IBM DB2 with PYTHON

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TASK:

Create IBM DB2 and Connect with Python

```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=
XHzCZLrUPYhyRiHW;", "", "")

@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 BHAVA_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 !'
```

```python
        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-
72174024-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  BHAVA_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 BHAVA_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=
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```