**1. What information do we need to store about patients?**

* **Tables**: Patients
  + **Columns**:
    - PatientID (Primary Key): Unique identifier for each patient.
    - FirstName: Patient's first name.
    - LastName: Patient's last name.
    - DateOfBirth: Patient's date of birth.
    - Gender: Patient's gender (e.g., Male, Female, Other).
    - ContactNumber: Patient's contact number.
    - Email: Patient's email address.
    - Address: Patient's residential address.
    - EmergencyContact: Emergency contact number.
    - InsuranceInfo: Patient’s insurance details.
    - BloodType: Patient's blood type.
    - MedicalHistory: Brief description of the patient's medical history.
    - DateRegistered: Date when the patient registered.

**2. What information is needed about doctors?**

* **Tables**: Doctors
  + **Columns**:
    - DoctorID (Primary Key): Unique identifier for each doctor.
    - FirstName: Doctor's first name.
    - LastName: Doctor's last name.
    - Specialization: Doctor's medical specialty (e.g., Cardiologist, Dermatologist).
    - ContactNumber: Doctor's contact number.
    - Email: Doctor's email address.
    - Gender: Doctor’s gender.
    - YearsOfExperience: Number of years the doctor has been practicing.
    - Qualifications: Educational qualifications of the doctor.

**3. How do we track appointments between patients and doctors?**

* **Tables**: Appointments
  + **Columns**:
    - AppointmentID (Primary Key): Unique identifier for each appointment.
    - PatientID (Foreign Key): Refers to the PatientID from Patients.
    - DoctorID (Foreign Key): Refers to the DoctorID from Doctors.
    - AppointmentDate: The date of the appointment.
    - AppointmentTime: The time of the appointment.
    - ReasonForVisit: The reason why the patient is seeing the doctor.
    - Status: Status of the appointment (e.g., Scheduled, Completed, Cancelled).
    - Notes: Additional notes for the appointment.

**4. How do we manage patient medical records?**

* **Tables**: MedicalRecords
  + **Columns**:
    - RecordID (Primary Key): Unique identifier for the medical record.
    - PatientID (Foreign Key): Refers to the PatientID from Patients.
    - DoctorID (Foreign Key): Refers to the DoctorID from Doctors.
    - Diagnosis: Medical diagnosis given by the doctor.
    - TreatmentPlan: Plan for treatment or prescribed medications.
    - DateOfVisit: Date when the consultation took place.
    - TestResults: Results of any tests performed.
    - FollowUpDate: Date for the follow-up appointment, if any.

**5. What information is necessary to track prescriptions given to patients?**

* **Tables**: Prescriptions
  + **Columns**:
    - PrescriptionID (Primary Key): Unique identifier for the prescription.
    - RecordID (Foreign Key): Refers to the RecordID from MedicalRecords.
    - MedicationName: Name of the prescribed medication.
    - Dosage: The dosage of the medication (e.g., 500 mg).
    - Frequency: How often the medication should be taken (e.g., twice a day).
    - Duration: Duration for which the medication should be taken (e.g., 10 days).
    - Notes: Additional instructions or information regarding the medication.

**6. How do we manage billing information for patients?**

* **Tables**: Billing
  + **Columns**:
    - BillID (Primary Key): Unique identifier for the bill.
    - PatientID (Foreign Key): Refers to the PatientID from Patients.
    - Amount: Total amount to be paid.
    - BillingDate: Date the bill was created.
    - Status: Status of the bill (Paid, Unpaid, Pending).
    - PaymentMethod: The method of payment (e.g., Cash, Credit Card, Insurance).
    - Notes: Additional billing-related information.

**7. What user management functionality should be included in the system?**

* **Tables**: Users
  + **Columns**:
    - UserID (Primary Key): Unique identifier for the user.
    - Username: User's login username.
    - Password: Encrypted password for authentication.
    - Role: Role of the user (e.g., Admin, Doctor, Nurse, Receptionist).
    - FirstName: First name of the user.
    - LastName: Last name of the user.
    - ContactNumber: Contact number of the user.
    - Email: Email address of the user.

**8. How do we handle hospital staff information?**

* **Tables**: Staff
  + **Columns**:
    - StaffID (Primary Key): Unique identifier for each staff member.
    - FirstName: Staff member's first name.
    - LastName: Staff member's last name.
    - Role: Staff role (e.g., Nurse, Technician).
    - ContactNumber: Staff member’s contact number.
    - Email: Staff member’s email address.
    - Shift: Work shift (e.g., Morning, Evening).
    - DateHired: Date when the staff member was hired.

**9. How should emergency contacts be stored for patients?**

* **Tables**: EmergencyContacts
  + **Columns**:
    - ContactID (Primary Key): Unique identifier for the emergency contact.
    - PatientID (Foreign Key): Refers to PatientID from Patients.
    - ContactName: Name of the emergency contact.
    - Relationship: Relationship of the emergency contact to the patient (e.g., Spouse, Parent).
    - ContactNumber: Phone number of the emergency contact.
    - Email: Email address of the emergency contact.

**10. How do we store the hospital's inventory, such as medical supplies or equipment?**

* **Tables**: Inventory
  + **Columns**:
    - ItemID (Primary Key): Unique identifier for each item.
    - ItemName: Name of the medical item (e.g., gloves, syringes).
    - Quantity: Current stock of the item.
    - Price: Price per unit of the item.
    - Supplier: Supplier providing the item.
    - Category: Category of the item (e.g., consumables, equipment).
    - ReorderLevel: Minimum quantity level for restocking.
    - ExpirationDate: Expiry date of perishable medical supplies.

**11. How do we track lab test results for patients?**

* **Tables**: LabTests
  + **Columns**:
    - TestID (Primary Key): Unique identifier for the test.
    - PatientID (Foreign Key): Refers to the PatientID from Patients.
    - TestName: Name of the test performed (e.g., Blood Test, X-ray).
    - TestDate: Date the test was conducted.
    - Results: The outcome or results of the test.
    - DoctorID (Foreign Key): Refers to the DoctorID from Doctors.
    - Notes: Any additional notes or instructions related to the test.

**12. How do we track patient feedback or reviews for doctors?**

* **Tables**: PatientFeedback
  + **Columns**:
    - FeedbackID (Primary Key): Unique identifier for the feedback.
    - PatientID (Foreign Key): Refers to the PatientID from Patients.
    - DoctorID (Foreign Key): Refers to the DoctorID from Doctors.
    - FeedbackDate: Date when the feedback was given.
    - Rating: Patient’s rating of the doctor (e.g., 1-5 stars).
    - Comments: Additional comments or feedback from the patient.