



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 \
- --username student \
- --password STUDENT123 \
- --table SRC_ATM_TRANS \
- --target-dir /user/root/SRC_ATM_TRANS \
- --null-string '\N' \
- --null-non-string '\N' \
- --num-mappers 1\
- --fetch-size 10000

```
## Accession | Principle | Pri
```

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/SRC_ATM_TRANS hdfs dfs -mv /user/root/SRC_ATM_TRANS/part-m-00000 /user/root/SRC_ATM_TRANS/src_atm_trans.csv

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' since only one mapper was used in the import command, as a result the data is in a single file

Command used to see the first 10 rows of the imported data

hadoop fs -cat /user/root/SRC_ATM_TRANS/src_atm_trans.csv | head -1

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[hadoop@ip-172-31-63-108 -]$ hadoop fs -cat /user/root/SRC_ATM_TRANS/src_atm_trans.csv | head -n 10 2017, January, 1, Sunday, 0, Active, 1, NCR, NRF, Hástved, Farimagovej, 6, 4700, 55.233, 11.763, DKK, MasterCard, 5643, Withdrawal,,,,55.230, 11.761, 2616038, Naestved, 281.150, 1014, 87,7,260, 0.215, 92,5 00, Rain, light rain 2017, January, 1, Sunday, 0, Inactive, 2, NCR, Vejgaard, Hadsundvej, 20, 9000, 57.043, 9.950, DKK, MasterCard, 1764, Withdrawal,,,,57.048, 9.935, 2616235, NRFA, resundby, 280.640, 1020, 93, 9, 250, 0.590, 92, 500 Rain, light rain 2017, January, 1, Sunday, 0, Inactive, 2, NCR, Vejgaard, Hadsundvej, 20, 9000, 57.043, 9.950, DKK, VISA, 1891, Withdrawal,,,,56.139, 9.158, 2616235, NRFA, resundby, 280.640, 1020, 93, 9, 250, 0.590, 92, 500 Rain, light rain 2017, January, 1, Sunday, 0, Inactive, 3, NCR, Ikast, RRFAYdhusstrÄfÅidet, 12, 7430, 56.139, 9.154, DKK, VISA, 1891, Withdrawal,,,,56.139, 9.158, 2619426, Ikast, 281.150, 1011, 100, 6, 240, 0.000, 75.300, DT 1221e, light intensity drizzle 2017, January, 1, Sunday, 0, Active, 4, NCR, Svogerslev, BrAfA, nsager, 1, 4000, 55.634, 12.018, DKK, MasterCard, 5153, Withdrawal,,,,55.642, 12.080, 2614481, Roskilde, 280.610, 1014, 87, 7, 260, 0.000, 88, 0.174, January, 1, Sunday, 0, Active, 5, NCR, Nibe, Torvet, 1, 9240, 56.983, 9.639, DKK, MasterCard, 816, NiberCard, 817, NiberCard
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