



# Data Ingestion from the RDS to HDFS using Sqoop

## Connecting to msql-connector -

- wget https://de-mysgl-connector.s3.amazonaws.com/mysgl-connector-java-8.0.25.tar.gz
- tar -xvf mysgl-connector-java-8.0.25.tar.gz
- cd mysql-connector-java-8.0.25
- sudo cp mysql-connector-java-8.0.25.jar /usr/lib/sqoop/lib/

# 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/nord\_bank\_atm --m 1

```
[hadoop@ip-172-31-54-94 mysql-connector-java-8.0.25]$ sqoop import --connect jdk
c:mysql://upgraddetest.cyaielc9bmnf.us-east-1.rds.amazonaws.com/testdatabase -
sername student --password STUDENT123 --table SRC ATM TRANS --target-dir /user/
oot/nord bank atm --m 1
                Total megabyte-milliseconds taken by all map tasks=40648704
        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)=182
                CPU time spent (ms) = 25430
                Physical memory (bytes) snapshot=620044288
Virtual memory (bytes) snapshot=3303927808
                Total committed heap usage (bytes) = 518520832
        File Input Format Counters
                Bytes Read=0
        File Output Format Counters
                Bytes Written=531214815
23/06/18 13:57:47 INFO mapreduce.ImportJobBase: Transferred 506.6059 MB in 43.16
6 seconds (11.7374 MB/sec)
23/06/18 13:57:47 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.
```

#### **Explanation-**

- Using the above sqoop command we can confirm that a total of 2468572 records were created.
- For connection we are using the jdbc connection, username, password and the table provided to us.
- For this task we are using only 1 mapper to move data to user/root/nord\_bank\_atm





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

- hadoop fs -ls /user/root/nord\_bank\_atm
- hadoop fs -cp /user/root/nord\_bank\_atm/part-m-00000 /user/livy/

### **Explanation** -

- We can confirm from the first command that a part file was created
- Using the 2<sup>nd</sup> command we are moving the data to /livy, so spark can access it

# Screenshot of the imported data:

```
tt (ALM)

(1. Sept. 1. Sept. 1
```