

-m 1



## **Data Ingestion from the RDS to HDFS using Sqoop**

- 1. Sqoop command used for importing table from RDS to HDFS
- Run Sqoop command to import "member\_score" table from RDS to HDFS. sqoop import --connect jdbc:mysql://upgradawsrds1.cyaielc9bmnf.us-east-1.rds.amazonaws.com/cred\_financials\_data \ --username upgraduser \ --password upgraduser \ --table member\_score \ --null-string 'NA' \ --null-non-string '\N' \ --delete-target-dir \ --target-dir '/ccfd\_capstone\_project/member\_score' \

• Run Sqoop command to import "card\_member" table from RDS to HDFS.

```
sqoop import --connect jdbc:mysql://upgradawsrds1.cyaielc9bmnf.us-east-
1.rds.amazonaws.com/cred_financials_data \
--username upgraduser \
--password upgraduser \
--table card_member \
--null-string 'NA' \
--null-non-string '\\N' \
--delete-target-dir \
--target-dir '/ccfd_capstone_project/card_member' \
-m 1
```

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

Create external table "card\_member\_ext" to hold data from card member table in RDS.

```
CREATE EXTERNAL TABLE IF NOT EXISTS CARD_MEMBER_EXT(`CARD_ID`
STRING,`MEMBER_ID` STRING,`MEMBER_JOINING_DT` TIMESTAMP,`CARD_PURCHASE_DT`
STRING,`COUNTRY` STRING,`CITY` STRING)
ROW FORMAT DELIMITED FIELDS TERMINATED BY ',' LOCATION
'/ccfd_capstone_project/card_member';
```





• Create external table "member\_score\_ext" to hold data from member\_score table in RDS.

```
CREATE EXTERNAL TABLE IF NOT EXISTS MEMBER_SCORE_EXT(

`MEMBER_ID` STRING,

`SCORE` INT)

ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

LOCATION '/ccfd_capstone_project/member_score';
```

• Create "card\_member\_orc" table. For better performance.

```
CREATE TABLE IF NOT EXISTS CARD_MEMBER_ORC(

'CARD_ID' STRING,

'MEMBER_ID' STRING,

'MEMBER_JOINING_DT' TIMESTAMP,

'CARD_PURCHASE_DT' STRING,

'COUNTRY' STRING,

'CITY' STRING)

STORED AS ORC

TBLPROPERTIES ("orc.compress"="SNAPPY");
```

• Create "member\_score\_orc" table. For better performance.

```
CREATE TABLE IF NOT EXISTS MEMBER_SCORE_ORC(
'MEMBER_ID' STRING,
'SCORE' INT) STORED AS ORC
TBLPROPERTIES ("orc.compress"="SNAPPY");
```

• Load data into "card\_member\_orc" table from "card\_member\_ext" table.

```
INSERT OVERWRITE TABLE CARD_MEMBER_ORC

SELECT CARD_ID, MEMBER_ID, MEMBER_JOINING_DT, CARD_PURCHASE_DT, COUNTRY,
CITY FROM CARD MEMBER EXT;
```

• Load data into "member\_score\_orc" table from "member\_score\_ext" table.

```
INSERT OVERWRITE TABLE MEMBER_SCORE_ORC
SELECT MEMBER_ID, SCORE FROM MEMBER_SCORE_EXT;
```

• Verify data in "card\_member\_orc" table.

```
SELECT * FROM CARD_MEMBER_ORC LIMIT 10;
```

• Verify data in "member\_score\_orc" table.

```
SELECT * FROM MEMBER_SCORE_ORC LIMIT 10;
```





## 3. Screenshot of the imported data

• Run Sqoop command to import "member\_score" table from RDS to HDFS.

```
22/05/17 16:19:20 IMPC magnetator.obb: Counters: 30
File System Counters
File: Number of bytes read=0
FILE: Number of bytes read=0
FILE: Number of bytes virtuen:19904
FILE: Number of sead operations=0
FILE: Number of large read operations=0
FILE: Number of large read operations=0
FILE: Number of large read operations=0
HDFS: Number of large read operations=0
HDFS: Number of bytes virtuen:19980
HDFS: Number of large read operations=0
HDFS: Number of large read operations=0
HDFS: Number of large read operations=2
Job Counters
Lounches and particles
Lounches and particles
Lounches and particles
Lounches and particles
Total interpet by all maps in occupied slots (ms)=175344
Total interpet by all reduces in occupied slots (ms)=0
Total time spent by all map tasks (ms)=353
Total voor=milliseconds taken by all map tasks=3633
Total woor=milliseconds taken by all map tasks=3633
Total magnety=milliseconds taken by all map tasks=3639
Map-Deduce Framework
Map-Deduce Framewo
```

• Run Sqoop command to import "card\_member" table from RDS to HDFS.

```
The contribution of the co
```





```
122/15/11 [1/21/25] NETO CONFIGURATION OPERATORISMS AND PROPERTIES. IN PROPERTIES. Law Registered. Journal of the Part of the
```

• Verify data in "card\_member\_orc" table.

```
SELECT * FROM CARD_MEMBER_ORC LIMIT 10;
340028465709212 009250698176266 2012-02-08 06:04:13 340054675199675 835873341185231 2017-03-10 09:24:44 340082915339645 512969555857346 2014-02-15 06:30:30
                                                                                                    Barberton
                                                                                United States
                                                                                                     Fort Dodge
                                                                                United States
340134186926007 887711945571282 2012-02-05 01:21:58
                                                                      02/13
                                                                                United States
                                                                                                    Dix Hills
340265728490548 680324265406190 2014-03-29 07:49:14
                                                                      11/14
                                                                                United States
                                                                                                    Rancho Cucamonga
340268219434811 929799084911715 2012-07-08 02:46:08
                                                                                United States
                                                                                                    San Francisco
340379737226464 089615510858348 2010-03-10 00:06:42 340383645652108 181180599313885 2012-02-24 05:32:44
                                                                                United States
                                                                                                    Clinton
                                                                                United States
                                                                                                    West New York
340803866934451 417664728506297 2015-05-21 04:30:45
340889618969736 459292914761635 2013-04-23 08:40:11
                                                                      11/15
                                                                                United States
                                                                                                    West Palm Beach
```

• Verify data in "member\_score\_orc" table.

```
hive> SELECT * FROM MEMBER_SCORE_ORC LIMIT 10;
OK
000037495066290 339
000117826301530 289
001147922084344 393
001314074991813 225
001739553947511 642
003761426295463 413
004494068832701 217
006836124210484 504
006991872634058 697
007955566230397 372
Time taken: 0.098 seconds, Fetched: 10 row(s)
hive>
```