SPARNOD BANK ETL PROJECT

Sqoop Data Ingestion

Submitted By:

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Data Ingestion from the RDS to HDFS using Sqoop

1. Installed mysql connector on the cluster using below command to run sqoop. sudo -i

wget https://de-mysql-connector.java-8.0.25.tar.gz tar -xvf mysql-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/

2. Run the below sqoop command to ingest data from SRC_ATM_TRANS table in testdatabase 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/hadoop/ETL/sparnod \
-m 1
```

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3. Run below command to check the files on HDFS after completion of import hadoop fs -ls /user/hadoop/ETL/sparnod

4. Run below command to check the number of records exported from RDS to HDFS file.

hadoop fs -cat /user/hadoop/ETL/sparnod/part-m-00000| wc -l

```
[hadoop@ip-172-31-7-130 ~]$ hadoop fs -cat /user/hadoop/ETL/sparnod/part-m-00000| wc -l 2468572 [hadoop@ip-172-31-7-130 ~]$ [
```

Above screenshot shows **2468572** rows imported.

5. Screenshot of imported data.

[hadoop@ig-172-31-7-130 -]\$ hadoop fs -cat /user/hadoop/ETL/sparnod/part-m-00000] head -10
2017, January, 1, Sunday, 0, Active, 1, NCR, NAfA; stved, Farimagsvej, 8, 4700, 55. 233, 11. 763, DKK, MasterCard, 5643, Withdrawal, ,, 55. 230, 11. 761, 2616038, Naestved, 281. 150, 1014, 87. 7, 260, 0.215, 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, ,, 57. 048, 9. 935, 2616235, NAfA; rresundby, 280. 640, 1020, 93, 9, 250, 0. 590, 92, 500, Rain, light rain
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2017, January, 1, Sunday, 0, Active, 5, NCR, Nibe, Torvet, 1, 9240, 56. 993, 9. 639, DKK, MasterCard, 3269, Withdrawal, ,, 55. 642, 12. 080, 2614481, Roskilde, 280. 640, 1020, 93, 9, 250, 0. 590, 92, 500, Rain, light rain
2017, January, 1, Sunday, 0, Active, 5, NCR, Nibe, Torvet, 1, 9240, 56. 993, 9. 639, DKK, MasterCard, 3269, Withdrawal, ,, 55. 566, 9. 753, 2621951, Fredericia, 281. 150, 1014, 93, 7, 230, 0. 290, 92, 500, Rain, light rain
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2017, January, 1, Sunday, 0, Active, 9, Diebold Nixdorf, Hadsund, Storegade, 12, 9560, 56. 716, 10