



Loading Historical Transactions Data into NoSQL Database

Commands to load the past transactions

data into NoSQL database

Note:

I am following an approach to read all card history transaction data by using Spark.

Still, for submission, I coded a program in .py to load CSV to hbase and create a table card transaction.

This below code is going to load all CSV into NoSQL in batch mode.

import happybase #create connection connection = happybase.Connection('localhost', port=9090 ,autoconnect=False) #open connection to perform operations def open_connection(): connection.open() #close the opened connection def close_connection(): connection.close() #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





```
#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"
#get the pointer to a table
def get_table(name):
open_connection()
table = connection.table(name)
close_connection()
return table
#batch insert data in events table
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(",")
 #Skip the 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()
# Batch insert data of card transactions.csv file.
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>

- 1) Login to Putty and enter as root user.
- 2) Run thrift server
- 3) Give Hbase Shell and press enter.
- 4) Give "list" to see all tables in hbase

```
hbase(main):001:0> list

TABLE
card_transactions
employee
look_up_table
3 row(s) in 0.1970 seconds

=> ["card_transactions", "employee", "look_up_table"]
hbase(main):002:0> [
```

5) Give "count 'card_transactions' "in command line.

```
=> ["card_transactions", "employee", "look_up_table"]
hbase(main):002:0> count 'card_transactions'
Current count: 1000, row: 10898
```

```
Current count: 53000, row: 9735
53292 row(s) in 4.1730 seconds
```





Screenshot of the table created

1) Scan 'card_transactions'



