



Creating Lookup Table

Command to create the Lookup Table

Below is a python file which I used that flavors batch insertion of CSV into hbase table.

I created a dataframe in pyspark which acts as CSV here and use happybase .py file to load data into NoSQL table.

```
Dataframe 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
```

#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('look_up_table', {'info' : dict(max_versions=5) })
```

#Function to load data from DF





print "batch insert done"
close_connection()

#Call function to insert data into Hbase table

batch_insert_data(look_up_table,'look_up_table')

<Command to see the table created>

- 1) Login to putty as root user
- 2) Put up thrift server
- 3) Give command Hbase shell
- 4) Give command "list"

Screenshot of the created table

```
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"]
```





Give command scan 'look up table' to see data inserted into table

```
column=info:transaction_date, timestamp=1607880087142, value=2018-01-31 13:10:37 column=info:tdl, timestamp=1607880086730, value=13734342.65 column=info:card_id, timestamp=1607880086730, value=52128415413632 column=info:score, timestamp=1607880086730, value=52186 column=info:transaction_date, timestamp=1607880086730, value=2018-01-28 00:54:30 column=info:transaction_date, timestamp=1607880086730, value=2018-01-28 00:54:30 column=info:tdl, timestamp=1607880086800, value=15065362.77 column=info:card_id, timestamp=1607880086800, value=24927 column=info:score, timestamp=1607880086800, value=24927 column=info:transaction_date, timestamp=160788008730, value=24927 column=info:tdl, timestamp=160788008730, value=350 column=info:tdl, timestamp=160788008731, value=350 column=info:date, timestamp=1607880087351, value=68328 column=info:card_id, timestamp=1607880087351, value=68328 column=info:card_id, timestamp=1607880087351, value=68328 column=info:transaction_date, timestamp=1607880087351, value=2018-01-30 10:50:34 column=info:transaction_date, timestamp=1607880087351, value=2018-01-30 10:50:34 column=info:card_id, timestamp=1607880087066, value=2508 column=info:card_id, timestamp=1607880087066, value=22508 column=info:card_id, timestamp=1607880087066, value=22508 column=info:transaction_date, timestamp=1607880087066, value=22508 column=info:card_id, timestamp=1607880087066, value=210 column=info:card_id, timestamp=1607880087956, value=6595928469079750 column=info:card_id, timestamp=1607880087956, value=6595928469079750 column=info:card_id, timestamp=1607880087956, value=6595928469079750 column=info:card_id, timestamp=1607880087956, value=68595928469079750 column=info:card_id, timestamp=1607880087956, value=6595928469079750 column=info:card_id, timestamp=1607880087956, value=98349 column=info:card_id, timestamp=1607880087956, value=6595928469079750 column=info:card_id, timestamp=1607880087956, value=98349 column=info:card_id, timestamp=1607880087956, value=98349 column=info:card_id, timestamp=1607880087956, value=98349 co
6592184145413632
6592184145413632
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6594248319343442
6594248319343442
6595638658736751
  595638658736751
 5595928469079750
                                                                                                                                                                                                                                                   Column-Info:score, timestamp-1607880087956, value-93379
column=info:score, timestamp-1607880087956, value-412
column-info:score, timestamp-1607880087956, value=2018-01-24 12:38:22
column-info:UCL, timestamp=1607880087391, value=15250624.49
column-info:card_id, timestamp=1607880087391, value=6587703848279563
column-info:postcode, timestamp=1607880087391, value=95699
6595928469079750
 5597703848279563
                                                                                                                                                                                                                                                 column=info:postcode, timestamp=1607880087391, value=95699
column=info:score, timestamp=1607880087391, value=218
column=info:transaction_date, timestamp=1607880087391, value=2018-01-27 10:51:49
column=info:UCL, timestamp=1607880087564, value=12688782.48
column=info:card_id, timestamp=1607880087564, value=598830758632447
column=info:postcode, timestamp=1607880087564, value=19421
 5597703848279563
                                                                                                                                                                                                                                                 column-info:socote, timestamp=1607880087564, value=19421
column-info:socote, timestamp=1607880087564, value=293
column-info:transaction_date, timestamp=1607880087564, value=2018-01-30 00:18:34
column-info:UCL, timestamp=1607880087928, value=12487392.07
column-info:card_id, timestamp=1607880087928, value=2599900931314251
column-info:postcode, timestamp=1607880087928, value=97423
6598830758632447
 5599900931314251
                                                                                                                                                                                                                                                   column=info:score, timestamp=1607880087928, value=297
column=info:transaction_date, timestamp=1607880087928, value=2018-01-31 11:25:16
99 row(s) in 2.5910 seconds
```