



## 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/ETL_Project \
-m 1
```

The below screenshot shows that the data has been imported and the number of records imported is also visible

```
[root@ip-172-31-40-100 ~] # 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/ETL_Project \
> -m 1
```

```
File System Counters
               FILE: Number of bytes read=0
               FILE: Number of bytes written=189005
               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
               Launched map tasks=1
               Other local map tasks=1
               Total time spent by all maps in occupied slots (ms)=1264032
               Total time spent by all reduces in occupied slots (ms)=0
               Total time spent by all map tasks (ms)=26334
               Total vcore-milliseconds taken by all map tasks=26334
               Total megabyte-milliseconds taken by all map tasks=40449024
      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)=305
               CPU time spent (ms)=28550
               Physical memory (bytes) snapshot=622682112
               Virtual memory (bytes) snapshot=3291181056
Total committed heap usage (bytes)=505413632
       File Input Format Counters
              Bytes Read=0
               Bytes Written=531214815
2/05/26 18:11:56 INFO mapreduce.ImportJobBase: Transferred 506.6059 MB in 48.801 seconds (10.381 MB/sec)
2/05/26 18:11:56 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.
```





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

hadoop fs -ls /user/root/ETL\_Project/

The below screenshot shows the files imported, one is success file for MapReduce job and another is the file containing data

## Screenshot of the imported data:

The below validation is done to check whether the record count is shown is valid Command Used: hadoop fs – cat /user/root/ETL\_Project/part-m-00000 | wc -l

```
[root@ip-172-31-40-100 ~]# hadoop fs -cat /user/root/ETL_Project/part-m-00000 | wc -1 2468572 [root@ip-172-31-40-100 ~]#
```

When the file is opened using cat command data and head condition data is present as below

Command Used: hadoop fs - cat /user/root/ETL\_Project/part-m-00000 | head