## **Bilal AL Mohammad**

## Assignment #1:

```
SELECT Medication,
   COUNT(PatientID) AS NumberOfPatients,
   CASE
     WHEN ExpiryDate < GETDATE() THEN 'Expired'
     ELSE 'Active'
   END AS Status
FROM MedicationPrescriptions
GROUP BY Medication;
Query 2:
SELECT Doctor.Name, Department.Name, Patient.Name
FROM Doctor
JOIN Appointment ON Doctor.ID = Appointment.DoctorID
JOIN Patient ON Appointment.PatientID = Patient.ID
WHERE Patient.Age > 12
AND YEAR(Doctor.LastAttended) != 2022
ORDER BY Doctor.Name DESC, Patient.Name ASC;
```

## # Assignment #2: Webpage with PDF Generation

```
**HTML (index.html):**
html
<!DOCTYPE html>
<html>
<head>
    <title>Form Submission</title>
```

```
</head>
<body>
  <form id="dataForm">
    Full Name: <input type="text" name="fullname"><br>
    Email: <input type="text" name="email"><br>
    Phone Number: <input type="text" name="phone"><br>
    <button type="submit">Submit</button>
  </form>
  <script src="script.js"></script>
</body>
</html>
**JavaScript (script.js):**
document.getElementById('dataForm').addEventListener('submit', function(e) {
  e.preventDefault();
  const formData = new FormData(this);
  fetch('/submit', {
    method: 'POST',
    body: formData
  }).then(response => response.blob())
  .then(blob => {
    const url = window.URL.createObjectURL(blob);
    window.open(url, '_blank');
 });
});
**Python (app.py):**
from flask import Flask, request, send_file
import io
```

```
import qrcode
app = Flask(__name__)
@app.route('/submit', methods=['POST'])

def submit():
    data = request.form.to_dict()
    qr = qrcode.QRCode(version=1, box_size=10, border=5)
    qr.add_data(str(data))
    qr.make(fit=True)
    img = qr.make_image(fill='black', back_color='white')
    pdf = io.BytesIO()
    img.save(pdf, "PDF")
    pdf.seek(0)
    return send_file(pdf, attachment_filename="data.pdf", as_attachment=True)

if __name__ == '__main__':
    app.run(debug=True)
```