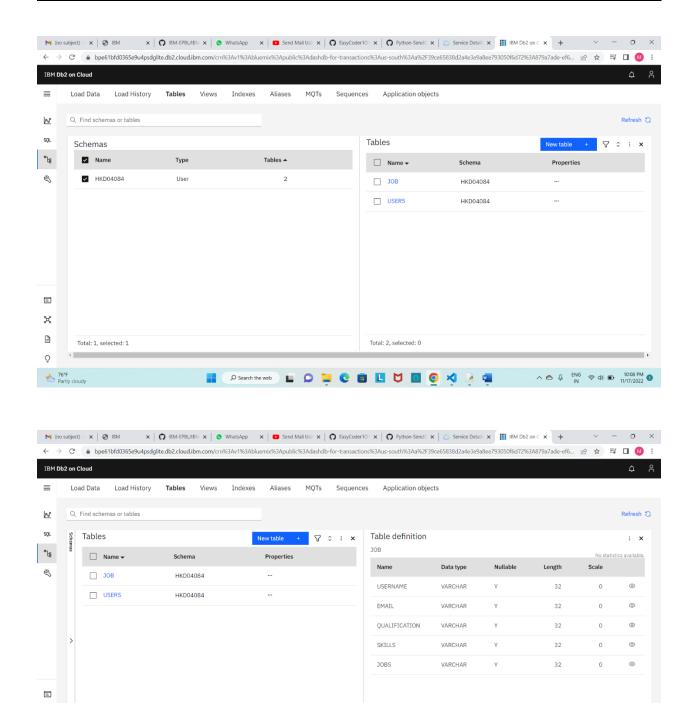
## **CREATE IBM IDB2 AND CONNECT WITH PYTHON**

Team ID	PNT2022TMID32918
Project Name	Project – Skill/Job Recommender



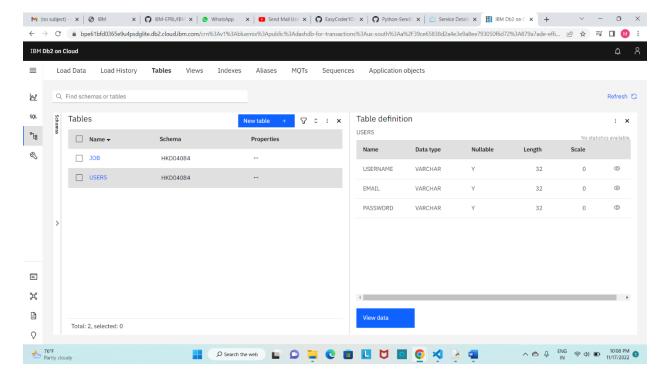
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## App.py:

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__)
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-
a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30756;SECURITY=SSL;SSLSer
verCertificate=DigiCertGlobalRootCA.crt;UID=hkd04084;PWD=Bwjcq4p5AL1sL0FQ",",")
@app.route('/')
def homer():
return render_template('login.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']
      userid= account['USERNAME']
      session['username'] = account['USERNAME']
      msg = 'Logged in successfully !'
      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 registet():
  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(prep_stmt, 1, username)
      ibm_db.bind_param(prep_stmt, 2, email)
      ibm_db.bind_param(prep_stmt, 3, password)
      ibm_db.execute(prep_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',methods =['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(prep_stmt, 1, username)
  ibm_db.bind_param(prep_stmt, 2, email)
  ibm_db.bind_param(prep_stmt, 3, qualification)
  ibm_db.bind_param(prep_stmt, 4, skills)
  ibm_db.bind_param(prep_stmt, 5, jobs)
  ibm_db.execute(prep_stmt)
  msg = 'You have successfully applied for job!'
  session['loggedin'] = True
  TEXT = "Hello sandeep,a new appliaction for job position" +jobs+"is requested"
  #sendmail(TEXT,"sandeep@thesmartbridge.com")
  sendgridmail("sandeep@thesmartbridge.com",TEXT)
```

```
elif request.method == 'POST':
    msg = 'Please fill out the form!'
  return render_template('apply.html', msg = msg)
@app.route('/display')
def display():
  print(session["username"],session['id'])
  cursor = mysql.connection.cursor()
  cursor.execute('SELECT * FROM job WHERE userid = % s', (session['id'],))
  account = cursor.fetchone()
  print("accountdislay",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')
```