

## Creating Lookup Table

**Purpose of document:** This is a pdf document intent to contain creation of look-up table with columns specified in the problem statement in LogicMid.pdf.

### Command to create the Lookup Table:

#### Create look up table in hbase:

```
echo "create 'look_up_table', 'card_details', 'Member_details', 'Location', 'Rule_params'" | hbase shell -n
```

```
[hadoop@ip-172-31-64-25 ~]$ echo "create 'look_up_table', 'card_details', 'Member_details', 'Location', 'Rule_params'" | hbase shell -n
```

#### Create hive integrated look up table:

```
CREATE EXTERNAL TABLE IF NOT EXISTS look_up_table (
  card_id STRING,
  card_purchase_dt STRING,
  transaction_dt STRING,
  member_id STRING,
  member_joining_dt STRING,
  country STRING,
  city STRING,
  UCL DOUBLE,
  postcode STRING,
  score INT
)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
STORED BY "org.apache.hadoop.hive.hbase.HBaseStorageHandler"
WITH SERDEPROPERTIES ("hbase.columns.mapping" = "card_details:card_purchase_dt,card_details:transaction_dt,Member_details:member_id,Member_details:member_joining_dt,Location:country,Location:city,Rule_params:UCL,Rule_params:postcode,Rule_params:score")
TBLPROPERTIES ("hbase.table.name" = "look_up_table");
```

```
hive> CREATE EXTERNAL TABLE IF NOT EXISTS look_up_table (
>   card_id STRING,
>   card_purchase_dt STRING,
>   transaction_dt STRING,
>   member_id STRING,
>   member_joining_dt STRING,
>   country STRING,
>   city STRING,
>   UCL DOUBLE,
>   postcode STRING,
>   score INT
> )
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> STORED BY "org.apache.hadoop.hive.hbase.HBaseStorageHandler"
> WITH SERDEPROPERTIES ("hbase.columns.mapping" = "card_details:card_purchase_dt,card_details:transaction_dt,Member_details:member_id,Member_details:member_joining_dt,Location:country,Location:city,Rule_params:UCL,Rule_params:postcode,Rule_params:score")
> TBLPROPERTIES ("hbase.table.name" = "look_up_table");
OK
Time taken: 2.453 seconds
hive>
```

Note: Hive integrated look\_up\_table created in hbase

## Command to see the table created:

describe 'look\_up\_table'

## Screenshot of the created table

Screenshot of the table created:

```
hbase(main):001:0> describe 'look_up_table'
Table look_up_table is ENABLED
look up table
COLUMN FAMILIES DESCRIPTION
(NAME => 'Location', BLOOMFILTER => 'ROW', VERSIONS => '1', IN MEMORY => 'false', KEEP DELETED CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0')
(NAME => 'Member_details', BLOOMFILTER => 'ROW', VERSIONS => '1', IN MEMORY => 'false', KEEP DELETED CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0')
(NAME => 'Rule_params', BLOOMFILTER => 'ROW', VERSIONS => '1', IN MEMORY => 'false', KEEP DELETED CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0')
(NAME => 'card_details', BLOOMFILTER => 'ROW', VERSIONS => '1', IN MEMORY => 'false', KEEP DELETED CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0')
4 Row(s) in 0.3170 seconds
hbase(main):002:0> █
```

## Capstone project – Credit Card Fraud Detection (mid submission)

by

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