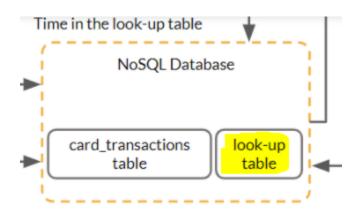




Creating Lookup Table

Command to create the Lookup Table



Used Python file for this step and created a dataframe which acts as a source file to Hbase and created a lookup table in NoSQL and then loaded the data also.

Dataframe Name: lookup_table Hbase Table: lookup_table

#import happybase and connect to localhost

import happybase

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

#function definition to open connection

def open_connection():
 connection.open()

#function definition to close connection

def close_connection():
 connection.close()

#function definition to list the tables

def list_tables():
 print "fetching all table"
 open_connection()
 tables = connection.tables()
 close_connection()
 print "all tables fetched"
 return tables





```
#check if table already exist and create the 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"
# While loading DF into table, this function gets the create table name
def get_table(name):
open_connection()
table = connection.table(name)
close_connection()
return table
#Actual command to create lookup table
create_table('lookup_table', {'info' : dict(max_versions=5) })
#Function to load data from DF
def batch_insert_data(df,tableName):
print "starting batch insert of events"
table = get_table(tableName)
open_connection()
rows_count=0
rowKey_dict={}
with table.batch(batch_size=4) as b:
```

b.put(bytes(row.card_id), { 'info:card_id':bytes(row.card_id),

'info:transaction_date':bytes(row.transaction_date),

for row in df.rdd.collect():

'info:score':bytes(row.score),

'info:UCL':bytes(row.UCL)})

'info:postcode':bytes(row.postcode),





print "batch insert done"
close_connection()

#Call function to insert data into Hbase table

batch insert data(lookup table, 'lookup table')

Command to see the table created

- 1) Login to putty as root user
- 2) Start thrift server using below command

/opt/cloudera/parcels/CDH/lib/hbase/bin/hbase-daemon.sh start thrift -p 9090

- 3) Give command hbase shell
- 4) Give command "list"

Screenshot of the created table

```
hbase(main):007:0> list

TABLE
card_transactions
lookup_table
2 row(s) in 0.0070 seconds

=> ["card_transactions", "lookup_table"]
hbase(main):008:0>
```



