Creating Lookup Table:

python file which I used that does batch insertion of CSV into HBASE table.

1. Created a DF in pyspark which acts as CSV here and use happybase .py file to load data into NoSQL table.

```
DF Name: look up table Hbase
Table: look_up_table
import happybase connection = happybase.Connection('localhost', port=9090 ,autoconnect=False)
def open_connection():connection.open()
def close_connection(): connection.close()
def list tables():
print "fetching all table"
open connection()
tables = connection.tables()
close connection()
print "all tables fetched"
return tables
    2. Checking if table already exist, 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"
    3. loading Dataframe into table, this function creates table name
        def get_table(name):
         open connection()
        table = connection.table(name)
        close connection()
        return table
    4. Command to create lookup table
        create_table('look_up_table', {'info' : dict(max_versions=5) })
    5. Loading data from Dataframe as executed below
        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:
        for row in df.rdd.collect():
```

```
b.put(bytes(row.card_id) , {
'info:card_id':bytes(row.card_id),'info:transaction_date':bytes(row.transaction_date),'info:score
':bytes(row.score), 'info:postcode':bytes(row.postcode), 'info:UCL':bytes(row.UCL)})
print "batch insert done"
close_connection()
```

6. Calling function to insert data into Hbase table

batch_insert_data(look_up_table,'look_up_table')

- 7. Steps see the tables created
 - a. Login to putty as root user.
 - b. Put up thrift server.
 - c. Hbase shell.
 - d. "list"

```
hbase(main):001:0> list
TABLE
card_transactions
employee
look_up_table
3 row(s) in 0.3340 seconds
=> ["card_transactions", "employee", "look_up_table"]
```

Complete info of loaded data ino to HBase Database: