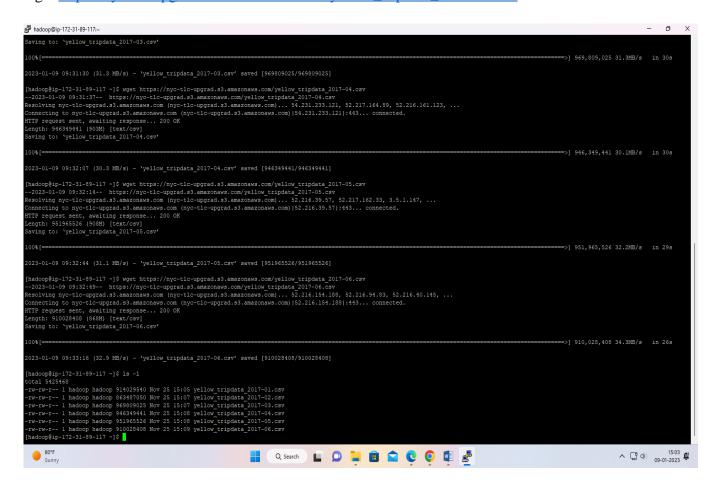
RDS

• Command to load csv files to EMR cluster.

wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-01.csv
wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-03.csv
wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-05.csv
wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-06.csv
wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-06.csv



• Command to create directory in HDFS

hadoop fs -mkdir /user/hbase/csv

Command to put files into HDFS

hadoop fs -put yellow_tripdata_2017-01.csv /user/hbase/csv

hadoop fs -put yellow_tripdata_2017-02.csv /user/hbase/csv

hadoop fs -put yellow_tripdata_2017-03.csv /user/hbase/csv

hadoop fs -put yellow_tripdata_2017-04.csv /user/hbase/csv

hadoop fs -put yellow_tripdata_2017-05.csv /user/hbase/csv

hadoop fs -put yellow_tripdata_2017-06.csv /user/hbase/csv

Command to list files in HDFS

hadoop fs -ls /user/hbase/csv

```
♣ hadoop@ip-172-31-89-117:~
                                                       [hadoop@ip-172-31-89-117 ~]$
[hadoop@ip-172-31-89-117 ~]$ hadoop fs -ls /user/hbase/csv
Found 6 items
-rw-r--r-- 1 hadoop hbase 914029540 2023-01-09 09:45 /user/hbase/csv/yellow tripdat
a 2017-01.csv
2017-02.csv
2017-03.csv
_rw-r--r-- 1 hadoop hbase 946349441 2023-01-09 09:46 /user/hbase/csv/yellow tripdat
2017-04.csv
-rw-r--r-- 1 hadoop hbase 951965526 2023-01-09 09:46 /user/hbase/csv/yellow_tripdat
2017-05.csv
[hadoop@ip-172-31-89-117 ~]$
```

• Command for connecting to RDS from EMR cluster

mysql -h upgradassignmentdb.cdwr877prmiq.us-east-1.rds.amazonaws.com -P 3306 -u admin –p

• Command for creating database

create database mapreduce1

• Command for using database use mapreduce1

Command for creating table

```
CREATE TABLE Taxi(
  Trip_no int NOT NULL AUTO_INCREMENT PRIMARY KEY,
  VendorID int,
  tpep_pickup_datetime DATETIME,
  tpep_dropoff_datetime DATETIME,
  passenger_count int,
  trip_distance float,
  RatecodeID int,
  store and fwd flag varchar(10),
  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);
```

```
hadoop@ip-172-31-89-117:~
                                                                                     MySQL [mapreducel]> CREATE TABLE Taxi(
          Trip_no int NOT NULL AUTO_INCREMENT PRIMARY KEY ,
          VendorID int,
          tpep_pickup_datetime DATETIME,
   congestion surcharge float,
         tpep dropoff datetime DATETIME,
         passenger_count int,
        trip_distance float,
RatecodeID int,
         store and fwd flag varchar(10),
         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 (0.16 sec)
MySQL [mapreducel]> list
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds
to your MySQL server version for the right syntax to use near 'list' at line 1
MySQL [mapreducel]> show tables
 Tables in mapreducel |
```

• Inserting first 2 csv files data to Taxi table, following commands need to be typed inside mysql

LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-01.csv' INTO TABLE Taxi FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES (VendorID ,tpep_pickup_datetime, tpep_dropoff_datetime, passenger_count, trip_distance, RatecodeID, store_and_fwd_flag, PULocationID, DOLocationID, payment_type, fare_amount, extra, mta_tax, tip_amount, tolls_amount, improvement_surcharge, total_amount, congestion_surcharge, airport_fee);

LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-02.csv' INTO TABLE Taxi FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES (VendorID ,tpep_pickup_datetime, tpep_dropoff_datetime, passenger_count, trip_distance, RatecodeID, store_and_fwd_flag, PULocationID, DOLocationID, payment_type, fare_amount, extra, mta_tax, tip_amount, tolls_amount, improvement_surcharge, total_amount, congestion_surcharge, airport_fee);

```
hadoop@ip-172-31-90-95:
  total_amount, congestion_surcharge, airport_fee);
ERROR 2 (HY000): File '/home/Hadoop/yellow_tripdata_2017-02.csv' not found (Errcode:
MySQL [mapreducel]> LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-02.csv'
INTO TABLE Taxi FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES
(VendorID ,tpep_pickup_datetime, tpep_dropoff_datetime , passenger_count , trip_d istance, RatecodeID, store_and_fwd_flag , PULocationID , DOLocationID, payment_ty pe , fare_amount, extra, mta_tax, tip_amount, tolls_amount, improvement_surcharge
, total amount, congestion surcharge, airport fee);
Query OK, 9169775 rows affected, 65535 warnings (1 min 48.70 sec)
Records: 9169775 Deleted: 0 Skipped: 0 Warnings: 18339550
MySQL [mapreducel]> select count (*) from Taxi
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corre
sponds to your MySQL server version for the right syntax to use near '*) from Taxi'
t line l
MySQL [mapreducel]> select count(*) from Taxi;
| count(*) |
  18880597 |
 row in set (42.29 sec)
MySQL [mapreducel]>
```