## DATA INGESTION USING SQOOP

In the given screenshot the following code is executed: sqoop import \
 --connect jdbc:mysql://upgraddetest.cyaielc9bmnf.us-east1.rds.amazonaws.com/testdatabase\
 --table SRC\_ATM\_TRANS \
 --username student --password STUDENT123 \
 --target-dir /user/root/spar\_nord\_bank\_atm \
 -m 1

```
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2. Specifications used by the system for running the data ingestion job:

```
File System Counters
        FILE: Number of bytes read=0
        FILE: Number of bytes written=189605
        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
       Launched map tasks=1
       Other local map tasks=1
        Total time spent by all maps in occupied slots (ms)=1166400
        Total time spent by all reduces in occupied slots (ms)=0
       Total time spent by all map tasks (ms)=24300
       Total vcore-milliseconds taken by all map tasks=24300
        Total megabyte-milliseconds taken by all map tasks=37324800
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)=276
       CPU time spent (ms)=27910
        Physical memory (bytes) snapshot=618344448
        Virtual memory (bytes) snapshot=3298091008
        Total committed heap usage (bytes)=505413632
File Input Format Counters
        Bytes Read=0
File Output Format Counters
       Bytes Written=531214815
```

3. AS per the source we imported 2468572 records

```
Bytes Read=0
File Output Format Counters
Bytes Written=531214815

22/09/11 21:40:59 INFO mapreduce.ImportJobBase: Transferred 506.6059 MB in 41.6895 seconds (12.1519 MB/sec)

22/09/11 21:40:59 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.
```

4. On using hadoop fs -ls /user/root/spar\_nord\_bank\_atm

5. Screenshot showing the imported data

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17. February, 23. Thursday, 19. Inactive, 88. NCR, Storcenter indg. A. Mobrove, 402, 9200, 57.005, 9.876, DKK, VISA, 4776, Mithdrawal., , 56.972, 9.848, 261201, Svenstrup, 274.704, 994, 66, 0.000, 92, 804, Clouds, overcast clouds
17. February, 23. Thursday, 19. Active, 93. NCR, Fersāfā, Torvet, 8, 9640, 56.771, 9.340, UKK, Hastercard - on-us, 2120, Mithdrawal., , 56.773, 9.339, 2622310, Farso, 274.704, 994, 88, 8100, 922, 804, Clouds, overcast clouds
17. February, 23. Thursday, 19. Active, 62. NCR, Farsāfā, Torvet, 8, 9640, 56.771, 9.340, UKK, Hastercard - on-us, 3120, Mithdrawal., , 56.773, 9.339, 2622310, Farso, 274.704, 994, 88, 8100, 922, 804, Clouds, overcast clouds
17. February, 23. Thursday, 19. Active, 64. NCR, Morsens, Grāfā, Hlandsvej, 5, 8700, 55.889, 9.854, DKK, Hastercard - on-us, 3729, Mithdrawal., , 55. 861, 9.850, 2619771, Horsens, 273.830, 80, 670, 0.000, 75, 600, Snow, Light snow
17. February, 23. Thursday, 19. Active, 10. NCR, Nāfā, Iresundby, Torvet, 6, 9400, 57.059, 9.922, DKK, Hastercard - on-us, 7287, Mithdrawal., , 57.048, 9.919, 2624886, Aalborg, 274.704, 994, 86, 9.000, 52, 804, Clouds, Overcast clouds
17. February, 23. Thursday, 19. Active, 10. NCR, Nāfā, Iresundby, Torvet, 6, 9400, 57.059, 9.822, DKK, Hastercard - on-us, 5383, Mithdrawal., , 57.048, 9.919, 2624886, Aalborg, 274.704, 594, 86, 0.000, 52, 804, Clouds, Overcast clouds
17. February, 23. Thursday, 19. Active, 10. NCR, Nāfā, Iresundby, Torvet, 6, 9400, 57.059, 9.822, DKK, Hastercard - on-us, 5383, Mithdrawal., , 57.048, 9.919, 2624886, Aalborg, 274.704, 594, 66, 0.000, 52, 804, Clouds, Overcast clouds
17. February, 23. Thursday, 19. Active, 30. NCR, Margarday, 19. Active, 30. NC