



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

```
2023-07-17 15:35:22,844 INFO mapreduce.Job: Running job: job_1689605148836_0001
2023-07-17 15:35:34,100 INFO mapreduce.Job: Job job_1689605148836_0001 running in uber mode: false
2023-07-17 15:35:34,101 INFO mapreduce.Job: map 0% reduce 0%
2023-07-17 15:36:04,330 INFO mapreduce.Job: map 100% reduce 0%
2023-07-17 15:36:05,342 INFO mapreduce.Job: Job job 1689605148836_0001 completed successfully 2023-07-17 15:36:05,466 INFO mapreduce.Job: Counters: 33
                        FILE: Number of bytes read=0
                       FILE: Number of bytes written=297869
                        FILE: Number of read operations=0
                        FILE: Number of large read operations=0
                        FILE: Number of write operations=0
                        HDFS: Number of bytes read=85
                        HDFS: Number of bytes written=531214815
                        HDFS: Number of read operations=6
                        HDFS: Number of large read operations=0
                        HDFS: Number of write operations=2
                        HDFS: Number of bytes read erasure-coded=0
            Job Counters
                       Launched map tasks=1
                        Total time spent by all maps in occupied slots (ms)=1342464 Total time spent by all reduces in occupied slots (ms)=0 \,
                        Total time spent by all map tasks (ms)=27968 Total vcore-milliseconds taken by all map tasks=27968
                        Total megabyte-milliseconds taken by all map tasks=42958848
           Map-Reduce Framework
                       Map input records=2468572
                        Map output records=2468572
                        Input split bytes=85
                        Spilled Records=0
                        Failed Shuffles=0
                        GC time elapsed (ms)=255
                       Physical memory (bytes) snapshot=625508352
Virtual memory (bytes) snapshot=3088277504
Total committed heap usage (bytes)=585105408
                       Peak Map Physical memory (bytes)=630480896
Peak Map Virtual memory (bytes)=3096535040
                       Bytes Read=0
            File Output Format Counters
File Output Format Counters
Bytes Written=531214815

2023-07-17 15:36:05,476 INFO mapreduce.ImportJobBase: Transferred 506.6059 MB in 49.127 seconds (10.3122 MB/sec)

2023-07-17 15:36:05,479 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.
 [hadoop@ip-172-31-7-110 ~]$
```

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/spar_nord_bank_atm

Screenshot of the imported data:

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17, February, 23, Thursday, 19, Knective, 80, NCR, Storcenter indg. A, Hobrovej, 452, 9200, 57.005, 9.876, DEE, VISA, 4776, Withdrawal,,, 56.972, 9.840, 261201, Svenstrup, 274.704, 984, 88, 66, 0.000, 59, 304, 2004, coverant clouds
17, February, 23, Thursday, 19, Ancive, 52, NCR, FaraÑfÂ, Torvet, 8, 9640, 56.771, 9.340, DEEK, Mastercard - on-us, 2120, Withdrawal,,, 56.972, 9.840, 261201, Svenstrup, 274.704, 994, 88, 86, 000, 92, 304, 2004, cytose, cytoset clouds
17, February, 23, Thursday, 19, Ancive, 64, NCR, Horsens, GråfÂ, nlandsvej, 5, 0700, 55.835, 9.854, DEE, MCR, Mastercard - on-us, 8725, Withdrawal,,, 55.861, 9.850, 2619771, Horsens, 274.704, 994, 88, 86, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 000, 92, 304, 00
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