



Creating Lookup Table

Command to create the Lookup Table

Dataframe Name: look_up_table Hbase Table: look_up_table

```
import happybase
# Establish connection to HBase
connection = happybase.Connection('localhost', port=9090, autoconnect=False)
# Function to open the connection
def open_connection():
   connection.open()
# Function to close the connection
def close_connection():
   connection.close()
# Function to list all tables in HBase
def list_tables():
   print("Fetching all tables")
   open_connection()
   tables = connection.tables()
    close_connection()
   print("All tables fetched")
    return tables
# Function to create a new HBase 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")
       print("Table already present")
# Function to get a table object
def get_table(name):
    open_connection()
   table = connection.table(name)
   close_connection()
    return table
# Create the lookup table with the specified column family
create_table('look_up_table', {'info': dict(max_versions=5)})
```





```
# Function to batch insert data into the HBase table
def batch_insert_data(df, tableName):
    print("Starting batch insert of events")
    table = get_table(tableName)
   open_connection()
   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()
# Insert data into HBase table from the DataFrame
batch_insert_data(look_up_table, 'look_up_table')
```

<Command to see the table created>

- list command is used to view the created table
- scan 'look_up_table' command to view data inserted into table.

Screenshot of the created table