

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://upgradtest.cyaielc9bmnf.us-east-1.rds.amazonaws.com/testdatabase \
--table SRC_ATM_TRANS \
--username student --password STUDENT123 \
--target-dir /user/root/SRC_ATM_TRANS_ETL \
-m 1
```

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

```
hadoop fs -ls /user/root/SRC_ATM_TRANS_ETL
```

```
2023-01-30 10:20:17 INFO mapreduce.jobstatusbase: Retrieved 210092 records.
[root@ip-172-31-30-160 ~]# hadoop fs -ls
Found 1 items
drwxr-xr-x  - root hdfsadmin  group  0 2023-01-30 10:20 SRC_ATM_TRANS_ETL
[root@ip-172-31-30-160 ~]# hadoop fs -ls /user/root/SRC_ATM_TRANS_ETL
Found 2 items
-rw-r--r--  1 root hdfsadmin  group  0 2023-01-30 10:20 /user/root/SRC_ATM_TRANS_ETL/_SUCCESS
-rw-r--r--  1 root hdfsadmin  group 531214815 2023-01-30 10:20 /user/root/SRC_ATM_TRANS_ETL/part-m-00000
[root@ip-172-31-30-160 ~]#
```

Screenshot of the imported data:

```
hadoop fs -ls /user/root/SRC_ATM_TRANS_ETL/part-m-00000
```

```
2017,December,31,Sunday,23,Active,20,NCR,Bispensgade,Bispensgade,35,9800,57.453,9.996,DKK,Mastercard - on-us,2830,Withdrawal,,,57.464,9.982,2620214,Hjorring,278.589,998
,99,8,210,0.000,44,802,Clouds,scattered clouds
2017,December,31,Sunday,23,Active,28,NCR,LÃfÃ,gstÃfÃ,r,ÃfEsterbrogade,8,9670,56.967,9.253,DKK,VISA,812,Withdrawal,,,56.962,9.258,2617467,Logstor,277.589,999,87,6,208,0
.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,28,NCR,LÃfÃ,gstÃfÃ,r,ÃfEsterbrogade,8,9670,56.967,9.253,DKK,VISA,5568,Withdrawal,,,56.962,9.258,2617467,Logstor,277.589,999,87,6,208,0
.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,49,NCR,Bindslev,NÃfÃ,rrebro,18,9881,57.541,10.200,DKK,MasterCard,5403,Withdrawal,,,57.471,10.203,2614010,Sindal,277.589,999,87,6,208,0
.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,49,NCR,Bindslev,NÃfÃ,rrebro,18,9881,57.541,10.200,DKK,MasterCard,312,Withdrawal,,,57.471,10.203,2614010,Sindal,277.589,999,87,6,208,0
.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,56,Diebold Nixdorf,KÃfÃ,ge,SÃfÃ,ndre Alle,1,4600,55.454,12.181,DKK,Visa Dankort - on-us,5351,Withdrawal,,,55.588,12.251,2621218,Greve
Kommune,280.150,992,100,3,190,0.000,90,804,Clouds,overcast clouds
2017,December,31,Sunday,23,Active,103,Diebold Nixdorf,Vejgaard,Hadsundvej,20,9000,57.043,9.950,DKK,Mastercard - on-us,5821,Withdrawal,,,57.048,9.935,2616235,NÃfÃ,rresun
dby,277.589,999,87,6,208,0.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,1,NCR,NÃfÃ,stved,Farimagvej,8,4700,55.233,11.763,DKK,Visa Dankort,3049,Withdrawal,,,55.230,11.761,2616038,Naestved,280.150,991,100,5,
210,1.175,92,500,Rain,light rain
2017,December,31,Sunday,23,Active,85,Diebold Nixdorf,KÃfÃ,benhavn,Regnbuepladsen,5,1550,55.676,12.571,DKK,MasterCard,7785,Withdrawal,,,55.676,12.566,2618425,Copenhagen,
280.150,992,100,3,190,0.000,90,804,Clouds,overcast clouds
2017,December,31,Sunday,23,Active,15,NCR,Vestre,Kastetvej,36,9000,57.053,9.905,DKK,Mastercard - on-us,9777,Withdrawal,,,57.048,9.919,2624886,Aalborg,277.589,999,87,6,20
8,0.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,15,NCR,Vestre,Kastetvej,36,9000,57.053,9.905,DKK,MasterCard,5531,Withdrawal,,,57.048,9.919,2624886,Aalborg,277.589,999,87,6,208,0.000,
76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,34,NCR,Skipperen,Vestre Alle,2,9000,57.034,9.908,DKK,MasterCard,8323,Withdrawal,,,57.048,9.919,2624886,Aalborg,277.589,999,87,6,208,0.0
00,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,20,NCR,Bispensgade,Bispensgade,35,9800,57.453,9.996,DKK,MasterCard,5023,Withdrawal,,,57.464,9.982,2620214,Hjorring,278.589,998,99,8,21
0,0.000,44,802,Clouds,scattered clouds
2017,December,31,Sunday,23,Active,34,NCR,Skipperen,Vestre Alle,2,9000,57.034,9.908,DKK,MasterCard,147,Withdrawal,,,57.048,9.919,2624886,Aalborg,277.589,999,87,6,208,0.0
00,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,70,Diebold Nixdorf,Holstebro,Hostrupsvej,6,7500,56.373,8.625,DKK,MasterCard,5666,Withdrawal,,,56.360,8.616,2620046,Holstebro,280.150,9
88,93,4,210,0.000,92,804,Clouds,overcast clouds
2017,December,31,Sunday,23,Active,49,NCR,Bindslev,NÃfÃ,rrebro,18,9881,57.541,10.200,DKK,MasterCard,7886,Withdrawal,,,57.471,10.203,2614010,Sindal,277.589,999,87,6,208,0
.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Inactive,12,NCR,ÃfEsterÃfÃV Dues,ÃfEsterÃfÃV,12,9000,57.049,9.922,DKK,Mastercard - on-us,2436,Withdrawal,,,57.048,9.919,2624886,Aalborg,27
7.589,999,87,6,208,0.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Inactive,12,NCR,ÃfEsterÃfÃV Dues,ÃfEsterÃfÃV,12,9000,57.049,9.922,DKK,Mastercard - on-us,8519,Withdrawal,,,57.048,9.919,2624886,Aalborg,27
7.589,999,87,6,208,0.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,10,NCR,NÃfÃ,rresundby,Torvet,6,9400,57.059,9.922,DKK,Mastercard - on-us,5286,Withdrawal,,,57.048,9.919,2624886,Aalborg,277.589,999,87,
6,208,0.000,76,803,Clouds,broken clouds
2017,December,31,Sunday,23,Active,37,NCR,Silkeborg,Borgergade,36,8600,56.179,9.552,DKK,VISA,876,Withdrawal,,,56.170,9.545,2614030,Silkeborg,279.800,988,93,4,210,0.000,8
8,804,Clouds,overcast clouds
[root@ip-172-31-30-160 ~]#
```