## Loading the Lookup Table

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

**Note: Map/link table from hive to hbase**

Hive> CREATE TABLE transactions.look\_up\_table\_hbase ( card\_id string, ucl int, postcode string, transaction\_dt string, score int ) STORED BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler' WITH SERDEPROPERTIES ("hbase.columns.mapping" = ":key,cf:ucl,cf:postcode,cf:transaction\_dt,cf:score") TBLPROPERTIES ("hbase.table.name" = "look\_up\_table\_hbase");

Hive> insert into transactions.look\_up\_table\_hbase ( card\_id, ucl, postcode, transaction\_dt, score)

select t1.card\_id, us.ucl, t1.postcode, t1.transaction\_dt, t1.score

from

(SELECT t.card\_id

,t.postcode

,t.transaction\_dt

,t.score

FROM (

SELECT s.member\_id, c.card\_id

,c.postcode

,c.transaction\_dt

,s.score

,ROW\_NUMBER() OVER (

PARTITION BY card\_id ORDER BY unix\_timestamp(transaction\_dt,'dd-MM-yyyy hh:mm:ss') DESC

) AS ROW\_NUMBER

FROM transactions.card\_transactions c

join transactions.member\_score s on c.member\_id=s.member\_id

order by c.card\_id

) t

WHERE t.ROW\_NUMBER <= 1) t1

join (SELECT t.card\_id, cast (avg(t.amount)+3\*STDDEV(t.amount) as int) as ucl

FROM (

SELECT s.member\_id, c.card\_id

,c.postcode

,c.amount

,c.transaction\_dt

,s.score

,ROW\_NUMBER() OVER (

PARTITION BY card\_id ORDER BY unix\_timestamp(transaction\_dt,'dd-MM-yyyy hh:mm:ss') DESC

) AS ROW\_NUMBER

FROM transactions.card\_transactions c

join transactions.member\_score s on c.member\_id=s.member\_id

order by c.card\_id

) t

WHERE t.ROW\_NUMBER <= 10

group by t.card\_id) us on us.card\_id=t1.card\_id;

**<Command to see the table created and it’s content>**

hbase(main):001:0> list

TABLE

look\_up\_table\_hbase

1 row(s) in 0.4160 seconds

hbase(main):005:0> scan 'look\_up\_table\_hbase'

ROW COLUMN+CELL

340028465709212 column=cf:postcode, timestamp=1666615518424, value=24658

340028465709212 column=cf:score, timestamp=1666615518424, value=233

340028465709212 column=cf:transaction\_dt, timestamp=1666615518424, value=02-01-2018 03:25:35

340028465709212 column=cf:ucl, timestamp=1666615518424, value=319613580

340054675199675 column=cf:postcode, timestamp=1666615518424, value=50140

340054675199675 column=cf:score, timestamp=1666615518424, value=631

340054675199675 column=cf:transaction\_dt, timestamp=1666615518424, value=15-01-2018 19:43:23

340054675199675 column=cf:ucl, timestamp=1666615518424, value=14156079

340082915339645 column=cf:postcode, timestamp=1666615518424, value=17844

340082915339645 column=cf:score, timestamp=1666615518424, value=407

340082915339645 column=cf:transaction\_dt, timestamp=1666615518424, value=26-01-2018 19:03:47

**Screenshot of the created table**

