Loading Historical Transactions Data into NoSQL Database

Commands to load the past transactions data into NoSQL database

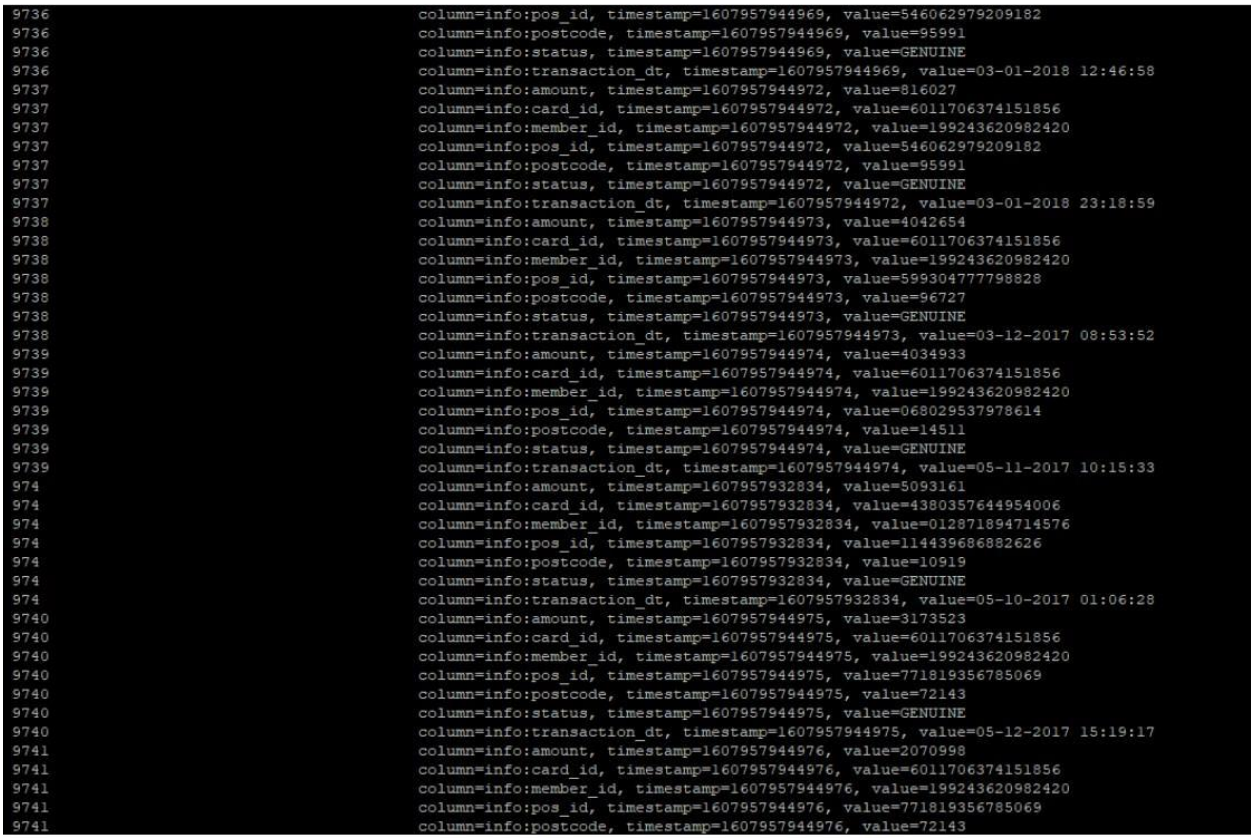
```
import happybase

#To create connection
connection = happybase.Connection('localhost', port=9090 ,autoconnect=False)

#To open connection and perform operations
def open_connection():
  connection.open()

#To close the opened connection
def close_connection():
  connection.close()

#To list all tables in Hbase
def list_tables():
  print "fetching all table"
  open_connection()
  tables = connection.tables()
  close_connection()
  print "all tables fetched"
  return tables

#To create the required table
def create_table(name,cf):
  print "creating table " + name
  tables = list_tables()
  if name not in tables:
    open_connection()
    connection.create_table(name, cf)
    close_connection()
    print "table created"
  else:
    print "table already present"

#To get the created table
def get_table(name):
  open_connection()
  table = connection.table(name)
  close_connection()
  return table
```

```
#To batch insert data
def batch_insert_data(filename,tableName):
   print "starting batch insert of events"
   file = open(filename, "r")
   table = get_table(tableName)
   open_connection()
   i=0
   for line in file:
      temp = line.strip().split(",")

      #To skip first row
      if temp[0]!='card_id':
         table.put(bytes(i) , { 'info:card_id':bytes(temp[0]),
            'info:member_id':bytes(temp[1]),
            'info:amount':bytes(temp[2]),
            'info:postcode':bytes(temp[3]),
            'info:pos_id':bytes(temp[4]),
            'info:transaction_dt':bytes(temp[5]),
            'info:status':bytes(temp[6])})
      i=i+1
      file.close()
   print "batch insert done"
   close_connection()

#To batch insert data of card_transactions.csv
create_table('card_transactions', {'info' : dict(max_versions=5) })
batch_insert_data('card_transactions.csv','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>

Command used to view the created table: *list*
Command used to get the count of the rows in table: *count card_transactions*

Screenshot of the table created



```
9736                                    column=info:pos_id, timestamp=1607957944969, value=546062979209182
9736                                    column=info:postcode, timestamp=1607957944969, value=95991
9736                                    column=info:status, timestamp=1607957944969, value=GENUINE
9736                                    column=info:transaction_dt, timestamp=1607957944969, value=03-01-2018 12:46:58
9737                                    column=info:amount, timestamp=1607957944972, value=816027
9737                                    column=info:card_id, timestamp=1607957944972, value=6011706374151856
9737                                    column=info:member_id, timestamp=1607957944972, value=199243620982420
9737                                    column=info:pos_id, timestamp=1607957944972, value=546062979209182
9737                                    column=info:postcode, timestamp=1607957944972, value=95991
9737                                    column=info:status, timestamp=1607957944972, value=GENUINE
9737                                    column=info:transaction_dt, timestamp=1607957944972, value=03-01-2018 23:18:59
9738                                    column=info:amount, timestamp=1607957944973, value=4042654
9738                                    column=info:card_id, timestamp=1607957944973, value=6011706374151856
9738                                    column=info:member_id, timestamp=1607957944973, value=199243620982420
9738                                    column=info:pos_id, timestamp=1607957944973, value=599304777798828
9738                                    column=info:postcode, timestamp=1607957944973, value=96727
9738                                    column=info:status, timestamp=1607957944973, value=GENUINE
9738                                    column=info:transaction_dt, timestamp=1607957944973, value=03-12-2017 08:53:52
9739                                    column=info:amount, timestamp=1607957944974, value=4034933
9739                                    column=info:card_id, timestamp=1607957944974, value=6011706374151856
9739                                    column=info:member_id, timestamp=1607957944974, value=199243620982420
9739                                    column=info:pos_id, timestamp=1607957944974, value=068029537978614
9739                                    column=info:postcode, timestamp=1607957944974, value=14511
9739                                    column=info:status, timestamp=1607957944974, value=GENUINE
9739                                    column=info:transaction_dt, timestamp=1607957944974, value=05-11-2017 10:15:33
974                                     column=info:amount, timestamp=1607957932834, value=5093161
974                                     column=info:card_id, timestamp=1607957932834, value=4380357644954006
974                                     column=info:member_id, timestamp=1607957932834, value=012871894714576
974                                     column=info:pos_id, timestamp=1607957932834, value=114439686882626
974                                     column=info:postcode, timestamp=1607957932834, value=10919
974                                     column=info:status, timestamp=1607957932834, value=GENUINE
974                                     column=info:transaction_dt, timestamp=1607957932834, value=05-10-2017 01:06:28
9740                                    column=info:amount, timestamp=1607957944975, value=3173523
9740                                    column=info:card_id, timestamp=1607957944975, value=6011706374151856
9740                                    column=info:member_id, timestamp=1607957944975, value=199243620982420
9740                                    column=info:pos_id, timestamp=1607957944975, value=771819356785069
9740                                    column=info:postcode, timestamp=1607957944975, value=72143
9740                                    column=info:status, timestamp=1607957944975, value=GENUINE
9740                                    column=info:transaction_dt, timestamp=1607957944975, value=05-12-2017 15:19:17
9741                                    column=info:amount, timestamp=1607957944976, value=2070998
9741                                    column=info:card_id, timestamp=1607957944976, value=6011706374151856
9741                                    column=info:member_id, timestamp=1607957944976, value=199243620982420
9741                                    column=info:pos_id, timestamp=1607957944976, value=771819356785069
9741                                    column=info:postcode, timestamp=1607957944976, value=72143
```