Mastering Python الدرس # 17 web development, one drop at a time

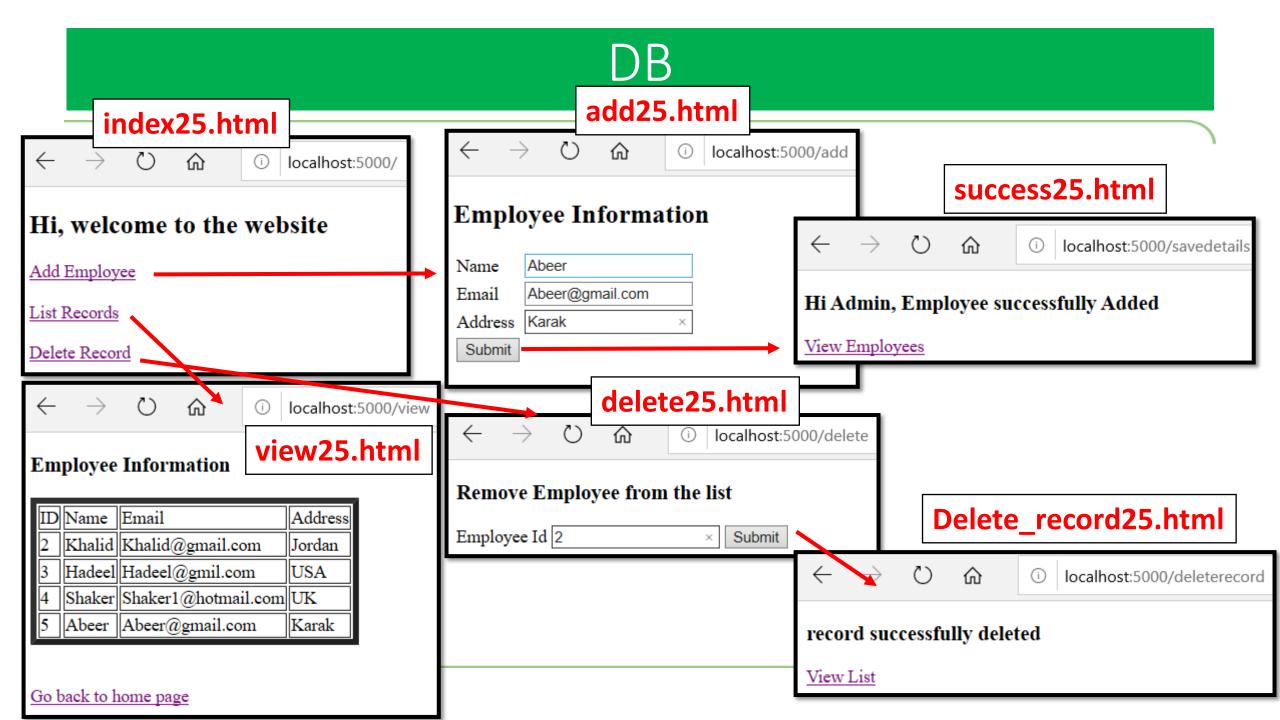
By: Hussam Hourani

V1.0 -DEC 2019

Flask and sqlite3

 Connecting Flask and sqlite3 with Emplyee Information

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DB – Create DB

EmployeeDB.py

```
import sqlite3
con = sqlite3.connect("employee.db")
print("Database opened successfully")

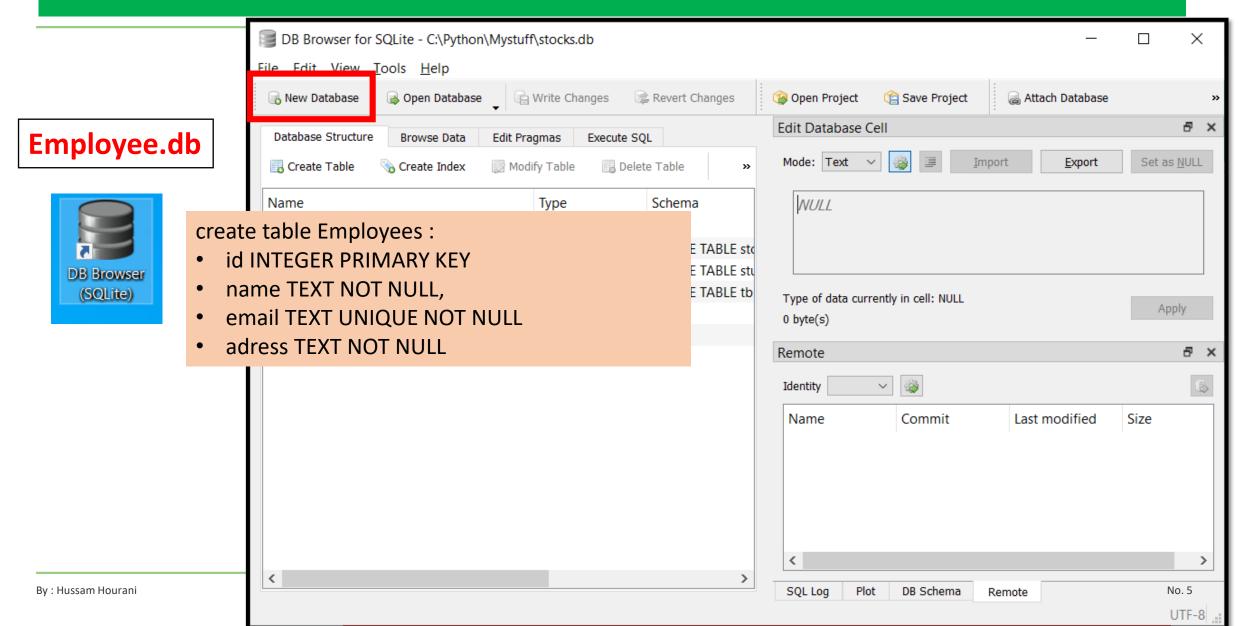
con.execute("create table Employees (id INTEGER PRIMARY KEY AUTOINCREMENT, \
name TEXT NOT NULL, email TEXT UNIQUE NOT NULL, \
address TEXT NOT NULL)")

print("Table created successfully")

con.close()
```

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DB – Create DB using SQLite Browser



DB – Main Program

```
1 from flask import *
                                              Employee25.html
2 import sqlite3
4 app = Flask( name )
6 @app.route("/")
7 def index():
      return render template("index25.html");
10 @app.route("/add")
11 def add():
     return render template("add25.html")
14@app.route("/savedetails",methods = ["POST","GET"])
15 def saveDetails():
     msg = "msg"
     if request.method == "POST":
         try:
              name = request.form["name"]
              email = request.form["email"]
              address = request.form["address"]
              with sqlite3.connect("employee.db") as con:
                 cur = con.cursor()
                 cur.execute("INSERT into Employees (name, email, address) values
                              (?,?,?)",(name,email,address))
                  con.commit()
                 msg = "Employee successfully Added"
         except:
              con.rollback()
              msg = "We can not add the employee to the list"
         finally:
              return render template("success25.html",msg = msg)
              con.close()
```

```
35 @app.route("/view")
36 def view():
      con = sqlite3.connect("employee.db")
      con.row factory = sqlite3.Row
      cur = con.cursor()
      cur.execute("select * from Employees")
      rows = cur.fetchall()
      return render template("view25.html",rows = rows)
45 @app.route("/delete")
46 def delete():
      return render template("delete25.html")
49 @app.route("/deleterecord", methods = ["POST"])
50 def deleterecord():
      id = request.form["id"]
      with sqlite3.connect("employee.db") as con:
          try:
              cur = con.cursor()
              cur.execute("delete from Employees where id = ?",id)
              msg = "record successfully deleted"
          except:
              msg = "can't be deleted"
          finally:
              return render template("delete record25.html",msg = msg)
62 if name == " main ":
      app.run(debug = True)
```

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DB

index25.html

```
1 <! DOCTYPE html>
2 < html>
3 <head>
      <title>home</title>
5 </head>
6 <body>
      <h2>Hi, welcome to the website</h2>
      <a href="/add">Add Employee</a><br><br>
      <a href ="/view">List Records</a><br><br></a></a></a>
      <a href="/delete">Delete Record</a><br><br>
11 </body>
12 </html>
```

success25.html

```
1 <! DOCTYPE html>
2 <html>
3 <head>
      <title>save details</title>
5 </head>
6 <body>
      <h3>Hi Admin, {{msg}}</h3>
      <a href="/view">View Employees</a>
9 </body>
10 </html>
```

add25.html

```
1 <! DOCTYPE html>
2 <html>
3 <head>
    <title>Add Employee</title>
5 </head>
6 <body>
    <h2>Employee Information</h2>
    <form action = "/savedetails" method="post">
    Name<input type="text" name="name">
       Email<input type="email" name="email">
       Address<input type="text" name="address">
       <input type="submit" value="Submit">
    </form>
L6 </body>
7 </html>
```

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view25.html

```
1 <! DOCTYPE html>
2 <html>
3 <head>
    <title>List</title>
5 </head>
6 <body>
8 <h3>Employee Information</h3>
9 
    <thead>
        ID
        Name
        Email
        Address
    </thead>
    {% for row in rows %}
       {{row["id"]}}
           {{row["name"]}}
           {{row["email"]}}
           {{row["address"]}}
        {% endfor %}
27 
28 <br><br>
30 <a href="/">Go back to home page</a>
32 </body>
33 </html>
```

DB

delete25.html

Delete_record25.html



Master in Software Engineering

Hussam Hourani has over 25 years of Organizations Transformation, VROs, PMO, Large Scale and Enterprise Programs Global Delivery, Leadership, Business Development and Management Consulting. His client experience is wide ranging across many sectors but focuses on Performance Enhancement, Transformation, Enterprise Program Management, Artificial Intelligence and Data Science.

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