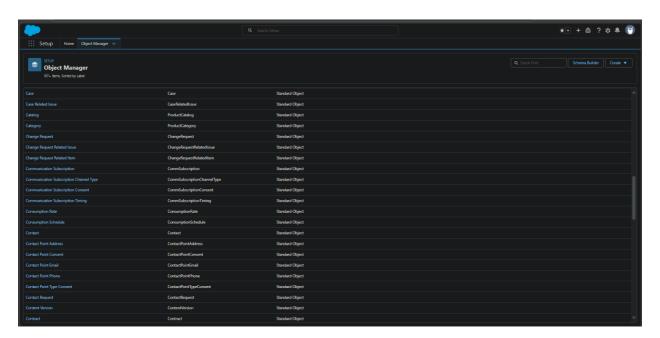
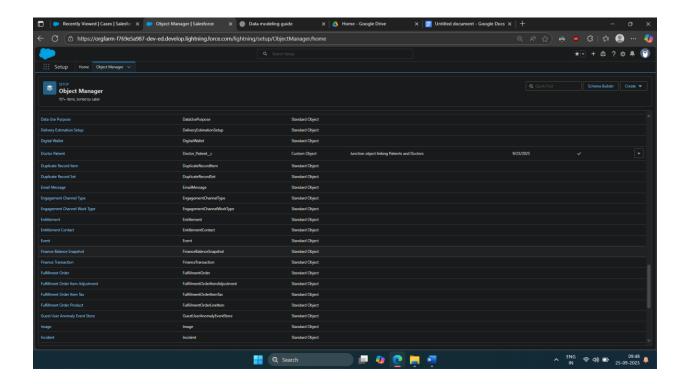
Phase 3: Data Modeling & Relationships

Standard & Custom Objects

- Standard Objects Used:
 - o Contact → customized as Patient
 - o Case → used as Treatment Record
 - \circ **Event** \rightarrow used for **Appointments**
- Custom Object Created:
 - DoctorPatient (Junction Object) → connects Patients (Contacts) with Doctors (Users)





Fields

• Custom Fields in Contact (Patient):

- Patient ID (Auto Number)
- Age (Number)
- Gender (Picklist)
- \circ Preferred Doctor (Lookup \rightarrow User)
- Medical History (Long Text Area)

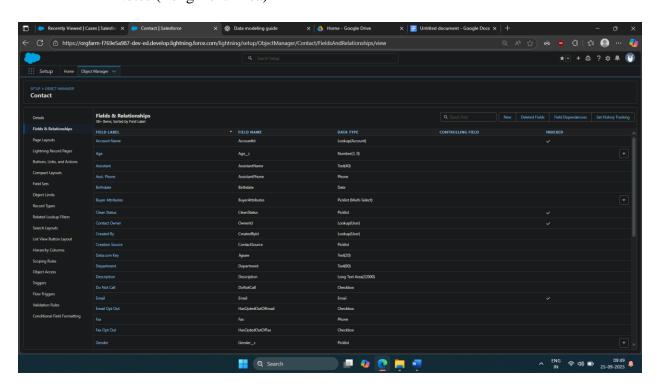
• Custom Fields in Case (Treatment):

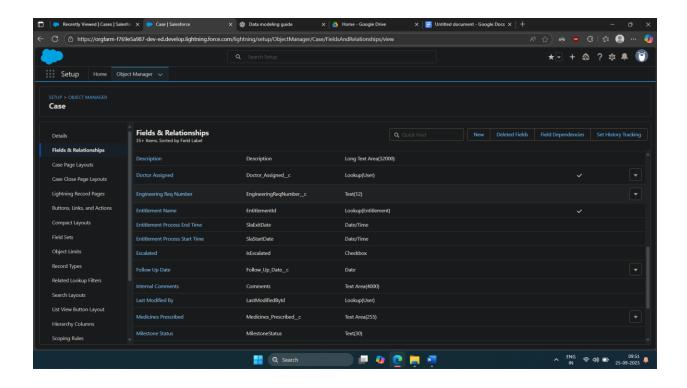
- Treatment Notes (Long Text Area)
- o Medicines Prescribed (Text Area)

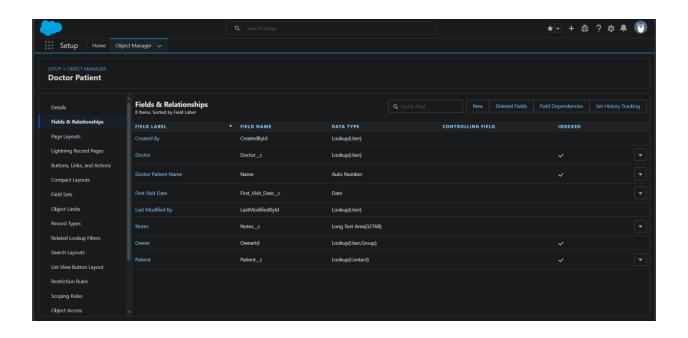
- o Doctor Assigned (Lookup → User)
- o Follow Up Date (Date)

• Fields in DoctorPatient (Junction Object):

- o Patient (Lookup → Contact)
- $\circ \quad \text{Doctor (Lookup} \rightarrow \text{User)}$
- First Visit Date (Date)
- o Notes (Long Text Area)

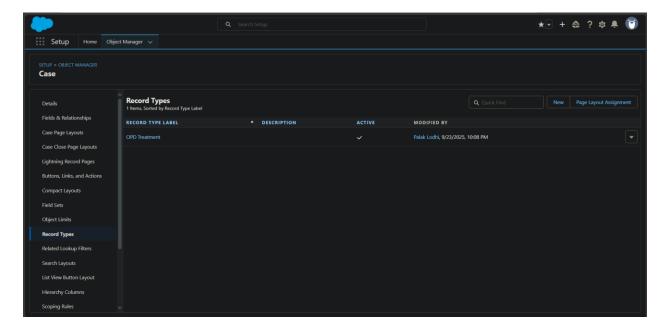






Record Types

- Case Record Types:
 - Created **OPD Treatment** record type for outpatient treatments.
 - Assign proper page layout (with custom fields) to this record type.



Page Layouts

- Contact Layout (Patient):
 - Sections Added:
 - Patient Details → Patient ID, Age, Gender
 - Medical Info → Medical History, Preferred Doctor
 - o Related Lists: Cases (Treatments), DoctorPatient

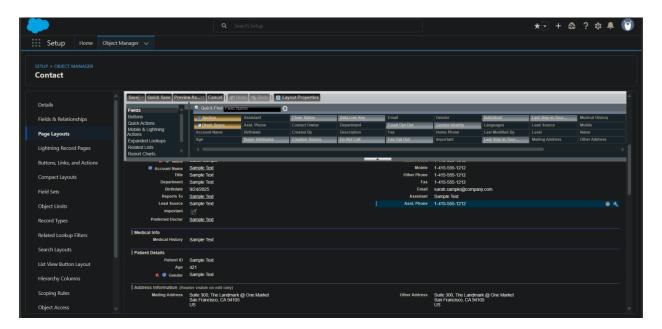
o Quick Actions: New Appointment, New Task, Log a Call

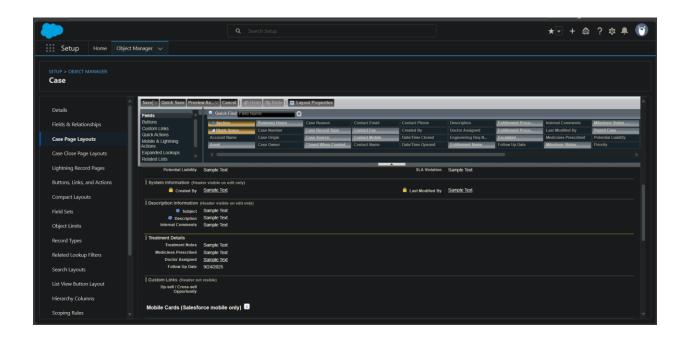
• Case Layout (Treatment):

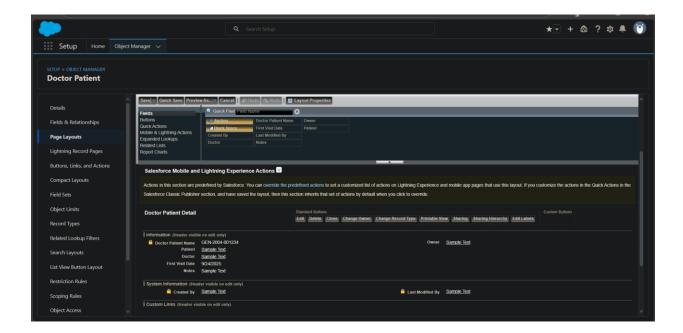
Fields grouped under **Treatment Info:** Treatment Notes, Medicines Prescribed,
Doctor Assigned, Follow Up Date

• DoctorPatient Layout:

Fields: Patient, Doctor, First Visit Date, Notes

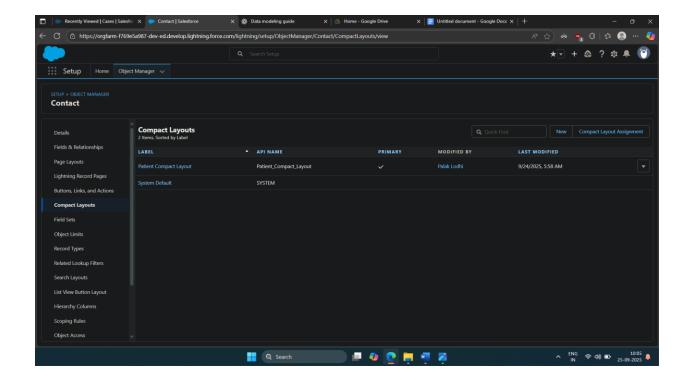


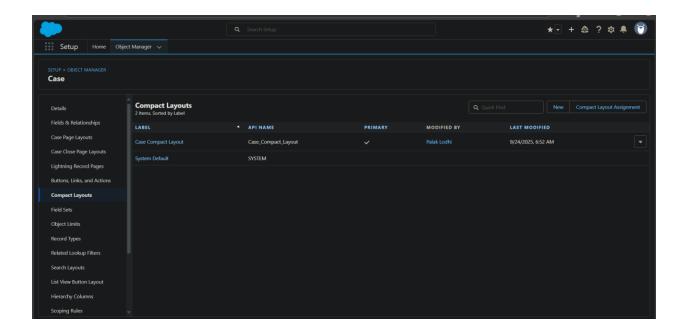




Compact Layouts

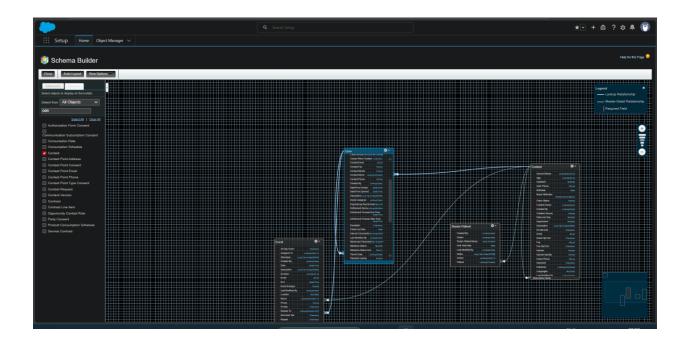
- Contact Compact Layout (Patient Compact Layout):
 - o Fields: Name, Patient ID, Age, Preferred Doctor
- Case Compact Layout (OPD Treatment):
 - o Fields: Case Number, Subject, Doctor Assigned, Follow Up Date





Schema Builder

- Objects Selected: Contact, Case, Event, DoctorPatient
- Shows relationships:
 - Contact ↔ Case (standard lookup)
 - Contact ↔ DoctorPatient (lookup)
 - Doctor ↔ DoctorPatient (lookup)
 - Event ↔ Contact (standard relationship for appointments)

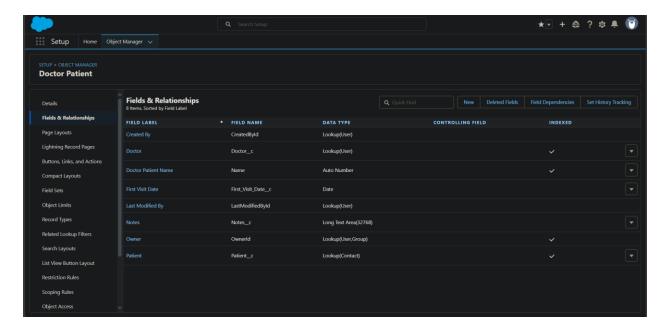


Lookup vs Master-Detail vs Hierarchical Relationships

- Lookup Relationship: Used in this project.
 - o Example: Contact (Patient) ↔ DoctorPatient
- **Master-Detail Relationship:** Not used (because we didn't want parent record deletion to delete related records).
- **Hierarchical Relationship:** Only possible for User object → not required here.

Junction Object

- **DoctorPatient** created to link multiple doctors with multiple patients.
- Without this, one patient could only be assigned to one doctor.



External Objects

In Salesforce, **External Objects** are similar to custom objects, but they are used to connect Salesforce with data that exists **outside of Salesforce** (for example, in another database or system). Instead of storing the data inside Salesforce, external objects **reference data stored in external systems** through Salesforce Connect.

Why We Did Not Use External Objects in This Project:

- Our hospital management project focuses only on **internal data** stored in Salesforce (Patients, Doctors, Appointments, Treatments).
- We are not connecting to any **external systems** like laboratory software, billing systems, or third-party databases.
- Therefore, External Objects are not required for this project.