

# Phase 3: Data Modeling & Relationships

## Clinic Appointment Booking System Industry: Healthcare

**Project Type:** B2C Healthcare CRM Implementation

**Target Users:** Clinical Managers, Doctors, Administrative Staff

### 3.1 Standard Objects Usage

1. **Account Object → Healthcare Organization/Clinic**
    - **Purpose:** Represent clinic branches, partner hospitals, and insurance companies
    - **Record Types:**
      - Clinic Branch
      - Insurance Provider
      - Partner Hospital
  2. **Contact Object → Patients**
    - **Purpose:** Store all patient information
    - **Record Types:**
      - Active Patient
      - Prospective Patient
      - Inactive Patient
  3. **Case Object → Medical Cases**
    - **Purpose:** Manage medical consultations, treatments, and follow-ups
    - **Record Types:**
      - Consultation
      - Treatment
      - Emergency
      - Follow-up
  4. **Event Object → Appointments**
    - **Purpose:** Capture scheduled appointments
    - **Integration:** Salesforce Scheduler
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### 3.2 Custom Objects Creation

#### 3.2.1 Doctor Object

- **Object Label:** Doctor
- **Object Name:** Doctor

- **Plural Label:** Doctors
- **Record Name:** Doctor Number (Auto Number: DOC-{0000})

#### Custom Fields:

1. Doctor\_Name\_\_c (Text, 50) – Required
2. Specialization\_\_c (Picklist) – Required
  - Values: *Cardiology, Dermatology, Neurology, Pediatrics, General Medicine, Orthopedics*
3. License\_Number\_\_c (Text, 20) – Required, Unique
4. Phone\_\_c (Phone)
5. Email\_\_c (Email) – Required
6. Years\_of\_Experience\_\_c (Number, 2, 0)
7. Consultation\_Fee\_\_c (Currency, 10, 2) – Required
8. Available\_Days\_\_c (Multi-Select Picklist)
  - Values: *Monday–Sunday*
9. Start\_Time\_\_c (Time)
10. End\_Time\_\_c (Time)
11. Status\_\_c (Picklist) – Required
  - Values: *Active, Inactive, On Leave*
12. User\_\_c (Lookup → User)

### 3.2.2 Appointment Object

- **Object Label:** Appointment
- **Record Name:** Appointment Number (Auto Number: APT-{000000})

#### Custom Fields:

1. Patient\_\_c (Master-Detail → Contact) – Required
2. Doctor\_\_c (Master-Detail → Doctor) – Required
3. Appointment\_Date\_\_c (Date) – Required
4. Appointment\_Time\_\_c (Time) – Required
5. Duration\_Minutes\_\_c (Number, 3, 0; Default 30)
6. Appointment\_Type\_\_c (Picklist) – Required
  - Values: *Regular Consultation, Follow-up, Emergency, Specialist Consultation*
7. Status\_\_c (Picklist) – Required
  - Values: *Scheduled, Confirmed, In Progress, Completed, Cancelled, No Show*
8. Reason\_for\_Visit\_\_c (Text Area, 500)
9. Notes\_\_c (Long Text Area, 1000)
10. Reminder\_Sent\_\_c (Checkbox)
11. Created\_Via\_\_c (Picklist: *Phone, Online, Walk-in, System*)

### 3.2.3 Medical Case Object

- **Object Label:** Medical Case
- **Record Name:** Case Number (Auto Number: MED-{00000})

#### Custom Fields:

1. Patient\_\_c (Master-Detail → Contact) – Required
  2. Doctor\_\_c (Lookup → Doctor) – Required
  3. Related\_Appointment\_\_c (Lookup → Appointment)
  4. Case\_Type\_\_c (Picklist) – Required
    - Values: *Diagnosis, Treatment, Surgery, Therapy, Prescription*
  5. Chief\_Complaint\_\_c (Text Area, 500) – Required
  6. Diagnosis\_\_c (Text Area, 1000)
  7. Treatment\_Plan\_\_c (Long Text Area, 2000)
  8. Prescription\_\_c (Long Text Area, 1000)
  9. Case\_Priority\_\_c (Picklist: *Low, Medium, High, Critical*)
  10. Case\_Status\_\_c (Picklist) – Required
    - Values: *Open, In Treatment, Under Review, Resolved, Closed*
  11. Follow\_Up\_Required\_\_c (Checkbox)
  12. Follow\_Up\_Date\_\_c (Date)
  13. Case\_Date\_\_c (Date; Default Today)
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### 3.2.4 Bill Information Object

- **Object Label:** Bill Information
- **Record Name:** Bill Number (Auto Number: BILL-{00000})

#### Custom Fields:

1. Patient\_\_c (Master-Detail → Contact) – Required
2. Related\_Case\_\_c (Lookup → Medical Case)
3. Related\_Appointment\_\_c (Lookup → Appointment)
4. Doctor\_\_c (Lookup → Doctor)
5. Bill\_Date\_\_c (Date; Default Today, Required)
6. Consultation\_Fee\_\_c (Currency, 10, 2)
7. Additional\_Charges\_\_c (Currency, 10, 2)
8. Discount\_Amount\_\_c (Currency, 10, 2)
9. Total\_Amount\_\_c (Formula: Consultation\_Fee + Additional\_Charges – Discount\_Amount)
10. Amount\_Paid\_\_c (Currency, 10, 2)
11. Balance\_Amount\_\_c (Formula: Total\_Amount – Amount\_Paid)
12. Payment\_Status\_\_c (Picklist: *Pending, Partial, Paid, Overdue*)
13. Payment\_Method\_\_c (Picklist: *Cash, Card, Online Transfer, Insurance, Cheque*)

- 14. Insurance\_Claim\_Number\_\_c (Text, 30)
  - 15. Bill\_Status\_\_c (Picklist: *Draft, Sent, Paid, Cancelled*)
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## 3.3 Relationships Configuration

- **Master-Detail Relationships**
    - Patient (Contact) → Appointments (1:M)
    - Patient (Contact) → Medical Cases (1:M)
    - Patient (Contact) → Bills (1:M)
    - Doctor → Appointments (1:M)
  - **Lookup Relationships**
    - Doctor → Medical Cases
    - Doctor → Bills
    - Appointment → Medical Cases
    - Appointment → Bills
    - Medical Case → Bills
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## 3.4 Record Types & Page Layouts

### 3.4.1 Contact (Patient) Record Types

- 1. **Active Patient**
    - **Page Layout Sections:**
      - Personal Information
      - Medical History
      - Emergency Contact
      - Insurance Information
      - Related Lists: Appointments, Medical Cases, Bills
  - 2. **Prospective Patient**
    - **Page Layout:** Limited fields for inquiry stage
  - 3. **Inactive Patient**
    - For historical records and non-active patients
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### 3.4.2 Appointment Record Types

- 1. **Regular Appointment**
  - Standard consultation appointment
  - Basic appointment details only
- 2. **Emergency Appointment**

- For urgent medical situations
- Requires priority and immediate attention flag

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## Schema Builder

