

## Create Relational Schema for the following project:

Here are the database requirements for a simple clinic:

### 1. Patients:

- The database should store information about patients.
- Each patient should have a unique identifier, a name, a date of birth, gender, contact information (phone number, email), and address.

### 2. Doctors:

- The database should store information about doctors.
- Each doctor should have a unique identifier, a name, specialization, a date of birth, gender, contact information (phone number, email), and address.

### 3. Appointments:

- The database should store information about appointments.
- Each appointment should have a unique identifier, a patient, a doctor, appointment date and time, and appointment status.
- Appointment Status:
  1. Pending: The appointment has been scheduled but has not yet occurred.
  2. Confirmed: The appointment has been confirmed by both the patient and the healthcare provider.
  3. Completed: The appointment has taken place as scheduled.
  4. Canceled: The appointment has been canceled either by the patient or the healthcare provider.
  5. Rescheduled: The appointment has been rescheduled for a different date or time.
  6. No Show: The patient did not show up for the appointment without canceling or rescheduling.

#### 4. Medical Records:

- The database should store medical records for patients.
- For each attended appointment there should be a medical record.
- Each medical record should have a unique identifier, a patient, a doctor, a description of the visit, diagnosis, prescribed medication, and any additional notes.

#### 5. Prescription:

- The database should store information about prescribed medications.
- For each medical record there should be at most one prescription.
- Each prescription should have a unique identifier, a medical record, medication name, dosage, frequency, start date, end date, and any special instructions.

#### 6. Payments:

- The database should store information about payments.
- Payment is per appointment.
- Each payment should have a unique identifier, a patient, a payment date, payment method, amount paid, and any additional notes.