Data Ingestion from the RDS to HDFS using Sqoop

Sqoop Import command used for importing table from RDS to HDFS:

<Sqoop Import Command>

sqoop import
--connect jdbc:mysql://upgraddetest.cyaielc9bmnf.us-east-1.rds.amazonaws.com/testdatabase
--table SRC_ATM_TRANS
--username student
--password STUDENT123
--null-string '\\N' --null-non-string '\\N'
--target-dir /user/root/SRC_ATM_TRANS_to_HDFS
-m 1

<Comments>
Here the above sqoop command used for ingesting data from RDS to HDFS .
connecting to mysql database using RDS connection and using credentials
To override the --null-string with '\\N' and --null-non-string with '\\N' is used
Target dir is given to store data
Required only one mapper to run import table

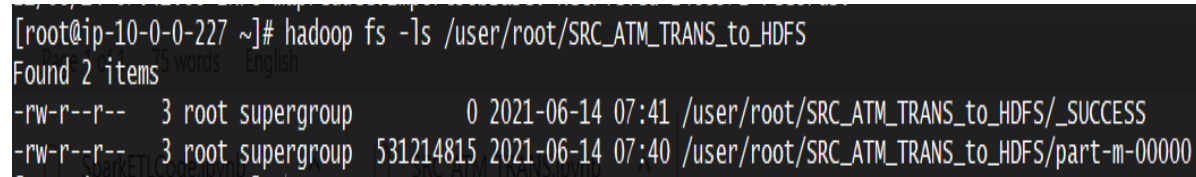**Command used to see the list of imported data in HDFS:**

<Command used>
hadoop fs -ls /user/root/SRC_ATM_TRANS_to_HDFS

<Comments>
Above command is used for getting the list of data stored in the given directory.

Screenshot of the imported data:

<Screenshot of the imported data>

```
[root@ip-10-0-0-227 ~]# hadoop fs -ls /user/root/SRC_ATM_TRANS_to_HDFS
Found 2 items
-rw-r--r--   3 root supergroup          0 2021-06-14 07:41 /user/root/SRC_ATM_TRANS_to_HDFS/_SUCCESS
-rw-r--r--   3 root supergroup  531214815 2021-06-14 07:40 /user/root/SRC_ATM_TRANS_to_HDFS/part-m-00000
```

```
2017,January,7,Saturday,11,Inactive,3,NCR,Ikast,RÅƒÅ¥dhusstrÅƒÅ¦det,12,7430,56.139,9.154,DKK,Visa Dankort - on-us,7076,Withdrawal,,,56.139,9.158,2619426,Ikast,278.610,1021,100,4,270,0.000,7
5,803,Clouds,broken clouds
2017,January,7,Saturday,11,Active,58,NCR,StÅƒÅ vring,Baunebakken,4,9530,56.890,9.836,DKK,Visa Dankort - on-us,7128,Withdrawal,,,56.885,9.838,2612500,Stovring,278.472,1030,90,5,314,0.000,68,
803,Clouds,broken clouds
2017,January,7,Saturday,11,Inactive,2,NCR,Vejgaard,Hadsundvej,20,9000,57.043,9.950,DKK,HÅƒÅ¦vekort - on-us,4413,Withdrawal,,,57.048,9.935,2616235,NÅƒÅ rresundby,278.472,1030,90,5,314,0.000,
68,803,Clouds,broken clouds
2017,January,7,Saturday,11,Active,68,NCR,Drive Up  Vejle,Havneparken,4,7100,55.707,9.541,DKK,Visa Dankort,680,Withdrawal,,,55.709,9.536,2610613,Vejle,277.400,1022,100,3,270,0.000,80,310,Dri
zzle,light intensity drizzle rain
2017,January,7,Saturday,11,Active,36,NCR,HjÅƒÅ rring,AƒÅ¦stergade,8,9800,57.459,9.988,DKK,Dankort - on-us,162,Withdrawal,,,57.464,9.982,2620214,Hjorring,279.597,1030,94,6,10,0.000,36,802,Cl
ouds,scattered clouds
2017,January,7,Saturday,11,Active,11,NCR,Sauersvej,Fridtjof Nansens Vej,2,9210,57.023,9.940,DKK,VISA,8768,Withdrawal,,,57.048,9.935,2616235,NÅƒÅ rresundby,278.472,1030,90,5,314,0.000,68,803
,Clouds,broken clouds
2017,January,7,Saturday,11,Active,33,NCR,Vadum,Ellehammersvej,43,9430,57.118,9.861,DKK,Visa Dankort,3356,Withdrawal,,,57.118,9.857,2610823,Vadum,278.472,1030,90,5,314,0.000,68,803,Clouds,br
oken clouds
2017,January,7,Saturday,11,Active,41,Diebold Nixdorf,Skagen,Sct. Laurentiivej,36,9990,57.723,10.590,DKK,Mastercard - on-us,473,Withdrawal,,,57.721,10.584,2613939,Skagen,273.720,1018,95,2,12
0,0.000,90,741,Fog,fog
2017,January,7,Saturday,11,Active,32,NCR,SÅƒÅ¦dding,Tarphagevej,59,6710,55.498,8.408,DKK,Visa Dankort - on-us,2301,Withdrawal,,,55.467,8.450,2622447,Esbjerg,278.380,1023,100,3,290,0.000,68,
310,Drizzle,light intensity drizzle rain
2017,January,7,Saturday,11,Active,65,NCR,Storvorde,VandvÅƒÅ rksvej,2,9280,57.005,10.101,DKK,Visa Dankort - on-us,83,Withdrawal,,,57.004,10.101,2612301,Storvorde,278.472,1030,90,5,314,0.000,
68,803,Clouds,broken clouds
2017,January,7,Saturday,11,Active,39,NCR,Svenstrup,GodthÅƒÅ¥bsvej,14,9230,56.973,9.851,DKK,Dankort - on-us,3514,Withdrawal,,,56.972,9.848,2612021,Svenstrup,278.472,1030,90,5,314,0.000,68,80
3,Clouds,broken clouds
2017,January,7,Saturday,11,Active,47,NCR,Frederiksberg,Gammel Kongevej,157,1850,55.677,12.537,DKK,MasterCard,7318,Withdrawal,,,55.679,12.535,2621942,Frederiksberg,272.790,1022,97,9,240,0.00
0,75,300,Drizzle,light intensity drizzle
2017,January,7,Saturday,11,Inactive,102,NCR,Aalborg Storcenter  Afd,Hobrovej,452,9200,57.005,9.876,DKK,Visa Dankort - on-us,6051,Withdrawal,,,56.972,9.848,2612021,Svenstrup,278.472,1030,90,
5,314,0.000,68,803,Clouds,broken clouds
2017,January,7,Saturday,11,Inactive,81,NCR,Spar KÅƒÅ bmand TornhÅƒÅ j,TornhÅƒÅ jvej,4,9220,57.026,10.002,DKK,MasterCard,8300,Withdrawal,,,56.994,9.991,2621449,Gistrup,278.472,1030,90,5,314,
0.000,68,803,Clouds,broken clouds
2017,January,7,Saturday,11,Inactive,49,NCR,Bindslev,NÅƒÅ rrebro,18,9881,57.541,10.200,DKK,MasterCard,3345,Withdrawal,,,57.471,10.203,2614010,Sindal,278.472,1030,90,5,314,0.000,68,803,Clouds,b
roken clouds
2017,January,7,Saturday,11,Active,28,NCR,LÅƒÅ gstÅƒÅ r,AƒÅ¦sterbrogade,8,9670,56.967,9.253,DKK,Visa Dankort - on-us,1826,Withdrawal,,,56.962,9.258,2617467,Logstor,278.472,1030,90,5,314,0.00
0,68,803,Clouds,broken clouds
2017,January,7,Saturday,11,Active,23,Diebold Nixdorf,Vodskov,Vodskovvej,27,9310,57.104,10.027,DKK,VISA,9096,Withdrawal,,,57.109,10.022,2610095,Vodskov,278.472,1030,90,5,314,0.000,68,803,Clo
uds,broken clouds
2017,January,7,Saturday,11,Active,20,NCR,Bispensgade,Bispensgade,35,9800,57.453,9.996,DKK,Visa Dankort - on-us,2,Withdrawal,,,57.464,9.982,2620214,Hjorring,279.597,1030,94,6,10,0.000,36,802
,Clouds,scattered clouds
2017,January,7,Saturday,11,Inactive,12,NCR,AƒÅ¦esterAƒÅ¥ Duus,AƒÅ¦esterAƒÅ¥,12,9000,57.049,9.922,DKK,Visa Dankort - on-us,2722,Withdrawal,,,57.048,9.919,2624886,Aalborg,278.472,1030,90,5,314
,0.000,68,803,Clouds,broken clouds
2017,January,7,Saturday,11,Active,36,NCR,HjÅƒÅ rring,AƒÅ¦stergade,8,9800,57.459,9.988,DKK,Visa Dankort - on-us,3605,Withdrawal,,,57.464,9.982,2620214,Hjorring,279.597,1030,94,6,10,0.000,36,
802,Clouds,scattered clouds
2017,January,7,Saturday,11,Active,53,NCR,SÅƒÅ by Syd,Trafikcenter SÅƒÅ by Syd,1,9300,57.313,10.450,DKK,MasterCard,9860,Withdrawal,,,57.441,10.537,2621927,Frederikshavn,280.322,1030,97,7,14,
0.000,36,802,Clouds,scattered clouds
2017,January,7,Saturday,11,Inactive,50,NCR,Aarhus,SÅƒÅ nder Alle,11,8000,56.153,10.206,DKK,Visa Dankort,8483,Withdrawal,,,56.157,10.211,2624652,Arhus,277.820,1021,100,3,240,0.000,90,804,Clo
uds,overcast clouds
2017,January,7,Saturday,11,Active,71,NCR,AalbÅƒÅ k,Centralvej,5,9982,57.593,10.412,DKK,Visa Dankort - on-us,2836,Withdrawal,,,57.492,10.496,2612274,Strandby,279.597,1030,94,6,10,0.000,36,80
2,Clouds,scattered clouds
2017,January,7,Saturday,11,Active,24,NCR,Hobro,Adelgade,31,9500,56.638,9.794,DKK,Visa Dankort,8730,Withdrawal,,,56.643,9.790,2620167,Hobro,278.472,1030,90,5,314,0.000,68,803,Clouds,broken c
louds
2017,January,7,Saturday,11,Active,31,NCR,Slagelse,Mariendals Alle,29,4200,55.398,11.342,DKK,Visa Dankort,5144,Withdrawal,,,55.403,11.355,2613460,Slagelse,274.190,1022,94,5,240,0.000,92,300,
Drizzle,light intensity drizzle
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<Comments>
Here in above screenshot data that got imported from RDS to HDFS is shown.