



Data Ingestion from the RDS to HDFS using Sqoop

Steps followed:

- 1. SSH into EMR primary node
- 2. Install Mysql connector using following commands
 - a. wgethttps://de-mysql-connector.s3.amazonaws.com/mysql-connector-java-8.0.25.tar.gz
 - b. tar -xvf mysql-connector-java-8.0.25.tar.gz
 - c. cd mysql-connector-java-8.0.25
 - d. sudo cp mysql-connector-java-8.0.25.jar /usr/lib/sqoop/lib/
- 3. Data import from RDS to HDFS using following sqoop import command

```
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/SRC_ATM_TRANS \

-m 1





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```
23/12/88 87:18:58 INFO mapreduce.Job: map 6N reduce 6N
23/12/88 87:18:58 INFO mapreduce.Job: map 180% reduce 6N
23/12/88 87:18:58 INFO mapreduce.Job: map 180% reduce 6N
23/12/88 87:18:57 INFO mapreduce.Job: Job Job Jr8586885712_8001 completed successfully
23/12/88 87:18:57 INFO mapreduce.Job: Counters: 38
File State of Proceedings of
```

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

hadoop fs -ls /user/root/SRC_ATM_TRANS





Command used to verify imported rows count

hadoop fs -ls /user/root/SRC_ATM_TRANS/part-m-00000 | wc -l

```
[[hadoop@ip-10-0-12-204 ~]$ hadoop fs -ls /user/root/SRC_ATM_TRANS
Found 2 items
-rw-r--r- 1 root hadoop 0 2023-12-03 07:14 /user/root/SRC_ATM_TRANS/_SUCCESS
-rw-r--r- 1 root hadoop 531214815 2023-12-03 07:14 /user/root/SRC_ATM_TRANS/part-m-00000
[[hadoop@ip-10-0-12-204 ~]$ hadoop fs -cat /user/root/SRC_ATM_TRANS/part-m-00000 | wc -l
2468572
[hadoop@ip-10-0-12-204 ~]$ ■
```