## 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/spar\_node\_bank\_data\
- --delete-target-dir \
- --m 1

#### **Sqoop Import status**

```
[hadoop@ip-172-31-17-138 ~]$ 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/spar_node_bank_data\
> --delete-target-dir \
> --d
```

```
Bytes Written=531214815
23/10/06 19:15:09 INFO mapreduce.ImportJobBase: Transferred 506.6059 MB in 42.6975 seconds (11.865 MB/sec)
23/10/06 19:15:09 INFO mapreduce.ImportJobBase: Retrieved 2468572 records.
```

#### Command used to see the files in directory in HDFS:

hadoop fs -ls /user/root/spar node bank data--delete-target-dir

```
[hadoop@ip-172-31-17-138 ~]$ hadoop fs -ls /user/root/spar_node_bank_data--delete-target-dir
Found 2 items
-rw-r--r- 1 hadoop hadoop 0 2023-10-06 19:15 /user/root/spar_node_bank_data--delete-target-dir/_SUCCESS
-rw-r--r- 1 hadoop hadoop 531214815 2023-10-06 19:15 /user/root/spar_node_bank_data--delete-target-dir/part-m-00000
```

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

hadoop fs -cat /user/root/spar node bank data--delete-target-dir/part-m-00000 | head -n 5

#### Sample data - first 5 rows

```
[hadoop@ip-172-31-17-138 ~]$ hadoop fs -cat /user/root/spar_node_bank_data--delete-target-dir/part-m-00000 | head -n 5
2017, January, 1, Sunday, 0, Active, 1, NCR, NAjā; 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, MasterCard, 1764, Withdrawal, ,, 57.048, 9.935, 2616235, NĀjā, rresundby, 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, ,, 57.048, 9.935, 2616235, NĀjā, rresundby, 280.640, 1020, 9
3, 9, 250, 0.590, 92, 500, Rain, light rain
2017, January, 1, Sunday, 0, Inactive, 3, NCR, Ikast, Rājā¥dhusstrājā; det, 12, 7430, 56.139, 9.154, DKK, VISA, 4166, Withdrawal, ,, 56.139, 9.158, 2619426, Ikast, 281.150, 1011, 100, 6, 240, 0.000, 75, 300, Drizzle, light intensity drizzle
2017, January, 1, Sunday, 0, Active, 4, NCR, Svogerslev, Brājā, nsager, 1, 4000, 55.634, 12.018, DKK, MasterCard, 5153, Withdrawal, ,, 55.642, 12.080, 2614481, Roskilde, 280.610, 101
4, 87, 7, 260, 0.000, 88, 701, Mist, mist
```

# Command to see count of total records loaded in HDFS

hadoop fs -cat /user/root/spar\_node\_bank\_data--delete-target-dir/part-m-00000 | wc -l

[hadoop@ip-172-31-17-138 ~]\$ hadoop fs -cat /user/root/spar\_node\_bank\_data--delete-target-dir/part-m-00000 | wc -1 2468572