

## Create DB2 and connect python

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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' section is active, displaying a search bar and a 'Refresh' button. Below the search bar, there are two main sections: 'Schemas' and 'Tables'.

**Schemas:**

Name	Type	Tables
LVH76708	User	2

Total: 1, selected: 1

**Tables:**

Name	Schema	Properties
Age Details	LVH76708	...
New Table	LVH76708	...

Total: 2, 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, render\_template, request, session, bcrypt, and ibm\_db. It defines a Flask app and a database connection string. The app has two routes: a home page and a signup page. The signup page handles user registration by hashing the password and inserting it into the database.

```
1 from flask import Flask, render_template, request, session
2 import bcrypt
3 import ibm_db
4 # conn = ibm_db.connect("DATABASE=buldb;HOSTNAME=21fecfd8-47b7-4937-840d-d791d0218660.bs2io90L08kbIodB1cg.databases.appdomain.cloud;PORT=31864;U
5 app = Flask(__name__)
6 conn = ibm_db.connect(
7     "DATABASE=buldb;HOSTNAME=fbd88901-ebdb-4a4f-a32e-9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAME=dtg46044;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_stmt = "INSERT INTO Users (email, password) VALUES (?, ?)"
```