

Create DB2 and connect python

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CREATING IBM DB2

The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected. On the left, the 'Schemas' section shows a table with columns 'Name', 'Type', and 'Tables'. It lists one schema: 'KFX23168' of type 'User' with 4 tables. On the right, the 'Tables' section shows a table with columns 'Name', 'Schema', and 'Properties'. It lists four tables: 'CLOUD', 'DATA', 'ONE', and 'USER', all under the 'KFX23168' schema. A 'New table' button is visible in the top right of the 'Tables' section. The bottom status bar shows the URL: <https://bs2ipcu0aporn0juf80lre.db2.cloud.ibm.com/cm%3A%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3A%2Fb74d6943f535450f841cd460f1724280%3A039b5e7-8d9c-49a5-b9ac-bf2dcte0957b%3A%3A/console/index.html#/explore/view>.

CONNECT WITH PYTHON CODE

The screenshot shows a Visual Studio Code editor window with a Python file named 'app.py'. The code is for a Flask application that connects to an IBM Db2 database. The code includes imports for Flask, render_template, request, session, and bcrypt. It defines a Flask app and a database connection using the ibm_db module. The code also includes a home route and a signup route that handles user registration and password hashing.

```
1 from flask import Flask, render_template, request, session
2 import bcrypt
3 import ibm_db
4 # conn = ibm_db.connect("DATABASE=buDb;HOSTNAME=21fecfd8-47b7-4937-840d-d791d0218660.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31864;U
5 app = Flask(__name__)
6 conn = ibm_db.connect(
7     "DATABASE=bludb;HOSTNAME=fbd88901-ebdb-4a4f-a32e-9822b9fb237b.c1ogj3sd0tgu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAME=dt46044;PAS
8
9
10
11 @app.route("/")
12 def home():
13     return render_template('editportfolio.html')
14
15
16 @app.route("/signup", methods=['GET', 'POST'])
17 def signup():
18     if request.method == 'POST':
19         email = request.form['Email Address']
20         password = request.form['Password']
21         password = request.form['Confirm Password']
22         if not email or not password:
23             return render_template('home.html')
24         hash = bcrypt.hashpw(password.encode('utf-8'), bcrypt.gensalt())
25         query = "SELECT * FROM USERS WHERE email=? OR password=?"
26         stmt = ibm_db.prepare(conn, query)
27         ibm_db.bind_param(stmt, 1, email)
28         ibm_db.bind_param(stmt, 2, password)
29         ibm_db.execute(stmt)
30         isUser = ibm_db.fetch_assoc(stmt)
31
32         if not isUser:
33             insert_sql = "INSERT INTO Users (email, PASSWORD) VALUES (?, ?)"
```