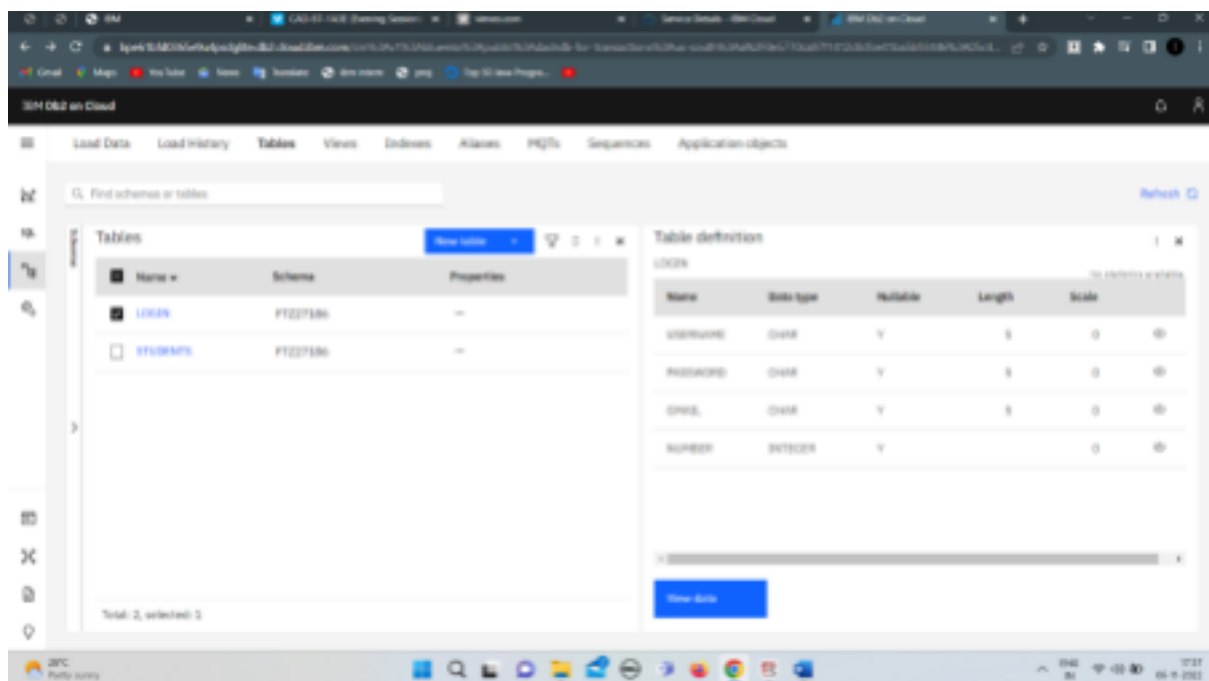


# IBM DB2 and Connect with python

Date	16.11.2022
Team ID	PNT2022TMID45932
Project Name	Smart Fashion Recommender Application

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



## App.py

```
from flask import Flask,render_template,request,session
import ibm_db
import re
app=Flask(__name__)
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bluedb;HOSTNAME=fbd88901-ebdb-4a4f-a32e
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;SECURITY=SSL;SSLS
E RVERCERTIFICATE=DigiCertGlobalRootCA.crt;UID=ftz27186;PWD=pwV52WSdXDAHVnLP","")
@app.route('/')
def homer():
    return render_template('home.html')
```

```

@app.route('/login',methods = ['GET','POST'])
def login():
    global userid
    msg = ""
    if request.method == 'POST' :
        username = request.form['username']
        password = request.form['password']
        sql = "SELECT * FROM users WHERE username =? AND
password=?" stmt = ibm_db.prepare(conn,sql)
        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']
            msg = 'Logged in succesfully !'
            msg = 'Logged in successfully!'
            return render_template('dashboard.html',msg =
msg) else:
            msg = 'Incorrect username / password'
            return render_template('login.html', msg = msg)
@app.route('/register', methods = ['GET', 'POST'])
def register():
    msg = ""
    if request.method == 'POST' :
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        sql= "SELECT * FROM users WHERE username =?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'Account already exists !'
            elif not re.match(r'^@[^@]+\.[^@]+',email):
                msg = 'Invalid email address !'
            elif not re.match(r'[A-Za-z0-9]+',username):
                msg = 'name must contain only characters and numbers!' else:
            insert_sql = "INSERT INTO users VALUES (?,?)"

```

```

prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prepare_stmt,1,username)
ibm_db.bind_param(prepare_stmt,2,email)
ibm_db.bind_param(prepare_stmt,3,password)
ibm_db.execute(prepare_stmt)
msg = 'You have successfully registered !'
elif request.method == 'POST' :
    msg = 'Please fill out the form !'
    return render_template('register.html', msg = msg)
@app.route('/dashboard')
def dash():
    return render_template('dashboard.html')
@app.route('/apply',method =['GET', 'POST'])
def apply():
    msg = ''
    if request.method == 'POST' :
        username = request.form['username']
        email= request.form['email']
        qualification= request.form['qualification']
        skills = request.form['skills']
        jobs = request.form['s']
        sql = "SELECT * FROM users WHERE username =?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'there is only 1 job position for you'
            return render_template('apply.html', msg = msg)
        insert_sql = "INSERT INTO job VALUES (?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prepare_stmt, 1, username)
        ibm_db.bind_param(prepare_stmt, 2, email)
        ibm_db.bind_param(prepare_stmt, 3, qualification)
        ibm_db.bind_param(prepare_stmt, 4, skills)
        ibm_db.bind_param(prepare_stmt, 5, jobs)
        ibm_db.execute(prepare_stmt)
        msg = 'You have successfully applied for job !'
        session['Loggedin'] = True
        TEXT = "Hello, a new application for job position" +jobs+"is requested"
    elif request.method == 'POST' :
        msg = 'Please fill out the form !'

```

```
return render_template('register.html', msg = msg)
@app.route('/display')
def display():
    print(session["username"],session[id])
    cursor=mysql.connection.cursor()
    cursor.execute('selet*from job where userid = 5 s',(session['id'],))
    account=cursor.fetchone()
    print("accountdisplay",account)
    return
    render_template('display.html',account=account)
@app.route('/logout')
def logout():
    session.pop('loggedin',None)
    session.pop('id',None)
    session.pop('username',None)
    return render_template('home.html')
if __name__=='__main__':
    app.run(host='0.0.0.0')
```