Data Ingestion from the RDS to HDFS using Sqoop

Sqoop Import command used for importing table from RDS to HDFS:

```
sqoop import \
--connect jdbc:mysql://upgraddetest.cyaielc9bmnf.us-east-
1.rds.amazonaws.com/testdatabase \
--table SRC_ATM_TRANS \
--username student --password STUDENT123 \
--target-dir /user/root/ SRC_ATM_TRANS \
-m 1
```

```
File System Counters
                               FILE: Number of bytes written=189595
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=87
                               HDFS: Number of bytes written=531214815
                               HDFS: Number of read operations=4
                               HDFS: Number of large read operations=0
                               HDFS: Number of write operations=2
                Job Counters
                               Launched map tasks=1
                               Other local map tasks=1
Total time spent by all maps in occupied slots (ms)=1132128
Total time spent by all reduces in occupied slots (ms)=0
Total time spent by all map tasks (ms)=23586
                               Total vcore-milliseconds taken by all map tasks=23586
Total megabyte-milliseconds taken by all map tasks=36228096
               Map-Reduce Framework
Map input records=2468572
                               Map output records=2468572
Input split bytes=87
                               Spilled Records=0
Failed Shuffles=0
                               Merged Map outputs=0
GC time elapsed (ms)=270
                              CPU time spent (ms)=27470
CPU time spent (ms)=27470
Physical memory (bytes) snapshot=633417728
Virtual memory (bytes) snapshot=3308995872
Total committed heap usage (bytes)=532676608
                File Input Format Counters
                               Bytes Read=0
               File Output Format Counters
Bytes Written=531214815
22/12/14 13:27:45 INFO mapreduce.ImportJobBase: Transferred 586,6859 MB in 41.9952 seconds (12.8634 MB/sec)
22/12/14 13:27:45 INFO mapreduce.ImportJobBase: Retrieved 2468572 records
```

In the screenshot above we can see 2468572 rows have been retrieved.

Command used to see the list of imported data in HDFS:

hadoop fs -ls /user/root/SRC_ATM_TRANS

Command used to view the imported data in HDFS:

hadoop fs -cat /user/root/SRC ATM TRANS/part-m-00000

```
989,100,4,200,0.138,92,500,Rain,light rain
2017, December, 31, Sunday, 23, Active, 24, NCR, Hobro, Adelgade, 31,9500, 56.638,9.794, DKK, Mastercard - on-us, 7780, Withdrawal,,,56.643,9.790,2620167, Hobro, 277.589,999,
87,6,208,0.000, 76,803, Clouds, broken clouds
2017, December, 31, Sunday, 23, Active, 20, NCR, Bispensgade, Bispensgade, 35,9800,57.453,9.996, DKK, Mastercard - on-us, 2830, Withdrawal,,,57.464,9.982,2620214, Hjorring,
278,589,998, 99, 89, 89, 810,0.000, 76,803, Clouds, broken clouds
2017, December, 31, Sunday, 23, Active, 28, NCR, Lift, gist, fix, r. Aff&msterbrogade, 8,9670,56.967,9.253, DKK, VISA, 812, Withdrawal,,,56.962,9.258,2617467, Logstor, 277.589,999,
87,6,208,0.000, 76,803, Clouds, broken clouds
2017, December, 31, Sunday, 23, Active, 24,9 NCR, Lift, gist, fix, r. Aff&msterbrogade, 8,9670,56.967,9.253, DKK, VISA, 5568, Withdrawal,,,56.962,9.258,2617467, Logstor, 277.589,999,
87,6,208,0.000, 76,803, Clouds, broken clouds
2017, December, 31, Sunday, 23, Active, 49, NCR, Bindslev, Nāf, rrebro, 18,9881,57.541,10.200, DKK, MasterCard, 5403, Withdrawal,,,57.471,10.203,2614010, Sindal, 277.589,999,
87,6,208,0.000, 76,803, Clouds, broken clouds
2017, December, 31, Sunday, 23, Active, 80, NCR, Bindslev, Nāf, rrebro, 18,9881,57.541,10.200, DKK, MasterCard, 5403, Withdrawal,,,57.471,10.203,2614010, Sindal, 277.589,999,
87,6,208,0.000, 76,803, Clouds, broken clouds
2017, December, 31, Sunday, 23, Active, 56, Diebold Nixdorf, Kāf, ge, 58f, indre Alle, 1,4600,55.454,12.181, DKK, Visa Dankort - on-us, 5351, Withdrawal,,,55.588,12.251,262
2017, December, 31, Sunday, 23, Active, 80, Diebold Nixdorf, Kāf, ge, 58f, indre Alle, 1,4600,55.454,12.181, DKK, Visa Dankort - on-us, 5351, Withdrawal,,,57.048,9.993,76,628,000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,76,803,1000,800,800,800,76,803,1000,800,800,800,800,8
```