Phase 3: Data Modeling & Relationships

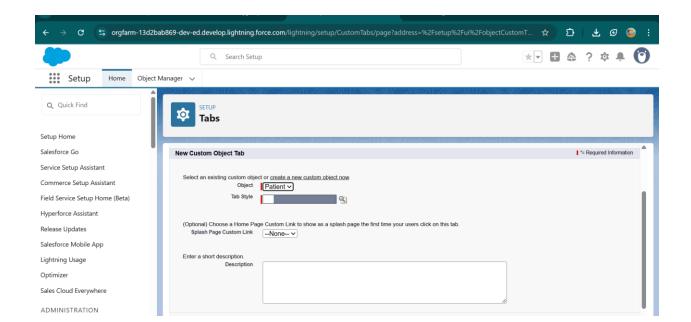
Step 1: Standard & Custom Objects

Six custom objects were created to store business-critical data:

- Patient Stores patient details such as name, age, gender, and medical history.
- Doctor Stores doctor information such as specialization, availability, and contact details.
- Appointment Stores appointment details including patient, doctor, date, time, and status.
- Prescription Stores prescribed medicines, dosage, and instructions linked to patients.
- Billing Tracks payment details, amount, and billing status for appointments.
- Medical Record Stores treatment history, lab reports, and diagnostic notes.

Steps followed:

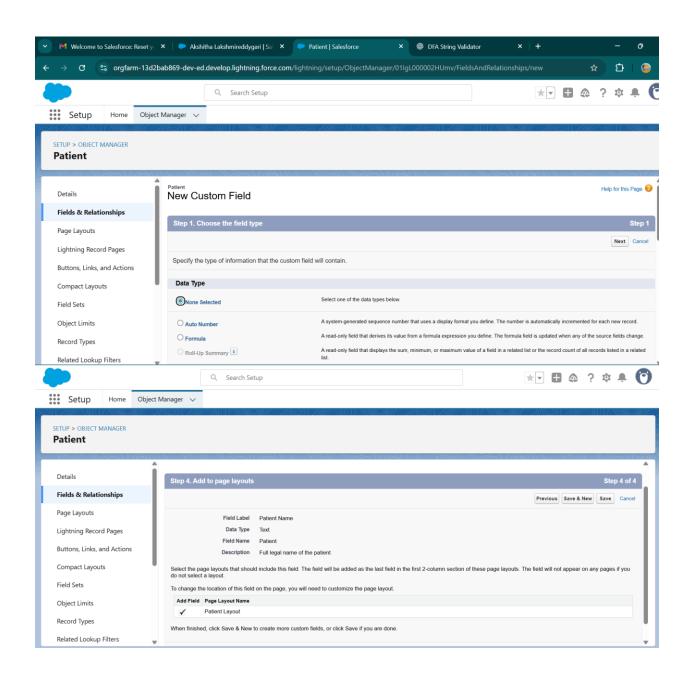
- Navigated to Setup → Object Manager → Create → Custom Object
- Provided label, name, and enabled reports/search
- Saved and created Tabs for each object



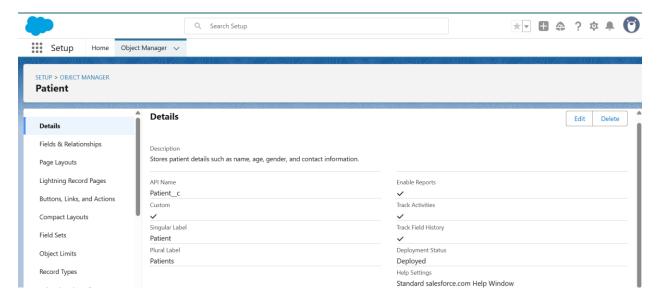
Step 2: Fields

Patient

- Patient Name (Text, 80)
- Age (Number, 3)
- Gender (Picklist: Male, Female, Other)
- Email (Email)
- Phone (Phone)
- Medical History (Long Text)
- Owner (Lookup → User/Group)

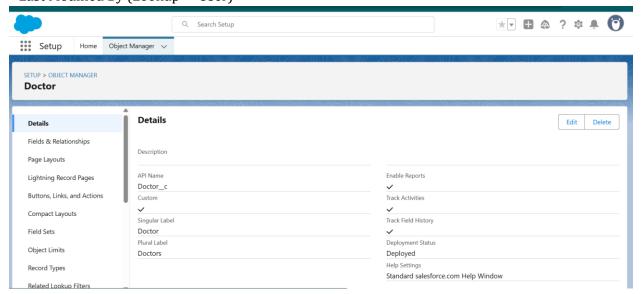


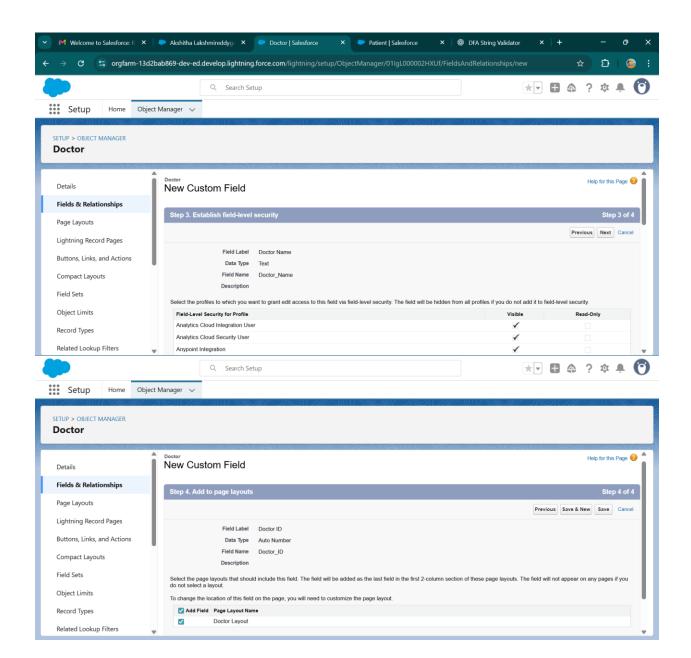
- Created By (Lookup → User)
- Last Modified By (Lookup → User)

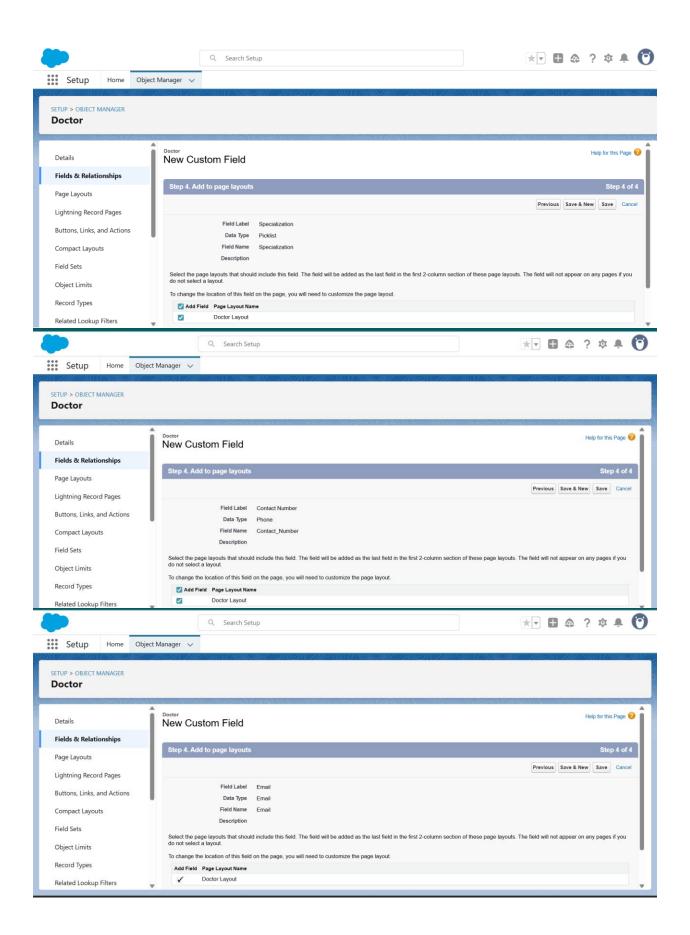


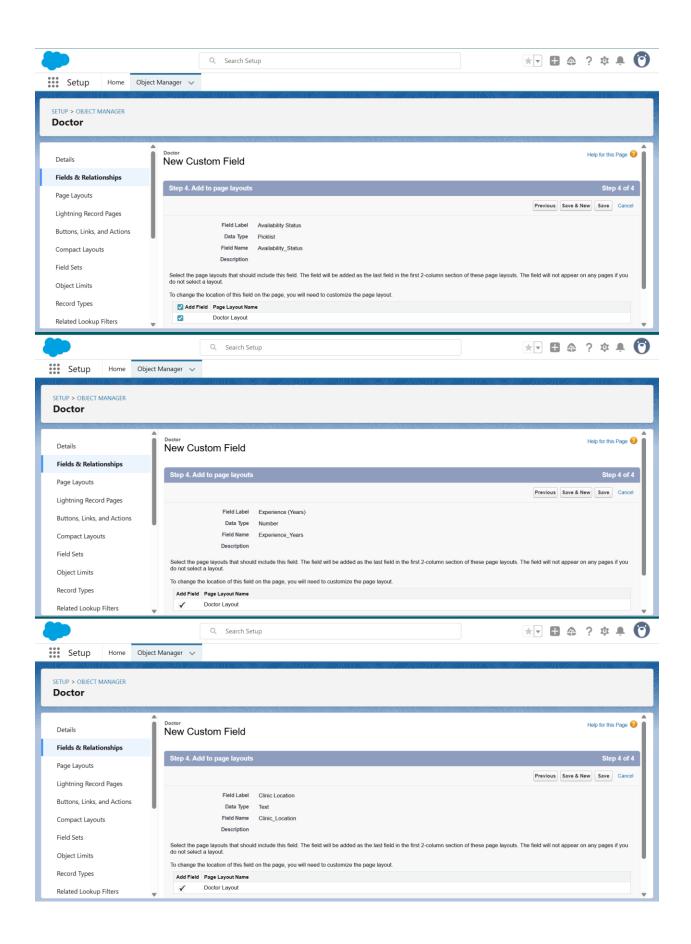
Doctor

- Doctor Name (Text, 80)
- Specialization (Text)
- Availability (Picklist: Available, Not Available)
- Phone (Phone)
- Email (Email)
- Owner (Lookup → User/Group)
- Created By (Lookup → User)
- Last Modified By (Lookup → User)









Appointment

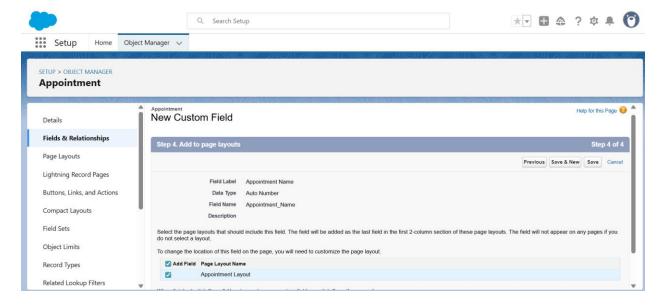
- Patient (Lookup → Patient)
- Doctor (Lookup → Doctor)
- Appointment Date (Date/Time)
- Appointment Status (Picklist: Scheduled, Completed, Cancelled)
- Notes (Long Text)

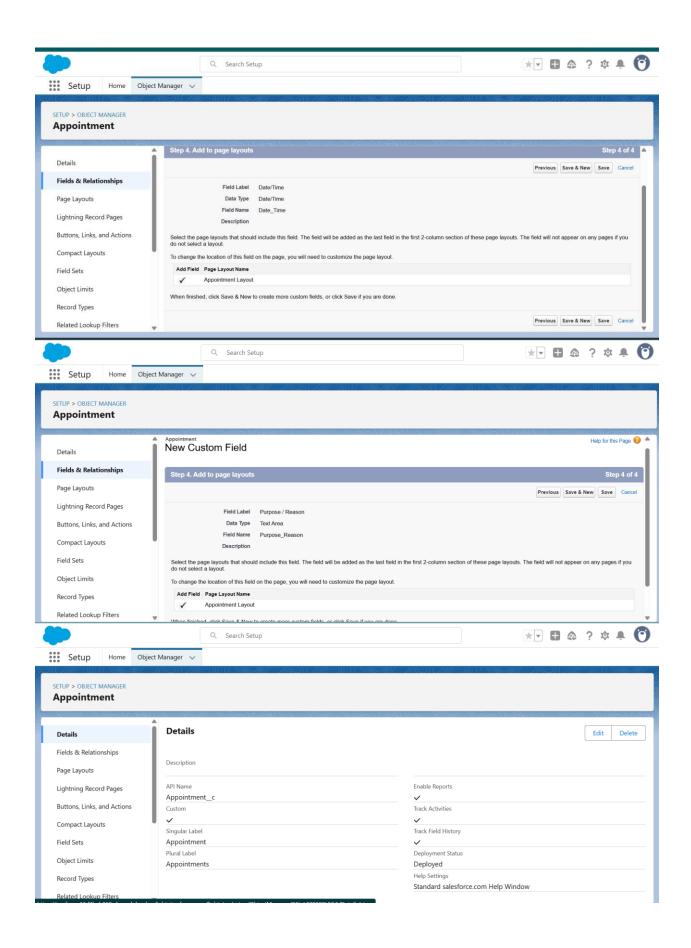
Billing

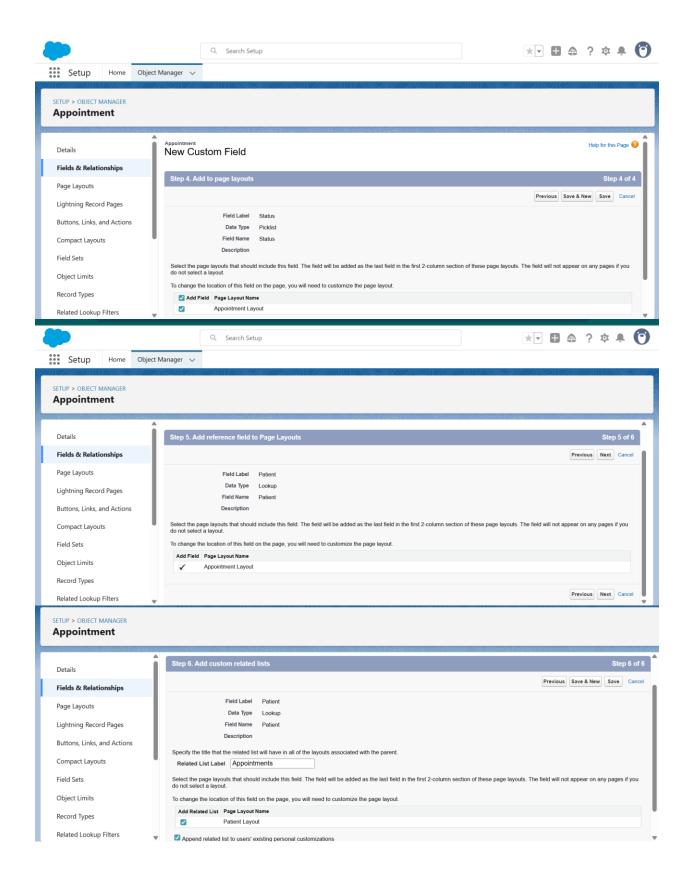
- Appointment (Lookup → Appointment)
- Amount (Currency)
- Payment Status (Picklist: Pending, Paid, Refunded)
- Billing Date (Date)

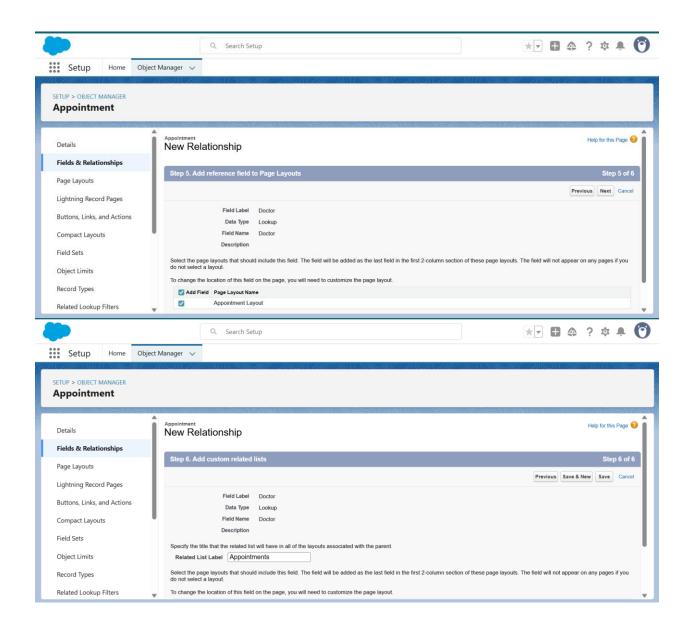
Medical Record

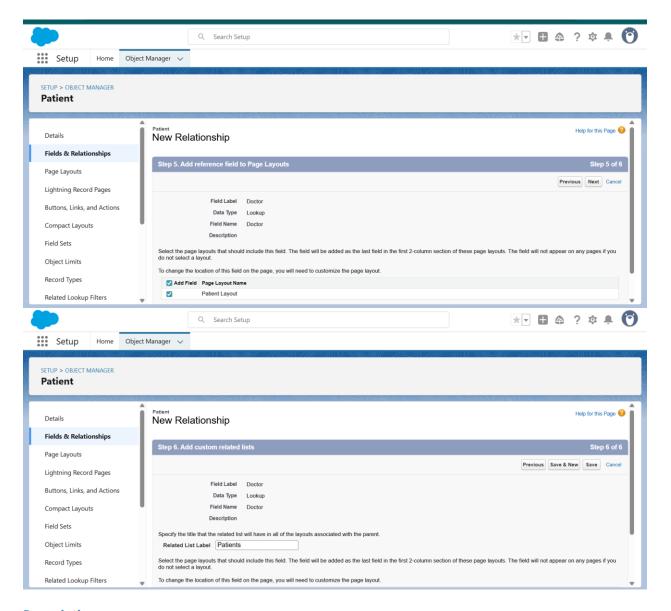
- Patient (Lookup → Patient)
- Doctor (Lookup → Doctor)
- Record Type (Picklist: Diagnosis, Lab Report, Treatment)
- Record Details (Long Text)
- Record Date (Date)











Prescription

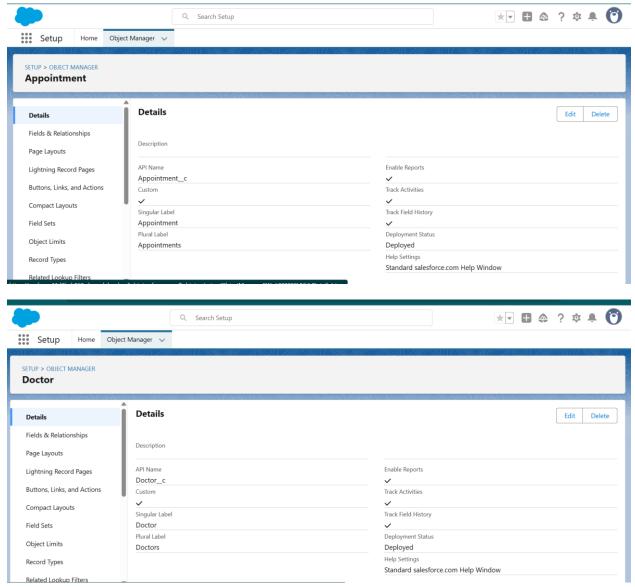
- Patient (Lookup → Patient)
- Doctor (Lookup → Doctor)
- Medicine Name (Text)
- Dosage (Text)
- Instructions (Long Text)

Step 3: Record Types

- Appointment → Record Types: Online Appointment, In-Clinic Appointment
- Medical Record → Record Types: Diagnosis Record, Treatment Record

Step 4: Page Layouts

- Patient layout shows: Patient Name, Age, Gender, Medical History.
- Doctor layout shows: Doctor Name, Specialization, Availability.



- Appointment layout shows: Patient, Doctor, Date, Status.
- Prescription layout shows: Medicines, Dosage, Instructions.

Step 5: Compact Layouts

- Patient Compact Layout: Name, Age, Gender, Phone.
- Doctor Compact Layout: Name, Specialization, Availability.
- Appointment Compact Layout: Patient, Doctor, Date, Status.

Step 6: Schema Builder

- Visualizes all objects and their relationships.
- Shows custom and standard objects, field types, and lookup/master-detail links.
- Helps stakeholders understand data flow and connections.

Step 7: Lookup vs Master-Detail vs Hierarchical Relationships

- Lookup Relationship: Simple connection between two objects.
 Example: Appointment → Patient.
- Master-Detail Relationship: Strong dependency, parent controls child record.
 Example: Prescription → Patient.
- Hierarchical Relationship: Special relationship for User object only.
 Example: Manager → Employee (not used heavily here).

Step 8: Junction Objects

- Used for many-to-many relationships.
- Example: Patient ↔ Doctor.
 A single patient can consult multiple doctors, and a doctor can treat multiple patients.