🏥 Doctor Appointment Booking System

# 📄 Database Schema and ER Diagram

## 🧠 Core Entities

- Patient

- Doctor

- Appointment

- Employee

- Clinic / Hospital

- Payment

## 🗃️ Database Tables

### 1. Patients

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| patient\_id | INT (PK) | Unique patient ID |
| full\_name | VARCHAR | Patient’s full name |
| email | VARCHAR | Unique email |
| phone | VARCHAR | Phone number |
| gender | ENUM | Male, Female, Other |
| dob | DATE | Date of birth |
| created\_at | TIMESTAMP | Registration date |

### 2. Doctors

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| doctor\_id | INT (PK) | Unique doctor ID |
| full\_name | VARCHAR | Doctor’s full name |
| email | VARCHAR | Unique email |
| phone | VARCHAR | Phone number |
| Specialization  Timeslot | VARCHAR  Date | Name (e.g. Dental)  Date of the Slot |
| gender | ENUM | Male, Female, Other |
| clinic\_id | INT (FK) | Affiliated clinic/hospital |
| created\_at | TIMESTAMP | Registration date |

### 3. Appointments

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| appointment\_id | INT (PK) | Unique appointment ID |
| patient\_id | INT (FK) | Linked patient |
| doctor\_id | INT (FK) | Linked doctor |
| status | ENUM | Pending, Confirmed, Cancelled, etc. |
| reason | TEXT | Reason for the appointment |
| booked\_at | TIMESTAMP | Booking time |

### 4. Clinics / Hospitals

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| clinic\_id | INT (PK) | Unique ID |
| name | VARCHAR | Clinic name |
| address | VARCHAR | Clinic location |
| phone | VARCHAR | Contact number |
| created\_at | TIMESTAMP | Creation date |

### 5. Employee

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
|  |  |  |
| Employee \_id | INT (PK) | Unique ID |
| username | VARCHAR | Admin username |
| password\_hash | VARCHAR | Hashed password |
| email | VARCHAR | Email address |

### 6. Payments

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| payment\_id | INT (PK) | Unique ID |
| appointment\_id | INT (FK) | Linked appointment |
| amount | DECIMAL | Amount paid |
| method | VARCHAR | Payment method |
| paid\_at | TIMESTAMP | Payment date |

**Si fudud:**  
Waxaad leedahay **table React ah** oo hadda Patients u shaqaynaya,  
**haddana** waxaad rabtaa **table cusub** oo **Hospitals** u shaqaynaya, **la mid ah** sida PatientsTable uu yahay.

✅ Table React ah  
✅ Add / Edit / Delete / Search  
✅ Kaliya model-ka waa Hospitals, ma ahan Patients

**Soo koobid:**

* **Patients Table** → **Hospitals Table**
* patientId, fullName, email, phone, gender, dob, createdAt
* ➡️ Beddel
* clinic\_id, name, address, shortNumber, city, status, createdAt