



Computer Science Department

Database Management Systems 333

## PHASE 2

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### ✓ Summary

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

### ✓ Introduction

Our client is a doctor, his name **Yousef Najjar**, from West Bank, he wants a database 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 save the clinic's data by creating a private database.

### ✓ Information About Client



**Client:** Viviane Clinic



**Contant Person:** Yousef Al Najjar



**Contact 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, a phone, and an 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** is 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 several **appointments** but each **appointment** is for one **patient** only.

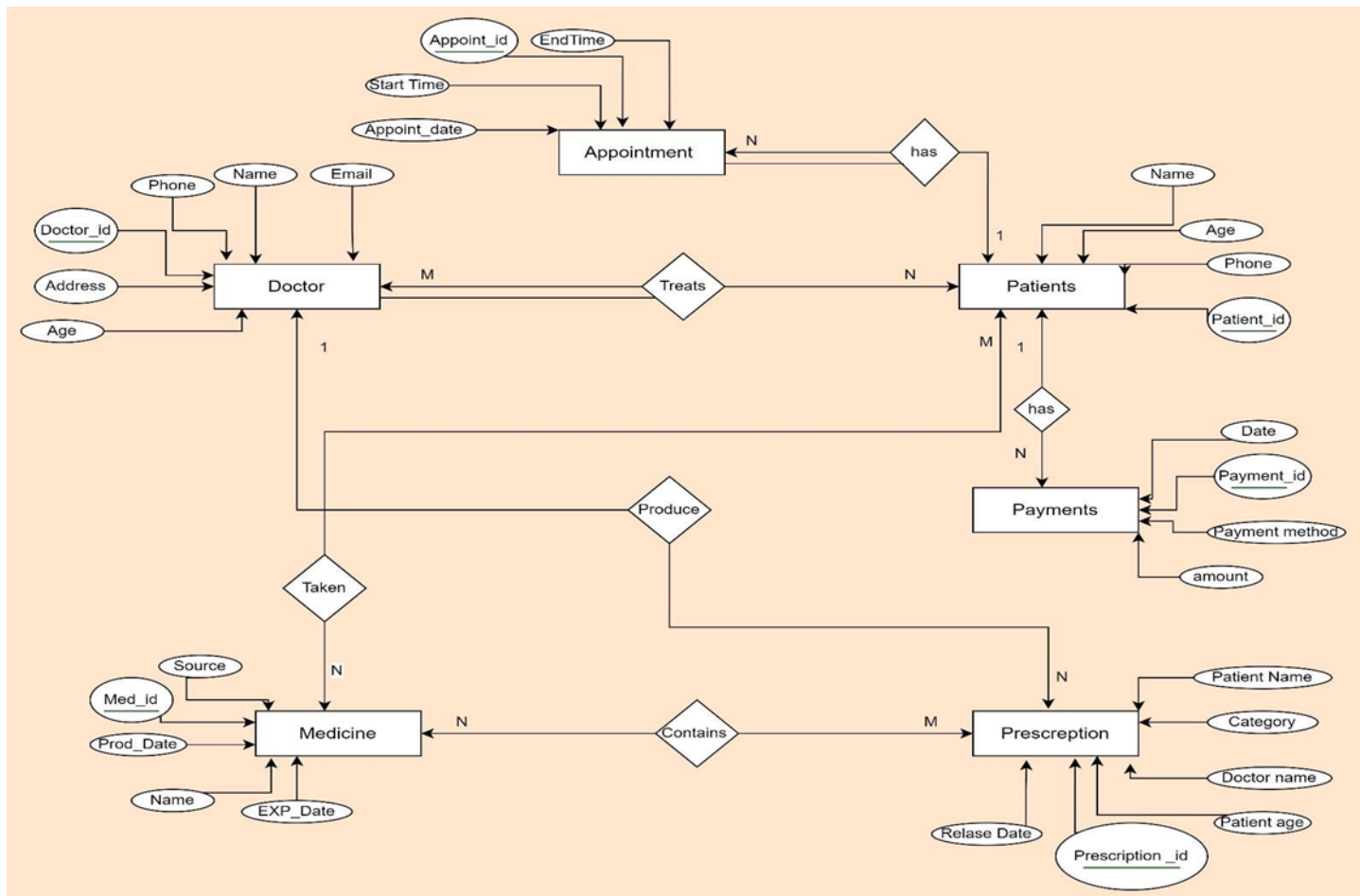
○ Each **patient** has several **financial payments** but each **payment** must be paid by one **patient**.

○ Each **prescription** contains one or more **medicines** and each **medicine** may exist in several **prescriptions**.

○ **Medicine** may be taken by several **patients** and the **patient** can take multiple **medicines** from the clinic.

Doctor	Doctor_id	Produce, treat
Patient	Patient_id	Has
Prescription	Precription_id	Contain
Payments	Payments_id	Has
Appointments	Appointments_id	Has
Medicine	Medicine_id	Take

ERD Diagram:



## Entity Relationship Diagram - Dental Clinic

