Data Ingestion from the RDS to HDFS using Sqoop

Sqoop command used for importing table from RDS to HDFS

Table 1 (member_score)

```
sqoop import \
--connect jdbc:mysql://upgradawsrds1.cyaielc9bmnf.us-east-
1.rds.amazonaws.com/cred_financials_data \
--table member_score \
--username upgraduser --password upgraduser \
--target-dir /user/root/cap_project/member_score \
-m 1
```

Table 2 (card_member)

```
sqoop import \
--connect jdbc:mysql://upgradawsrds1.cyaielc9bmnf.us-east-
1.rds.amazonaws.com/cred_financials_data \
--table card_member \
--username upgraduser --password upgraduser \
--target-dir /user/root/cap_project/card_member \
-m 1
```

<Command to see the list of imported data in HDFS>

Locating the files imported to HDFS in root -

```
[root@ip-10-0-0-6 ~]# hadoop fs -ls cap_project
Found 3 items
-rw-r--r--   3 root supergroup      85082 2020-12-10 16:28 cap_project/card_member
-rw-r--r--   3 root supergroup    4829520 2020-12-06 07:29 cap_project/card_transactions.csv
-rw-r--r--   3 root supergroup      19980 2020-12-10 16:26 cap_project/member_score
[root@ip-10-0-0-6 ~]#
```

Here, we see 2 files namely card_member & member_score along with csv. This confirms RDS tables are imported to HDFS.

Command to see list of imported data-

```
[root@ip-10-0-0-6 ~]# hadoop fs -cat cap_project/card_member
```

```
[root@ip-10-0-0-6 ~]# hadoop fs -cat cap_project/member_score
```

Screenshot of the imported data

Table 1:

```
[root@ip-10-0-0-6 ~]# hadoop fs -cat cap_project/card_member
340028465709212,009250698176266,2012-02-08 06:04:13.0,05/13,United States,Barberton
340054675199675,835873341185231,2017-03-10 09:24:44.0,03/17,United States,Fort Dodge
340082915339645,512969555857346,2014-02-15 06:30:30.0,07/14,United States,Graham
340134186926007,887711945571282,2012-02-05 01:21:58.0,02/13,United States,Dix Hills
340265728490548,680324265406190,2014-03-29 07:49:14.0,11/14,United States,Rancho Cucamonga
340268219434811,929799084911715,2012-07-08 02:46:08.0,08/12,United States,San Francisco
340379737226464,089615510858348,2010-03-10 00:06:42.0,09/10,United States,Clinton
340383645652108,181180599313885,2012-02-24 05:32:44.0,10/16,United States,West New York
340803866934451,417664728506297,2015-05-21 04:30:45.0,08/17,United States,Beaverton
340889618969736,459292914761635,2013-04-23 08:40:11.0,11/15,United States,West Palm Beach
340924125838453,188119365574843,2011-04-12 04:28:47.0,12/13,United States,Scottsbluff
341005627432127,872138964937565,2013-09-08 03:16:50.0,02/17,United States,Chillum
341029651579925,974087224071871,2011-01-14 00:20:25.0,08/12,United States,Valley Station
341311317050937,561687420200207,2014-03-18 06:23:23.0,02/15,United States,Vincennes
341344252914274,695906467918552,2012-03-02 03:21:01.0,03/13,United States,Columbine
341363858179050,009190444424572,2012-02-19 05:16:44.0,04/14,United States,Cheektowaga
341519629171378,533670008048847,2013-05-13 07:59:32.0,01/15,United States,Centennial
341641153427489,230523184584316,2013-03-25 08:51:18.0,11/15,United States,Colchester
341719092861087,304847505155781,2015-12-06 08:06:35.0,11/17,United States,Vernon Hills
341722035429601,979218131207765,2015-12-22 10:46:23.0,01/17,United States,Elk Grove Village
341724964458347,210778177559185,2011-02-07 01:43:13.0,03/14,United States,Fond du Lac
341920010925925,185524819205415,2010-11-15 00:57:15.0,10/16,United States,Roosevelt
342016727481601,329679840450294,2015-02-15 06:56:32.0,10/16,United States,Oakdale
342048672911139,409346767454057,2011-03-03 10:41:02.0,08/12,United States,Winter Springs
342106756753728,439669104078192,2013-11-25 02:05:46.0,03/14,United States,Pittsburg
342136378319429,756971727303005,2016-01-09 01:19:50.0,10/17,United States,Superior
342341653931950,569294535026544,2014-09-06 12:16:48.0,10/14,United States,Woodstock
342400733369183,557238536043272,2016-03-01 07:30:53.0,08/17,United States,Derry
342409040326783,093291208532654,2015-05-02 10:06:45.0,04/16,United States,Key West
342541202178377,228647326620185,2013-12-28 05:34:26.0,04/15,United States,Taylors
342659393657862,075642075917789,2016-02-10 07:27:55.0,07/17,United States,Norman
```

```
6540468186896539,141321536961227,2018-01-19 07:18:00.0,01/18,United States,East Rancho Dominguez
6543031141758272,870153152781538,2017-07-19 06:36:40.0,09/17,United States,Clarksdale
6544649161377464,649878246712070,2011-10-04 09:41:07.0,09/16,United States,Colleyville
6544876671165176,269098610760255,2014-08-11 04:53:07.0,09/14,United States,Fairbanks
6545226290425115,603559973068098,2013-05-18 11:24:59.0,06/17,United States,Englewood
6545952322379984,600766853828700,2014-08-29 07:43:44.0,11/17,United States,Dickinson
6547766151831545,261887615693559,2011-12-05 09:48:13.0,01/16,United States,Elizabeth City
6548075186419311,172415208711374,2015-09-08 01:42:30.0,03/16,United States,Levittown
6553602843717324,489363495489840,2010-03-24 01:59:05.0,04/13,United States,Amherst
6554318161639326,849379475223004,2013-01-15 05:04:55.0,08/13,United States,Brentwood Estates
6555788669879948,397711136132639,2011-02-24 04:53:28.0,07/14,United States,Buffalo
6555959156547393,936684798954860,2017-04-15 08:44:30.0,10/17,United States,Ashtabula
6557021868031113,895448300173190,2014-05-15 12:49:14.0,06/14,United States,Homestead
6559471895999451,881925677205464,2017-09-27 09:21:18.0,10/17,United States,West Linn
6562510549485881,659982919406634,2015-07-04 06:39:15.0,11/16,United States,Mount Vernon
6566718331696237,335526117403543,2013-09-19 10:34:17.0,08/14,United States,Sand Springs
6568438963325843,183038102441540,2017-07-06 05:25:55.0,07/17,United States,North Las Vegas
6570061543816002,722794052951029,2017-01-10 03:01:36.0,02/17,United States,Sedalia
6573615549671948,985619195348046,2015-09-29 08:21:37.0,12/16,United States,Belleville
6574255180086418,891702243060747,2012-07-19 07:47:35.0,07/15,United States,Selma
6574656060675651,555127039477442,2010-06-02 00:11:01.0,11/10,United States,Coral Terrace
6577397607792660,479331531880555,2013-06-13 00:02:59.0,02/16,United States,Norco
6578328793401039,149907932138330,2016-03-21 02:51:11.0,11/16,United States,Wasco
6580194731591489,218337397923739,2018-01-09 00:32:14.0,01/18,United States,Oxford
6582135370631324,389050970153068,2016-07-17 10:26:54.0,08/16,United States,Roy
6582950745622331,185289866247329,2012-04-17 03:37:04.0,03/13,United States,Hutchinson
6583283909793527,398607904778893,2015-08-27 03:19:32.0,01/17,United States,Galesburg
6585229076432173,887283455220105,2015-03-06 00:53:06.0,05/16,United States,Security-Widefield
6587114664896609,623414156260264,2015-10-05 06:45:35.0,03/17,United States,Hobart
6588637504808417,678537053778506,2012-05-30 04:37:45.0,04/14,United States,Concord
6589539191695876,832393339334706,2014-01-26 11:59:35.0,09/15,United States,Roseville
6589855658684769,193386908982058,2010-02-07 09:52:17.0,11/15,United States,Westfield
6589894320960430,276119478113309,2011-08-08 02:25:29.0,11/15,United States,Blaine
6590907016354002,849289511810887,2016-10-28 07:32:23.0,07/17,United States,Reading
6591175617713393,135615957283320,2015-05-16 03:21:15.0,08/16,United States,Arvin
6592184145413632,714853788321318,2010-03-12 08:11:17.0,08/16,United States,Mehlville
6594248319343442,846162645575666,2016-02-15 02:32:58.0,12/16,United States,Lyndhurst
6595638658736751,377918213614639,2015-08-13 10:58:24.0,09/17,United States,Mahwah
6595814135833988,236864426408837,2011-02-18 06:45:46.0,06/14,United States,Johnston
6595928469079750,422173403853722,2012-02-10 02:19:20.0,02/14,United States,Raleigh
6597703848279563,657991752750272,2017-02-16 07:45:34.0,03/17,United States,Pinewood
6598830758632447,660350842993890,2013-07-26 02:22:17.0,12/16,United States,Tampa
6599900931314251,928036864799687,2017-09-09 03:31:54.0,10/17,United States,Loves Park
[root@ip-10-0-0-6 ~]#
```

Table 2:

```
[root@ip-10-0-0-6 ~]# hadoop fs -cat cap_project/member_score
000037495066290,339
000117826301530,289
001147922084344,393
001314074991813,225
001739553947511,642
003761426295463,413
004494068832701,217
006836124210484,504
006991872634058,697
007955566230397,372
008732267588672,213
008765307152821,399
009136568025042,308
009190444424572,559
009250698176266,233
009873334520465,298
011716573646690,249
011877954983420,497
012390918683920,407
012731668664932,612
012871894714576,689
015233737327750,244
015509173543086,176
015582765997171,345
015777120121252,464
019834203768714,670
019999364464243,604
023329987813357,268
028379321561729,507
028632455787521,636
030262674475086,425
034436901002830,464
035217612427824,587
036571958569825,312
037011200807810,296
037702394018754,482
037796181638648,555
039274695228076,270
039440103344381,615
040322892171177,508
042080262997009,351
043087872710430,622
```