



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
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()
#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.

```
up_table' to see data inserted into table.

column-info:transaction_date, timestamp=1607880087970, value=2018-01-22 00:56:57
column-info:UCL, timestamp=1607880086427, value=14120434.4
column-info:cord, timestamp=1607880086427, value=5232083808576685
column-info:postcode, timestamp=1607880086427, value=5232083808576685
column-info:cord, timestamp=1607880086427, value=506
column-info:transaction_date, timestamp=1607880086427, value=2018-01-09 12:44:31
column-info:transaction_date, timestamp=1607880087122, value=203271306465150
column-info:cord, timestamp=1607880087122, value=203271306465150
column-info:cord, timestamp=1607880087122, value=203271306465150
column-info:transaction_date, timestamp=1607880087122, value=2018-01-22 16:44:59
column-info:transaction_date, timestamp=1607880087349, value=52326950818720
column-info:cord, timestamp=1607880087849, value=5232695980818720
column-info:cord, timestamp=1607880087849, value=20326959808720
column-info:transaction_date, timestamp=1607880087849, value=2018-01-29 08:30:32
column-info:transaction_date, timestamp=1607880087849, value=203269590818720
column-info:cord, timestamp=1607880086358, value=12835247.32
column-info:cord, timestamp=1607880086358, value=22873300865898772
column-info:cord, timestamp=1607880086358, value=22873300865898772
column-info:cord, timestamp=1607880086358, value=22873200866598772
column-info:cord, timestamp=1607880086358, value=2383300865898772
column-info:cord, timestamp=1607880086358, value=23834712000086
column-info:cord, timestamp=1607880088013, value=32834712000086
column-info:cord, timestamp=1607880088013, value=368217
column-info:cord, timestamp=1607880088013, value=36822360609831
column-info:cord_id, timestamp=1607880087191, value=234962396609831
column-info:cord_id, timestamp=1607880087191, value=234962396609831
column-info:cord_id, timestamp=1607880087191, value=2365
column-info:cord_id, timestamp=1607880087191, value=3525551880815473
column-info:cord_id, timestamp=1607880087191, value=30820610-128 00:54:29
column-info:cord_id, timesta
5232083808576685
5232083808576685
5232083808576685
5232271306465150
 5232695950818720
5239380866598772
5239380866598772
5239380866598772
   239380866598772
 5242841712000086
   249623960609831
 5249623960609831
5249623960609831
 5249623960609831
5249623960609831
   253084214148600
253084214148600
 5253084214148600
 5253084214148600
5253084214148600
5254025009868430
5254025009868430
```





№ root@ip-10-0-0:~		
6591175617713393	column=info:transaction date, timestamp=1607880087142, value=2018-01-31 13:10:37	
6592184145413632	column=info:UCL, timestamp=1607880086730, value=13734342.65	
6592184145413632	column=info:card id, timestamp=1607880086730, value=6592184145413632	
6592184145413632	column=info:postcode, timestamp=1607880086730, value=53186	
6592184145413632	column=info:score, timestamp=1607880086730, value=456	
6592184145413632	column=info:transaction_date, timestamp=1607880086730, value=2018-01-28 00:54:30	
6594248319343442	column=info:UCL, timestamp=1607880086800, value=15065362.77	
6594248319343442	column=info:card_id, timestamp=1607880086800, value=6594248319343442	
6594248319343442	column=info:postcode, timestamp=1607880086800, value=24927	
6594248319343442	column=info:score, timestamp=1607880086800, value=350	
6594248319343442	column=info:transaction_date, timestamp=1607880086800, value=2018-01-31 23:42:38	
6595638658736751	column=info:UCL, timestamp=1607880087351, value=14005069.97	
6595638658736751	column=info:card_id, timestamp=1607880087351, value=6595638658736751	
6595638658736751	column=info:postcode, timestamp=1607880087351, value=68328	
6595638658736751	column=info:score, timestamp=1607880087351, value=310	
6595638658736751	column=info:transaction_date, timestamp=1607880087351, value=2018-01-30 10:50:34	
6595814135833988	column=info:UCL, timestamp=1607880087066, value=14332708.84	
6595814135833988	column=info:card_id, timestamp=1607880087066, value=6595814135833988	
6595814135833988	column=info:postcode, timestamp=1607880087066, value=22508	
6595814135833988	column=info:score, timestamp=1607880087066, value=210	
6595814135833988	column=info:transaction_date, timestamp=1607880087066, value=2018-01-30 02:03:54	
6595928469079750	column=info:UCL, timestamp=1607880087956, value=11824730.01	
6595928469079750	column=info:card_id, timestamp=1607880087956, value=6595928469079750	
6595928469079750	column=info:postcode, timestamp=1607880087956, value=98349	
6595928469079750	column=info:score, timestamp=1607880087956, value=412	
6595928469079750	column=info:transaction_date, timestamp=1607880087956, value=2018-01-24 12:38:22	
6597703848279563	column=info:UCL, timestamp=1607880087391, value=15250624.49	
6597703848279563	column=info:card_id, timestamp=1607880087391, value=6597703848279563	
6597703848279563	column=info:postcode, timestamp=1607880087391, value=95699	
6597703848279563	column=info:score, timestamp=1607880087391, value=218	
6597703848279563	column=info:transaction_date, timestamp=1607880087391, value=2018-01-27 10:51:49	
6598830758632447	column=info:UCL, timestamp=1607880087564, value=12685782.48	
6598830758632447	column=info:card_id, timestamp=1607880087564, value=6598830758632447	
6598830758632447	column=info:postcode, timestamp=1607880087564, value=19421	
6598830758632447	column=info:score, timestamp=1607880087564, value=293	
6598830758632447	column=info:transaction_date, timestamp=1607880087564, value=2018-01-30 00:18:34	
6599900931314251	column=info:UCL, timestamp=1607880087928, value=12487392.07	
6599900931314251	column=info:card_id, timestamp=1607880087928, value=6599900931314251	
6599900931314251	column=info:postcode, timestamp=1607880087928, value=97423	
6599900931314251	column=info:score, timestamp=1607880087928, value=297	Activate W
6599900931314251	column=info:transaction_date, timestamp=1607880087928, value=2018-01-31 11:25:16	
999 row(s) in 2.5910 seconds		Go to Setting