



## Loading the Lookup Table

## Commands to load the relevant data in the Lookup Table

INSERT OVERWRITE TABLE LOOKUP\_DATA\_HBASE

SELECT RCTO.CARD\_ID, CUO.UCL, CMS.SCORE, RCTO.POSTCODE,

RCTO.TRANSACTION\_DT

FROM RANKED\_CARD\_TRANSACTIONS\_ORC RCTO

JOIN CARD\_UCL\_ORC CUO

ON CUO.CARD\_ID = RCTO.CARD\_ID

JOIN (

SELECT DISTINCT CARD.CARD\_ID, SCORE.SCORE

FROM CARD\_MEMBER\_ORC CARD

JOIN MEMBER\_SCORE\_ORC SCORE

ON CARD.MEMBER\_ID = SCORE.MEMBER\_ID) AS CMS

ON RCTO.CARD\_ID = CMS.CARD\_ID

WHERE RCTO.RANK = 1;

## Command to see the table created and it's content

SELECT COUNT(\*) FROM LOOKUP\_DATA\_HBASE;

COUNT 'LOOKUP DATA HIVE'

SCAN 'LOOKUP\_DATA\_HIVE'

Screenshot of the created table





```
hadoop@ip-172-31-26-104:
                                                                                                                                  ive> INSERT OVERWRITE TABLE LOOKUP_DATA_HBASE
        SELECT RCTO.CARD_ID, CUO.UCL, CMS.SCORE, RCTO.POSTCODE, RCTO.TRANSACTION_DT
        FROM RANKED_CARD_TRANSACTIONS_ORC RCTO
        JOIN CARD_UCL_ORC CUO
        ON CUO.CARD_ID = RCTO.CARD_ID
        SELECT DISTINCT CARD.CARD_ID, SCORE.SCORE
        FROM CARD_MEMBER_ORC CARD
JOIN MEMBER_SCORE_ORC SCORE
     > ON CARD.MEMBER_ID = SCORE.MEMBER_ID) AS CMS
> ON RCTO.CARD_ID = CMS.CARD_ID
> WHERE RCTO.RANK = 1;
No_Stats for ccfd@ranked_card_transactions_orc, Columns: postcode, rank, transaction_dt, card_id_
No Stats for ccfd@card_ucl_orc, Columns: card_id, ucl
No Stats for ccfd@card_member_orc, Columns: card_id, ucl
No Stats for ccfd@card_member_orc, Columns: member_id, card_id
No Stats for ccfd@member_score_orc, Columns: member_id, score
Query ID = hadoop_20230213223039_af64a4db-ea8c-4511-ab38-4044e72b90df
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1676320060972_0009)
                                            STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
                            MODE
 lap 1 ..... container
 Map 2 ..... container
Time taken: 21.429 seconds
hive>
```

Console Screenshot 1: Loading data into Lookup Table

```
₽ hadoop@ip-172-31-26-104:~
                                                                                                                    Time taken: 21.429 seconds
hive> SELECT COUNT(*) FROM LOOKUP_DATA_HBASE;
Query ID = hadoop_20230213223337_191850c0-0c80-4223-9323-2bc4aa6d5e46
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1676320060972_0009)
         VERTICES
                                        STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
                         MODE
Map 1 ..... container
Reducer 2 ..... container
                                    SUCCEEDED
                                    SUCCEEDED
hive> SELECT * FROM LOOKUP DATA HBASE LIMIT 10;
340028465709212 1.6331555548882348E7
                                                                  2018-01-02 03:25:35
340054675199675 1.4156079786189131E7
                                                         50140
                                                                  2018-01-15 19:43:23
340082915339645 1.5285685330791473E7
                                               407
                                                         17844
                                                                  2018-01-26 19:03:47
340134186926007 1.5239767522438556E7
                                                                  2018-01-18 23:12:50
340265728490548 1.608491671255562E7
                                                                  2018-01-21 02:07:35
340268219434811 1.2507323937605347E7
340379737226464 1.4198310998368107E7
                                                                  2018-01-16 04:30:05
                                               229
                                                         26656
                                                                  2018-01-27 00:19:47
340383645652108 1.4091750460468251E7
                                               645
                                                         34734
                                                                  2018-01-29 01:29:12
2018-01-31 04:23:57
340803866934451 1.0843341196185412E7
                                               502
                                                        87525
340889618969736 1.3217942365515321E7
                                                        61341
                                               330
                                                                  2018-01-31 21:57:18
Time t<u>a</u>ken: 0.305 seconds, Fetched: 10 row(s)
```

Console Screenshot 2: Verifying the data





```
at org.jruby.main.main(main.java:188)
log4j:ERROR Either File or DatePattern options are not set f
HBase Shell
Use "help" to get list of supported commands.
Use "exit" to quit this interactive shell.
Version 1.4.13, rUnknown, Wed Jun 8 00:30:30 UTC 2022
hbase(main):001:0> count 'lookup_data_hive'
999 row(s) in 0.4720 seconds
=> 999
hbase(main):002:0>
```

Console Screenshot 3: Verifying the data

♣ hadoop@ip-172-31-26-104:~	- □ X
	079E7
6595928469079750	column=lookup_transaction_family:postcode, timestamp=1676327460635, value=98 349
6595928469079750	<pre>column=lookup_transaction_family:transaction_dt, timestamp=1676327460635, va lue=2018-01-24 12:38:22</pre>
6597703848279563	column=lookup card family:score, timestamp=1676327460635, value=218
6597703848279563	column=lookup_card_family:ucl, timestamp=1676327460635, value=1.471863414949 8457E7
6597703848279563	<pre>column=lookup_transaction_family:postcode, timestamp=1676327460635, value=95 699</pre>
6597703848279563	<pre>column=lookup_transaction_family:transaction_dt, timestamp=1676327460635, va lue=2018-01-27 10:51:49</pre>
6598830758632447	column=lookup card family:score, timestamp=1676327460635, value=293
6598830758632447	column=lookup_card_family:ucl, timestamp=1676327460635, value=1.222794998260 1807E7
6598830758632447	<pre>column=lookup_transaction_family:postcode, timestamp=1676327460635, value=19 421</pre>
6598830758632447	<pre>column=lookup_transaction_family:transaction_dt, timestamp=1676327460635, va lue=2018-01-30 00:18:34</pre>
6599900931314251	column=lookup card family:score, timestamp=1676327460635, value=297
6599900931314251	column=lookup_card_family:ucl, timestamp=1676327460635, value=1.212140857246 4656E7
6599900931314251	<pre>column=lookup_transaction_family:postcode, timestamp=1676327460635, value=97 423</pre>
6599900931314251	<pre>column=lookup_transaction_family:transaction_dt, timestamp=1676327460635, va lue=2018-01-31 11:25:16</pre>
99 row(s) in 2.7220 se	conds
base(main):003:0>	

Console Screenshot 4: Results of Scan 'lookup\_data\_hive'