

## IBM DB2 with PYTHON

Task ID	TSK-290912
Team ID	PNT2022TMID44592
Student Name	C.Vignesh
Student Roll Number	731719205022

### TASK:

Create IBM DB2 and Connect with Python

```
from email.mime import image
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__)

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=T
CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=
XHxCZLrUPYhyRiHW;", "", "")

@app.route('/')
@app.route('/login', methods =['GET', 'POST'])
def login():
    msg = ''
    if request.method == 'POST' and 'email' in request.form and 'password' in
request.form:
        username = request.form['email']
        password = request.form['password']
        stmt = ibm_db.exec_immediate(conn,'SELECT * FROM VIGNESH_DB WHERE email =
% s AND password = % s', (email, password, ))
        account = ibm_db.fetch_both(stmt)
        if username==password:
            session['loggedin'] = True
            session['id'] = account['id']
            session['email'] = account['email']
            msg = 'Logged in successfully !'
```

```

        return render_template('index.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' and 'username' in request.form and 'password' in
request.form and 'email' in request.form and 'roll_no' in request.form :
        roll_no = request.form['roll_no']
        username = request.form['username']
        password = request.form['password']
        cpassword = request.form['cpassword']
        email = request.form['email']
        conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=T
CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=
XHzCZLrUPYhyRiHW;", "", "")
        stmt = ibm_db.exec_immediate(conn,'SELECT * FROM VIGNESH_DB')
        if email==cpassword:
            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 = 'Username must contain only characters and numbers !'
        elif not username or not password or not email:
            msg = 'Please fill out the form !'
        else:
            sql=ibm_db.exec_immediate(conn,'INSERT INTO VIGNESH_DB (roll_no,
username, email, password, cpassword) VALUES (%s, % s, % s, % s)')
            msg = 'You have successfully registered !'
            print("you have successfully registered!")
            return redirect(url('/login'))
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
    return render_template('signup.html', msg = msg)

if __name__=='__main__':
    app.run(debug=True)

```

```
import ibm_db
ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=TCPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=XHzCZLrUPYhyRiHW;", "", "")
```

Service Details - IBM Cloud x IBM Db2 on Cloud x +

← → ↻ bpe61bfdd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Aav1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F0ea7b5a3064c40bc8b70793329fe603d%3A79b56228-e3ad-41...

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

NKZ00314.VIGNESH Back

SQL Export to CSV

USER NAME	ROLL NO	PASSWORD	CONFIRM PASSWORD	EMAIL
VIGNESH	22	67890	67890	VIGNESH@GMAIL.COM
malar	9	12345	12345	malar@gmail.com
priya	16	67890	67890	priya@gmail.com
swetha	21	12345	12345	swetha@gmail.com

29°C Haze 10:54 AM 10/11/2022