



**Computer Science Department**

**Database Management Systems 333**

## **PHASE 1**

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**Group Number: 8**

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### **✓ Summary**

My client business is a **Dentel Clinic**, and he needs to collect and arrange clinic's data, so my project is creating a data base for his dental clinic by SQL DBMS.

### **✓ Introduction**

Our client is a doctor, his name **Yousef Najjar**, from west Bank, he wants a data base system to manage his job and store data for patients, Doctors working with him in it, payments of patients, appointments and information about clinic material in public. so, our team will help him for save clinic's data by create a private data base.

## ✓ Information About Client

- ✚ **Client:** Viviane Clinic
- ✚ **Contant Person:** Yousef AlNajjar
- ✚ **Contant Info:** 0569199434
- ✚ **Location:** West Bank

## ✓ Technology

- ✚ **Laptops:** Lenovo ThinkPad && HP
- ✚ **Operating system:** Windows
- ✚ **DBMS:** MySQL
- ✚ **Programming language:** JAVA

## ✓ Data Requirements:

- ❖ **Doctors** have an age, a name, an address, a doctor\_id, phone, and Email.
- ❖ **Patients** have a name, an age, a patient\_id, and phone.
- ❖ **Prescription** has a Release date, category, patient name, patient age Doctor name, Prescription\_id.
- ❖ **Medicine** (means medical treatments inside the clinic) has a name, source, expiry date, production date, and medicine\_id.
- ❖ **Payments** have a payment-id, payment method, payment date, and payment amount.
- ❖ **Appointment** has an appointment-id, start time, end time, and appointment date.

- Each **doctor** produces one or more **prescriptions** but each **prescription** produced by **one doctor** inside the clinic.
- Each **doctor** treats one or more **patients** and Each **patient** may treat by one or more **doctors** inside the clinic.
- Each **patient** has a several **appointments** but each **appointment** is for one **patient** only.
- Each **patient** has several **financial payments** but each **payment** it must be paid by one **patient**.
- Each **prescription** contains one or more **medicine** and each **medicine** may can exist in several **prescriptions**.
- **Medicine** may take by several **patients** and the **patient** can take multiple of **medicine** from the clinic.

Entities	Primary Key	Relationships
Doctor	doctor_id	Produce, treat
Patient	Patient_id	Has
Prescription	Prescription_id	Contain
Payments	Payments_id	Has
Appointments	Appointments_id	Has
Medicine	Medicine_id	Take