

## IBM DB2 with PYTHON

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### **TASK:**

Create IBM DB2 and Connect with Python

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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 PRIYA_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 !'

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        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=
XHxCZLrUPYhyRiHW;", "", "") stmt =
        ibm_db.exec_immediate(conn,'SELECT * FROM PRIYA_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 PRIYA_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.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=T
CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=
XHxCZLrUPYhyRiHW;", "", "")

```

