



Loading Historical Transactions Data into NoSQL Database

Commands to load the past transactions data into NoSQL database

```
<Commands to load the data>
hadoop fs -mkdir /capstone_project
hadoop fs -chown ec2-user:ec2-user /capstone_project
hadoop fs -mkdir /capstone_project/card_transactions
```

 $hadoop\ distcp\ \underline{s3://creditcapstone/credit/card\ transactions.csv}\ / capstone_project/card_transactions/$

hadoop distcp <u>s3://creditcapstone/creditzip/uszipsv.csv</u> /capstone_project/card_transactions/

Command to list the table in which the data is loaded and the command to get the count of the rows of the table>

<Commands to list table and show its count>

```
CREATE DATABASE capstone_project;
USE capstone_project;
```

1>> card transactions ext

```
CREATE EXTERNAL TABLEIF NOT EXISTS card_transactions_ext( `card_id` string, `member_id` string, `amount` DOUBLE, `postcode` string, `pos_id` string, `tran saction_dt` string, `status` string) row format delimited fields terminated B Y ',' location '/capstone_project/card transactions' tblproperties ("skip.header.line.count"="1");
```

2>> card transactions hbase

```
CREATE TABLE card_transactions_hbase

(
    `transaction_id` STRING,
    `card_id` STRING,
    `member_id` STRING,
    `amount` DOUBLE,
    `postcode` STRING,
    `transaction_dt` TIMESTAMP,
    `status` STRING
) row format delimited stored BY
'org.apache.hadoop.hive.hbase.HBaseStorageHandler' WITH serdeproperties (
"hbase.columns.mapping"=
"':key, card_transactions_family:card_id, card_transactions_family:member_id,
    card_transactions_family:amount, card_transactions_family:postcode, card_transactions_family:transaction_dt, card_transactions_family:status")
tblproperties ("hbase.table.name"="card_transactions hive");
```





3>> lookup data hbase

```
CREATE TABLE lookup_data_hbase
  (
     `card id`
                      STRING
     `ucl`
                      DOUBLE,
     `score`
     `postcode`
                      STRING,
     `transaction_dt` TIMESTAMP
  ) stored BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler' WITH
serdeproperties ("hbase.columns.mapping"=
": key,
                                             lookup_card_family:ucl,
lookup card family:score, lookup transaction family:postcode, lookup transact
ion family: transaction dt"
) tblproperties ("hbase.table.name" = "lookup_data_hive");
4>> card transactions orc
CREATE TABLE IF NOT EXISTS card transactions orc
     `card_id`
                      STRING,
     `member_id`
`amount`
                      STRING,
                     DOUBLE,
     `postcode`
                     STRING,
     `pos id`
                      STRING,
     `transaction dt` TIMESTAMP,
     `status`
                      STRING
  ) stored AS orc tblproperties ("orc.compress"="SNAPPY");
```

5>> List Tables





Show TABLES;

6>> Get Count of Rows

```
SELECT Count(*) FROM card_transactions_ext;
SELECT Count(*) FROM card_transactions_hbase;
SELECT Count(*) FROM lookup_data_hbase;
SELECT Count(*) FROM card transactions orc;
```

Screenshot of the table created

<Attach the screenshot>

