



Data Ingestion from the RDS to HDFS using Sqoop

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

Before running the Scoop command, I made sure the target directory is not already created. Otherwise, the Scoop import command would throw an error:

hadoop fs -rm -r /user/root/SRC_ATM_TRANS

```
[root@ip-172-31-93-227 ~]# hadoop fs -rm -r /user/root/SRC_ATM_TRANS rm: `/user/root/SRC_ATM_TRANS': No such file or directory [root@ip-172-31-93-227 ~]# [
```

Sqoop import command is used to import the data from mysql server to HDFS folder.

sqoop import \

- --connect jdbc:mysql://upgraddetest.cyaielc9bmnf.us-east-1.rds.amazonaws.com/testdatabase -
- -driver org.mariadb.jdbc.Driver \
- --table SRC ATM TRANS \
- --username student --password STUDENT123 \
- --target-dir /user/root/SRC_ATM_TRANS \
- -m 1





```
24/01/14 15:20:34 INFO mapreduce.Job: Running job: job_1705242747862_0001
24/01/14 15:27:03 INFO mapreduce.Job: Job job_1705242747862_0001 running in uber mode: false
24/01/14 15:27:03 INFO mapreduce.Job: map 0% reduce 0%
24/01/14 15:27:28 INFO mapreduce.Job: map 100% reduce 0%
24/01/14 15:27:28 INFO mapreduce.Job: Job job_1705242747862_0001 completed successfully
24/01/14 15:27:28 INFO mapreduce.Job: Counters: 30
File System Counters
                         FILE: Number of bytes read=0
                         FILE: Number of bytes written=190038
                          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
                         Other local map tasks=1
Total time spent by all maps in occupied slots (ms)=1065600
Total time spent by all reduces in occupied slots (ms)=0
Total time spent by all map tasks (ms)=22200
Total vcore-milliseconds taken by all map tasks=22200
Total megabyte-milliseconds taken by all map tasks=34099200
            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)=210
                         CPU time spent (ms)=25870
                         Physical memory (bytes) snapshot=612061184
Virtual memory (bytes) snapshot=3296563200
Total committed heap usage (bytes)=538443776
            File Input Format Counters
            File Output Format Counters
                         Bytes Written=531214815
24/01/14 15:27:28 INFO mapreduce.ImportJobBase: Transferre<u>d 506.6</u>059 MB in 43.217 seconds (11.7224 MB/sec)
24/01/14 15:27:28 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.
```

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

hadoop fs -ls /user/root/SRC_ATM_TRANS

Screenshot of the imported data: