

Create DB2 and connect python

Date	17 November 2022
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Project Name	Smart Fashion Recommender Application

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, there is a sidebar with icons for SQL, Schemas, and Tables. The main area is divided into two panels: 'Schemas' and 'Tables'.

Schemas Panel:

Name	Type	Tables
XYL36403	User	4

Total: 1, selected: 1

Tables Panel:

Name	Schema	Properties
JOB	XYL36403	...
PERSONAL	XYL36403	...
USER	XYL36403	...
USERS	XYL36403	...

Total: 4, selected: 0

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, bcrypt, and ibm_db. It defines a Flask app and a database connection. The main logic is in the 'signup' function, which handles a POST request to create a new user. It checks if the email or password is missing, hashes the password, and inserts the user into the database. It also checks if the user already exists.

```
1 from flask import Flask, render_template, request, session
2 import bcrypt
3 import ibm_db
4 # conn = ibm_db.connect("DATABASE=blldb;HOSTNAME=21fecfd8-47b7-4937-848d-d791d0218660.bs2io90l08kqb1od8Lcg.databases.appdomain.cloud;PORT=31864;U
5 app = Flask(__name__)
6 conn = ibm_db.connect(
7     "DATABASE=blldb;HOSTNAME=fbd88901-ebdb-4a4f-a32e-9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAME=dtpp46044;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:
```