ,tpep_pickup_datetime DATETIME
    -> ,tpep_dropoff_datetime DATETIME
    -> ,passenger_count INT
    -> ,trip_distance FLOAT
    -> ,RatecodeID INT
    -> ,store_and_fwd_flag VARCHAR(225)
    -> ,PULocationID INT
    -> ,DOLocationID INT
    -> ,payment_type INT
    -> ,fare_amount FLOAT
    -> ,extra FLOAT
    -> ,mta_tax FLOAT
    -> ,tip_amount FLOAT
    -> ,tolls_amount FLOAT
    -> ,improvement_surcharge FLOAT
    -> ,total_amount FLOAT
    -> ,congestion_surcharge FLOAT
    -> ,Airport_fee FLOAT
    -> );
Query OK, 0 rows affected (0.03 sec)
```

Inserting data to RDS

```
mysql> use upgrade;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql>
mysql>
mysql>
mysql> LOAD DATA LOCAL INFILE '/home/ec2-user/yellow_tripdata_2017-01.csv'
    -> INTO TABLE yellow_trip
    -> FIELDS TERMINATED BY','
    -> LINES TERMINATED BY'\n'
    -> IGNORE 1 LINES;
Query OK, 9710820 rows affected, 65535 warnings (2 min 28.32 sec)
Records: 9710820  Deleted: 0  Skipped: 0  Warnings: 19421640

mysql> LOAD DATA LOCAL INFILE '/home/ec2-user/yellow_tripdata_2017-02.csv'
    -> INTO TABLE yellow_trip
    -> FIELDS TERMINATED BY','
    -> LINES TERMINATED BY'\n'
    -> IGNORE 1 LINES;
Query OK, 9169775 rows affected, 65535 warnings (2 min 23.22 sec)
Records: 9169775  Deleted: 0  Skipped: 0  Warnings: 18339550
```