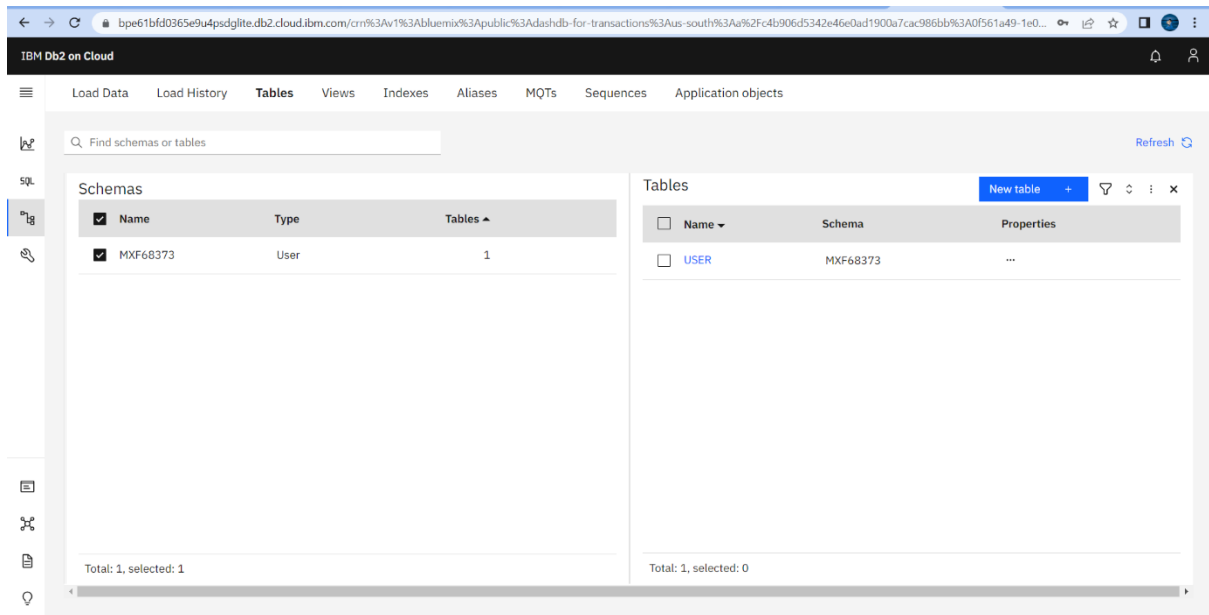


IBM DB2 WITH PYTHON

Team ID	PNT2022TMID29529
Project Name	Inventory Management System for Retailers

IBM Db2 service in the IBM cloud and connect the python code with DB:



Python code with DB:

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re

app = Flask(__name__)

hostname = "1bbf73c5-d84a-4bb0-85b9-
ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud"

uid = 'mxf68373'

pwd = 'Pm0CqXpJKaSYpbDu'

driver = "{IBM DB2 ODBC DRIVER}"

db_name = 'Bludb'

port = '32286'

protocol = 'TCPIP'
```

```

cert = "C:/Users/xmin1/Downloads/DigiCertGlobalRootCA.crt"
dsn = (
    "DATABASE={0};"
    "HOSTNAME={1};"
    "PORT={2};"
    "UID={3};"
    "SECURITY=SSL;"
    "PROTOCOL={4};"
    "PWD={6};"
).format(db_name, hostname, port, uid, protocol, cert, pwd)
connection = ibm_db.connect(dsn, "", "")
print()
app.secret_key = 'a'
@app.route('/search', methods=['GET', 'POST'])
def search():
    msg = " "
    if request.method == 'POST':
        username = request.form['username']
        email_id = request.form['email_id']
        phone_no = request.form['phone_no']
        password = request.form['password']
        query = "SELECT * FROM USER1 WHERE username=?;"
        stmt = ibm_db.prepare(connection, query)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        if (account):

```

```
msg = "Account already exists!"
return render_template('index.html', msg=msg)
else:
    query = "INSERT INTO USER1 values(?,?,?,?)"
    stmt = ibm_db.prepare(connection, query)
    ibm_db.bind_param(stmt, 1, username)
    ibm_db.bind_param(stmt, 2, email_id)
    ibm_db.bind_param(stmt, 3, phone_no)
    ibm_db.bind_param(stmt, 4, password)
    ibm_db.execute(stmt)
    msg = 'You have successfully Logged In!!'
    return render_template('search.html', msg=msg)
else:
    msg = 'PLEASE FILL OUT OF THE FORM'
    return render_template('index.html', msg=msg)
@app.route('/index', methods=['GET', 'POST'])
def login():
    global userid
    msg = ''
    if request.method == "POST":
        username = request.form['username']
        password = request.form['password']
        query = "select * from user1 where username=? and password=?"
        stmt = ibm_db.prepare(connection, query)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
```

```
account = ibm_db.fetch_assoc(stmt)
print(account)
if account:
    session['Loggedin'] = True
    session['id'] = account['USERNAME']
    session['username'] = account['USERNAME']
    msg = 'Logged in Successfully'
    return render_template('search.html',msg=msg)
else:
    msg = 'Incorrect Username or Password'
    return render_template('index.html', msg=msg)
else:
    msg = 'PLEASE FILL OUT OF THE FORM'
    return render_template('index.html', msg=msg)
@app.route('/welcome', methods=['GET', 'POST'])
def welcome():
    if request.method == 'POST':
        username = request.form['username']
        print(username)
        return render_template('search.html')
    else:
        return render_template('search.html')
if __name__ == "__main__":
    app.run(debug=True)
    app.run(host='0.0.0.0')
```