



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/spar_nord_bank_atm \
- -m 1

```
A hadoop@ip-172-31-26-34:~
 hadoop@ip-172-31-26-34 ~]$ sqoop import --connect jdbc:mysql://upgraddete
nt --password STUDENT123 --target-dir /user/root/spar_nord_bank_atm -m l
hadoop@ip-172-31-26-34:~
                  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
                 Launched map tasks=1
                 Other local map tasks=1
                  Total time spent by all maps in occupied slots (ms)=1128672
                  Total time spent by all reduces in occupied slots (ms)=0
                  Total time spent by all map tasks (ms)=23514
                  Total vcore-milliseconds taken by all map tasks=23514
                  Total megabyte-milliseconds taken by all map tasks=36117504
        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)=218
                 CPU time spent (ms)=26630
                 Physical memory (bytes) snapshot=623423488
Virtual memory (bytes) snapshot=3301744640
                 Total committed heap usage (bytes)=537395200
         File Input Format Counters
                 Bytes Read=0
         File Output Format Counters
                 Bytes Written=531214815
22/12/19 10:37:59 INFO mapreduce.ImportJobBase: Transferred 506.6059 MB in 39.2065 seconds (12.9215 MB/sec)
22/12/19 10:37:59 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.
```

Total of **2468572** rows have been retrieved.





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

hadoop fs -ls /user/root/spar_nord_bank_atm

There are two items in the screenshot:

- The first file is the success file, indicating that the MapReduce job was successful.
- The second file 'part-m-00000' is the one that I imported. Since we used only one mapper in my import command that is why the data is in a single file.

hadoop fs -cat /user/root/spar_nord_bank_atm/part-m-00000

```
S. 3,2,200, 0.00, $4,500, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,00, $41,
```