

Hospital Management System ERD

Entities and Attributes:

1. Patients

- PatientID (Primary Key)
- Name
- DateOfBirth
- Gender
- Address
- Phone
- Email

2. Doctors

- DoctorID (Primary Key)
- Name
- Specialty
- Phone
- Email
- DepartmentID (Foreign Key)

3. Nurses

- NurseID (Primary Key)
- Name
- Phone
- Email

- DepartmentID (Foreign Key)

4. Appointments

- AppointmentID (Primary Key)
- PatientID (Foreign Key)
- DoctorID (Foreign Key)
- Date
- Time
- Reason

5. Departments

- DepartmentID (Primary Key)
- Name
- Location

6. Medical Records

- RecordID (Primary Key)
- PatientID (Foreign Key)
- DoctorID (Foreign Key)
- Date
- Diagnosis
- Treatment

7. Prescriptions

- PrescriptionID (Primary Key)
- RecordID (Foreign Key)

- Medicine
- Dosage
- StartDate
- EndDate

8. Rooms

- RoomID (Primary Key)
- RoomNumber
- Type
- Status

9. Bills

- BillID (Primary Key)
- PatientID (Foreign Key)
- Date
- TotalAmount
- Status

Relationships:

- Patients can have multiple Appointments (one-to-many).
- Doctors can have multiple Appointments (one-to-many).
- Patients can have multiple Medical Records (one-to-many).
- Doctors can create multiple Medical Records (one-to-many).
- Each Medical Record can have multiple Prescriptions (one-to-many).
- Departments can have multiple Doctors and Nurses (one-to-many).

- Patients can be assigned to a Room (one-to-one or one-to-many depending on hospital policy).
- Patients can have multiple Bills (one-to-many).