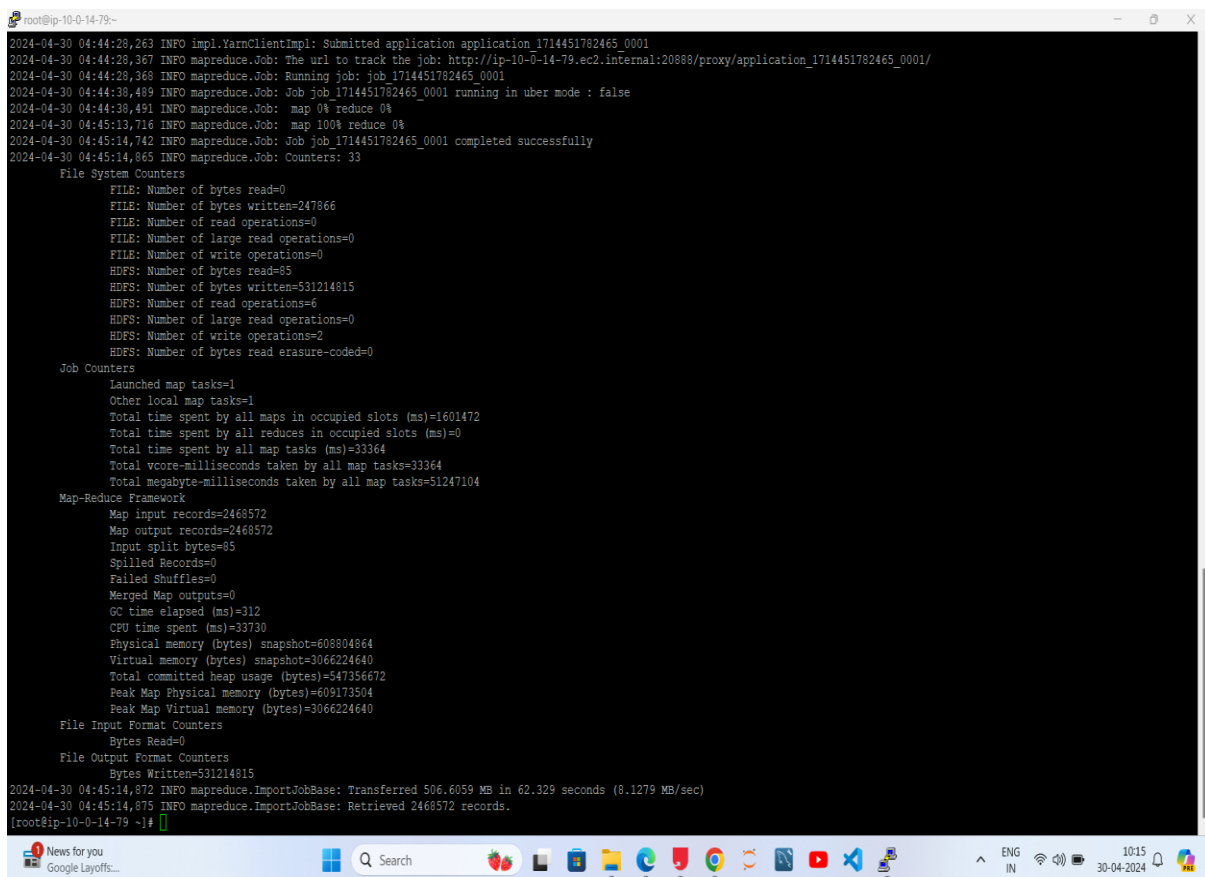


# Data Ingestion from the RDS to HDFS using Sqoop

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

```
sqoop import \  
--connect jdbc:mysql://upgraddetest.cyaieic9bmnf.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
```

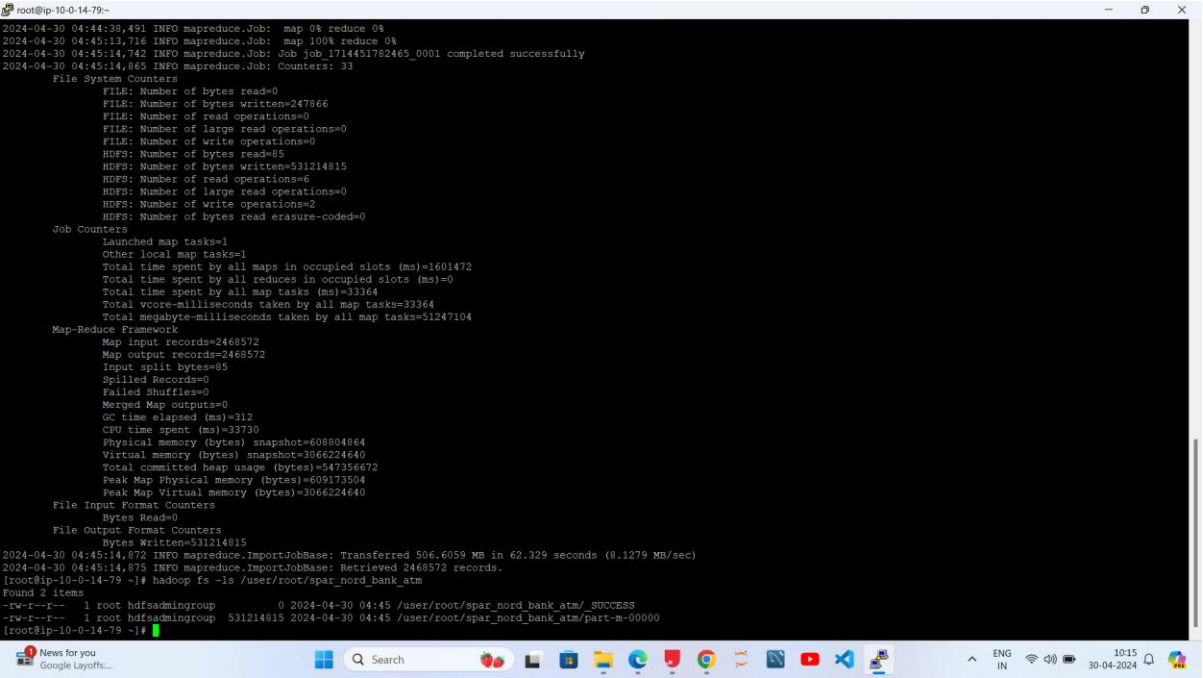


```
root@ip-10-0-14-79:~  
2024-04-30 04:44:28,263 INFO impl.YarnClientImpl: Submitted application application_1714451782465_0001  
2024-04-30 04:44:28,367 INFO mapreduce.Job: The url to track the job: http://ip-10-0-14-79.ec2.internal:20888/proxy/application_1714451782465_0001/  
2024-04-30 04:44:28,368 INFO mapreduce.Job: Running job: job_1714451782465_0001  
2024-04-30 04:44:38,489 INFO mapreduce.Job: Job job_1714451782465_0001 running in uber mode : false  
2024-04-30 04:44:38,491 INFO mapreduce.Job: map 0% reduce 0%  
2024-04-30 04:45:13,716 INFO mapreduce.Job: map 100% reduce 0%  
2024-04-30 04:45:14,742 INFO mapreduce.Job: Job job_1714451782465_0001 completed successfully  
2024-04-30 04:45:14,865 INFO mapreduce.Job: Counters: 33  
File System Counters  
FILE: Number of bytes read=0  
FILE: Number of bytes written=247866  
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  
Other local map tasks=1  
Total time spent by all maps in occupied slots (ms)=1601472  
Total time spent by all reduces in occupied slots (ms)=0  
Total time spent by all map tasks (ms)=33364  
Total vcore-milliseconds taken by all map tasks=33364  
Total megabyte-milliseconds taken by all map tasks=51247104  
Map-Reduce Framework  
Map input records=2468572  
Map output records=2468572  
Input split bytes=85  
Spilled Records=0  
Failed Shuffles=0  
Merged Map outputs=0  
GC time elapsed (ms)=312  
CPU time spent (ms)=33730  
Physical memory (bytes) snapshot=608804864  
Virtual memory (bytes) snapshot=3066224640  
Total committed heap usage (bytes)=547356672  
Peak Map Physical memory (bytes)=609173504  
Peak Map Virtual memory (bytes)=3066224640  
File Input Format Counters  
Bytes Read=0  
File Output Format Counters  
Bytes Written=531214815  
2024-04-30 04:45:14,872 INFO mapreduce.ImportJobBase: Transferred 506.6059 MB in 62.329 seconds (8.1279 MB/sec)  
2024-04-30 04:45:14,875 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.  
[root@ip-10-0-14-79 ~]#
```

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



In the screenshot above we can see two items: - 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 I used only one mapper in my import command, thus the data is in a single file.

Screenshot of the imported data:

A portion of data read from part-m-00000 file

