1. Downloading files to EMR using wget and listing them.

2. Logging in to RDS and selecting data base.

mysql -h nyc-tlc-mr-db.cv4nmpnzjxab.us-east-1.rds.amazonaws.com -P 3306 -u admin -p use taximrdb;

```
[root8ip-172-31-58-150 hadoop]# mysql -h nyc-tlc-mr-rds.cv4nmpnzjxab.us-east-l.r
ds.amazonaws.com -P 3306 -u admin -p
Enter password
Welcome to the MariaDB monitor. Commands end with : or \g.
Your MysQlc. Connection id is 17
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.
NySQL (none))> use taximrdb;
Database changed
```

3. Creating table and adding autoincrement column.

CREATE TABLE yellow\_taxi\_trips (VendorID INT, tpep\_pickup\_datetime DateTime, tpep\_dropoff\_datetime DateTime, passenger\_count INT, trip\_distance FLOAT, RatecodeID INT,store\_and\_fwd\_flag CHAR(1), PULocationID INT,DOLocationID INT, payment\_type INT, fare\_amount FLOAT, mta\_tax FLOAT, extra FLOAT, tip\_amount FLOAT, tolls\_amount FLOAT, improvement\_surcharge FLOAT, total\_amount FLOAT, congestion\_surcharge FLOAT, airport\_fee FLOAT);

ALTER TABLE yellow\_taxi\_trips ADD (trip\_id INT PRIMARY KEY AUTO\_INCREMENT);

4. Loading data from the files

LOAD DATA LOCAL INFILE '/home/hadoop/yellow\_tripdata\_2017-01.csv' INTO TABLE yellow\_taxi\_trips FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES;

```
MySQL (taximrdb)> LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-01.csv' INTO TABLE yellow_taxi_trips FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES; Query GK, 9710820 Poleted: 0 Skipped: 0 Warnings: 29132460

MySQL (taximrdb)> 1
```

LOAD DATA LOCAL INFILE '/home/hadoop/yellow\_tripdata\_2017-02.csv' INTO TABLE yellow taxi trips FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES;

```
MySQL [taximrdb]> LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-02.csv' INTO TABLE yellow_taxi_trips FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES;
Query OK, 9169775 rows affected, 65535 warnings (2 min 41.39 sec)
Records: 9169775 Deleted: 0 Skipped: 0 Warnings: 27509325

MYSQL [taximrdb]>
```

5. Checking count and data

```
MysQL [taximrdb]> SELECT COUNT(*) FROM yellow_taxi_trips;

+-----+
| COUNT(*) |

+------+
| 18880595 |

+------+
1 row in set (37.40 sec)

MysQL [taximrdb]>
```

SELECT trip\_id, VendorID, tpep\_pickup\_datetime, tpep\_dropoff\_datetime, passenger\_count, trip\_distance, RatecodeID, store\_and\_fwd\_flag, PULocationID, DOLocationID, payment\_type, fare\_amount, mta\_tax, extra, tip\_amount, tolls\_amount, improvement\_surcharge, total\_amount, congestion\_surcharge, airport\_fee from yellow taxi trips LIMIT 5;

root@ip-17	2-31-58-150:/home/h	adoop		- /											-	0
											ance, RatecodeID, rge, airport fee :				DOLocationID	, paymen
						passenger_count rcharge   total_ar +					store_and_fwd_fla				payment_type	
			+ 00:32:05 0													
													237			
rows in	set (0.01 sec)															
	imrdb]> SELECT yellow_taxi_t															, payme
trip_id	VendorID   t	pep_pickup		tpep drop	off datetime	passenger count					store_and_fwd_fla	ag   PULocation			payment type	
	1 1 2 1 1 2 1 1 2	017-01-01 017-01-01 017-01-01	00:43:25 00:49:10 00:36:42	2017-01-0 2017-01-0 2017-01-0	1 00:37:48 1 00:47:42 1 00:53:53 1 00:41:09						N N		140   237   140   41	236   140   237   42	2   2   2	
			00:07:41			1 +					N			263		
	set (0.00 sec)		fare_amou		extra, tip_ar	mount, tolls_amour		ovement_su						_fee from ye		
trip_id	fare_amount	mta_tax	extra	tip_amount	tolls_amoun	t   improvement_su	ırcharge	total_a	mount   co	onge:	stion_surcharge	airport_fee				
	6   11 +		0.5     0.5   ++													
rows in	set (0.00 sec)															

6. Row count in file – including headers

```
MySQL [taximrdb]> exit;
Bye
[root@ip-172-31-58-150 hadoop]# wc -1 yellow_tripdata_2017-01.csv
9710821 yellow_tripdata_2017-01.csv
[root@ip-172-31-58-150 hadoop]# wc -1 yellow_tripdata_2017-02.csv
9169776 yellow_tripdata_2017-02.csv
[root@ip-172-31-58-150 hadoop]#
```