



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 --username student --password STUDENT123 --table SRC_ATM_TRANS --target-dir /user/root/etl -m 1

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

hadoop fs -ls /user/root/etl

Screenshot of the imported data:

```
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)=1073376
Total time spent by all reduces in occupied slots (ms)=0
Total time spent by all map tasks (ms)=22362
Total vcore-milliseconds taken by all map tasks=22362
Total megabyte-milliseconds taken by all map tasks=34348032
                                      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)=187
                                                                     CPU time spent (ms)=25550
                                                                     Physical memory (bytes) snapshot=643862528
                                                                    Virtual memory (bytes) snapshot=3311247360
Total committed heap usage (bytes)=526909440
                                      File Input Format Counters
                                                                     Bytes Read=0
      File Output Format Counters
Bytes Written=531214815

22/10/29 02:49:37 INFO mapreduce.ImportJobBase: Transferred 506.6059 MB in 42.0564 seconds (12.0459 MB/sec)

22/10/29 02:49:37 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.

[[root@ip-172-31-45-144 mysql-connector-java-8.0.25]# hadoop fs -ls /user/root/etl
round 2 Items
-rw-r--r- 1 root hdfsadmingroup 0 2022-10-29 02:49 /user/root/etl/_SUCCESS
-rw-r--r- 1 root hdfsadmingroup 531214815 2022-10-29 02:49 /user/root/etl/_part-m-00000
[root@ip-172-31-45-144 mysql-connector-java-8.0.25]# hadoop fs -cat /user/root/etl/part-m-00000 | head -5
2017, January, 1, Sunday, 0, Active, 1, NCR, NĀfĀ; stved, Farimagsvej, 8, 4700, 55.233, 11.763, DKK, MasterCard, 5643, Withdrawal, ,, 55.230, 11.761, 2616038, Naest ved, 281.150, 1014, 87, 7, 260, 0. 215, 92, 500, Rain, light rain
2017, January, 1, Sunday, 0, Inactive, 2, NCR, Vejgaard, Hadsundvej, 20, 9000, 57.043, 9.950, DKK, MasterCard, 1764, Withdrawal, ,, 57.048, 9.935, 2616235, NĀfĀ, rresundby, 280.640, 1020, 93, 9, 250, 0. 590, 92, 500, Rain, light rain
2017, January, 1, Sunday, 0, Inactive, 2, NCR, Vejgaard, Hadsundvej, 20, 9000, 57.043, 9.950, DKK, VISA, 1891, Withdrawal, ,, 57.048, 9.935, 2616235, NĀfĀ, rresundby, 280.640, 1020, 93, 9, 250, 0. 590, 92, 500, Rain, light rain
2017, January, 1, Sunday, 0, Inactive, 3, NCR, Ikast, RĀfĀWdhusstrĀf¦det, 12, 7430, 56.139, 9.154, DKK, VISA, 4166, Withdrawal, ,, 56.139, 9.158, 2619426, Ikast, 281.150, 1011, 100, 6, 240, 0.000, 75, 300, Drizzle, light intensity drizzle
2017, January, 1, Sunday, 0, Active, 4, NCR, Svogerslev, BrĀfĀ, nsager, 1, 4000, 55.634, 12.018, DKK, MasterCard, 5153, Withdrawal, ,, 55.642, 12.080, 2614481, Rosk ilde, 280.610, 1014, 87, 7, 260, 0.000, 88, 701, Mist, mist cat: Unable to write to output stream.

[root@ip-172-31-45-144 mysql-connector-java-8.0.25]# □
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