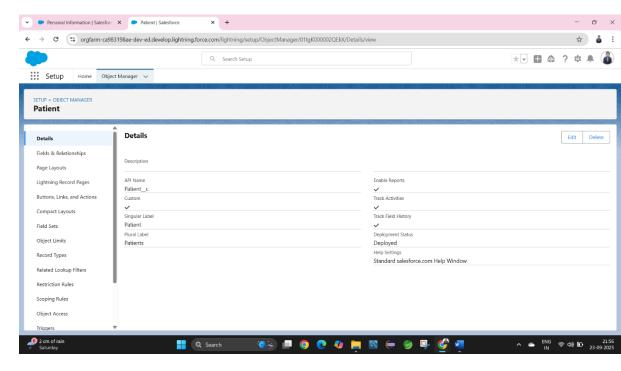
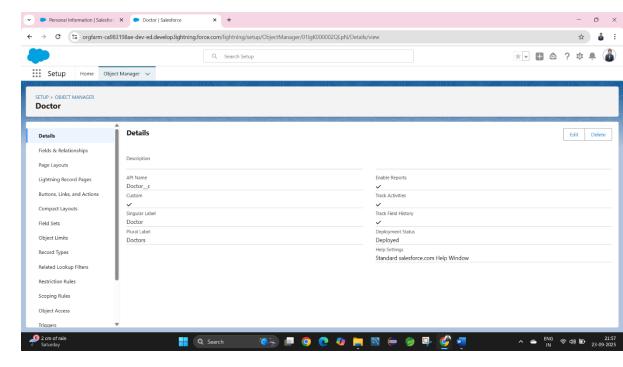
MediAid Healthcare Project-

Phase 3: Data Modeling & Relationships

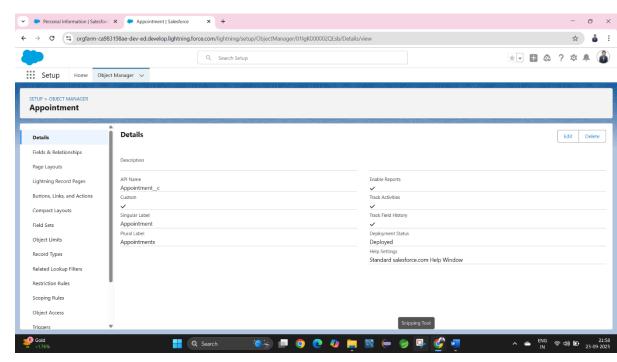
- 1. Standard & Custom Objects
 - Standard Objects (provided by Salesforce):
 - User → Doctors, Nurses, Patients, Admins.
 - Account → Hospitals or Clinics.
 - Contact → Individual patients or caregivers.
 - o **Case** → Patient Issues, Complaints, or Medical Support tickets.
 - Custom Objects (specific to MediAid):
 - o **Patient_c** → Stores patient details (DOB, Gender, Contact, Blood Group).



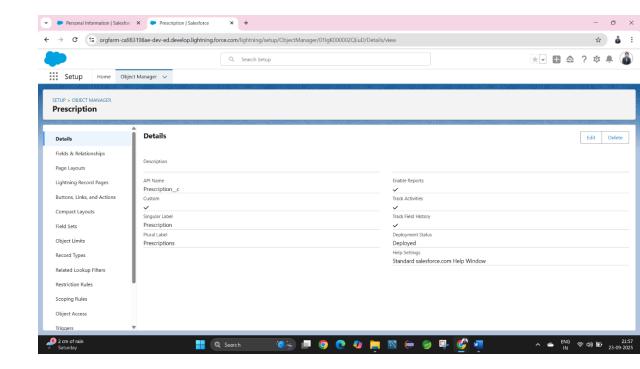
o **Doctor__c** → Stores doctor details (Specialization, Availability, Qualification).



Appointment_c → Links Patients & Doctors, tracks date/time/status.



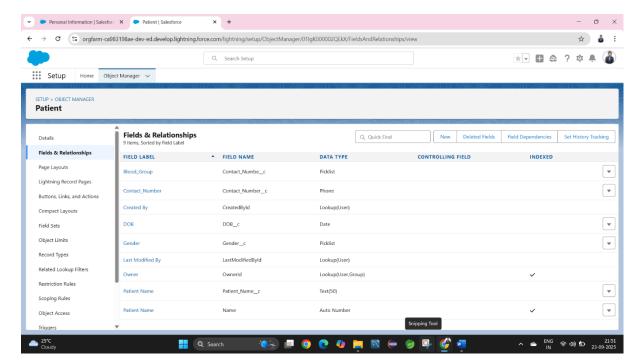
○ Prescription__c → Stores prescribed medicines, dosage, and duration.



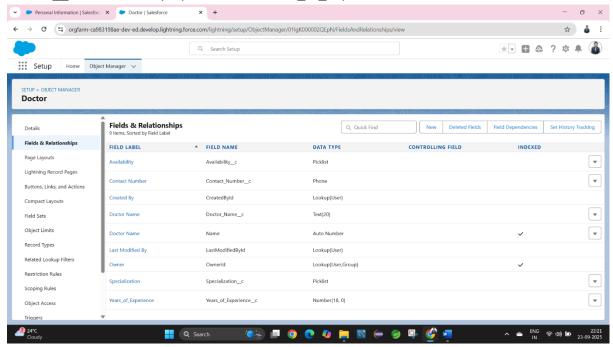
2. Fields

Each object will have **standard fields** (Name, CreatedDate, etc.) and **custom fields**. Examples:

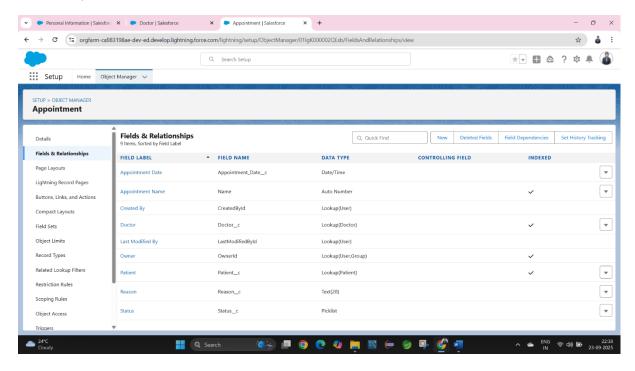
Patient__c → DOB, Gender, Contact Number. Blood Group,etc



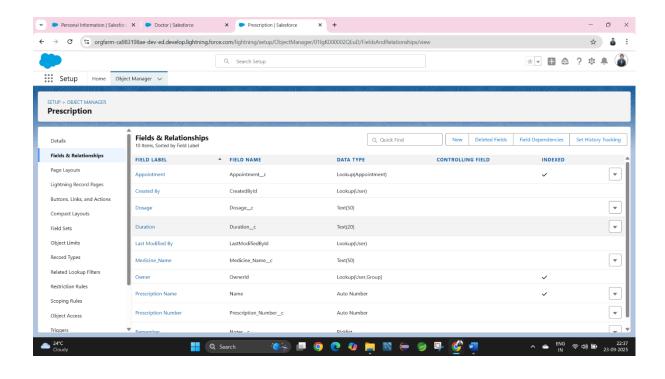
Doctor__c → Availability, Specialization, Year_of_experience,etc



 Appointment__c → Appointment_Date, Status (Scheduled, Completed, Cancelled), Doctor, Patient, etc



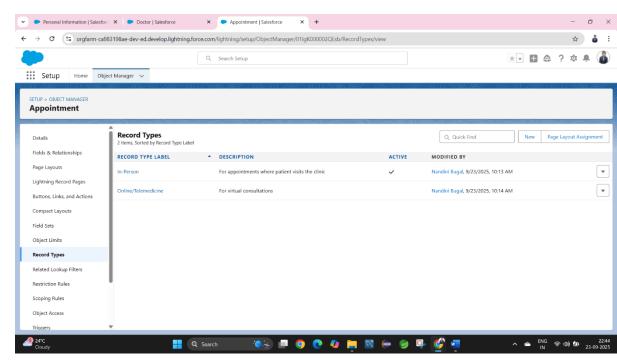
Prescription__c → Medicine_Name__c, Dosage__c, Notes



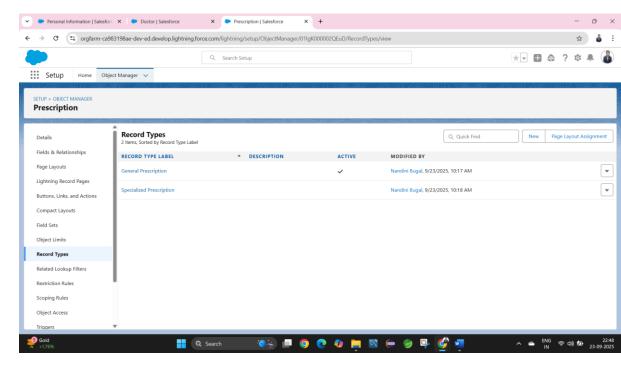
3. Record Types

Used when different categories of the same object need different layouts/workflows.

- Appointment__c:
 - o In-person
 - o Online/Telemedicine



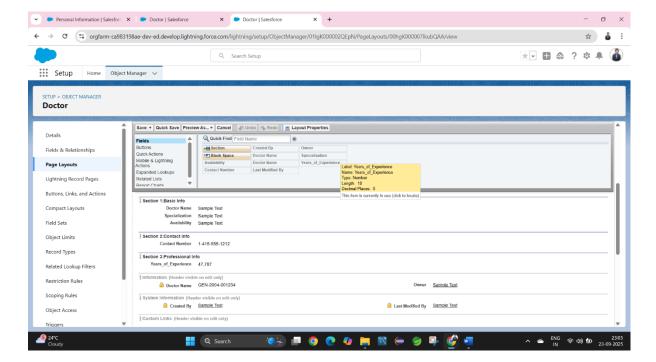
- Prescription__c:
 - o General Prescription
 - Specialized Prescription (e.g., for chronic diseases).



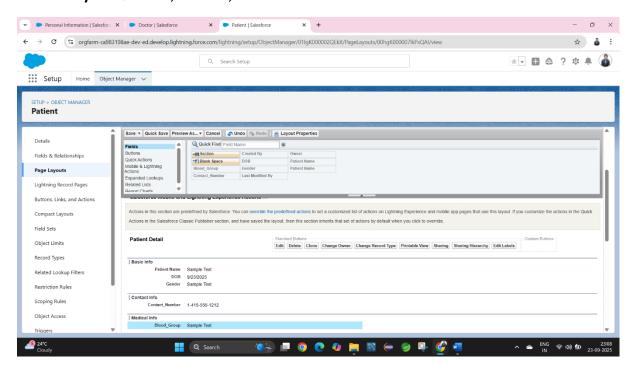
4. Page Layouts

Define which fields appear for each record type.

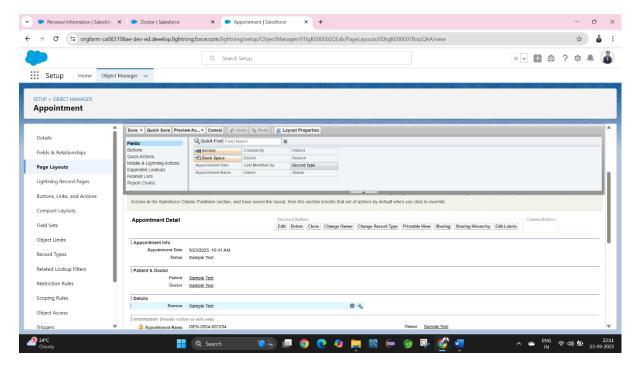
• **Doctor Layout** → Basic Info ,Contact info, Professional Info



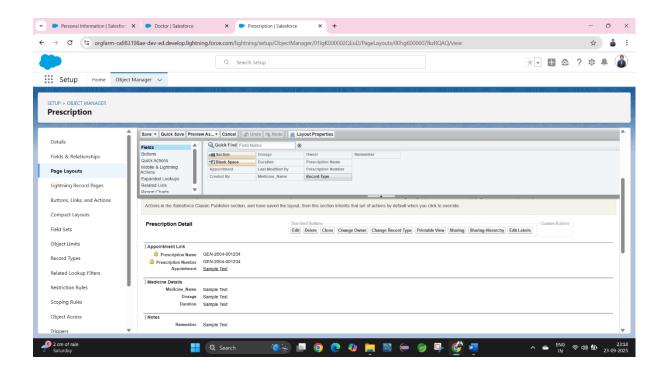
Patient Layout → Basic ,Contact ,Medical.



Appointment Layout → Appointment, Patient & Doctor, Details.



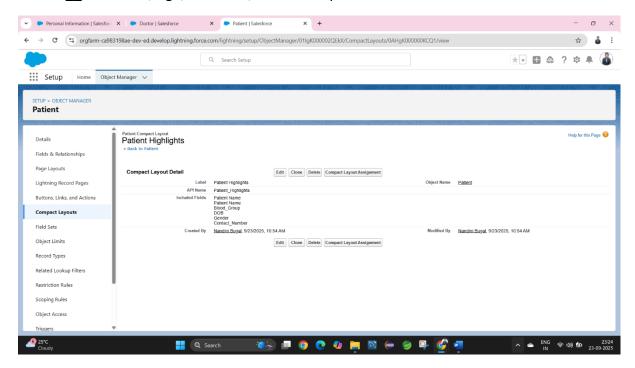
• **Prescription Layout** → Linked to Appointment, Medicine, Notes.



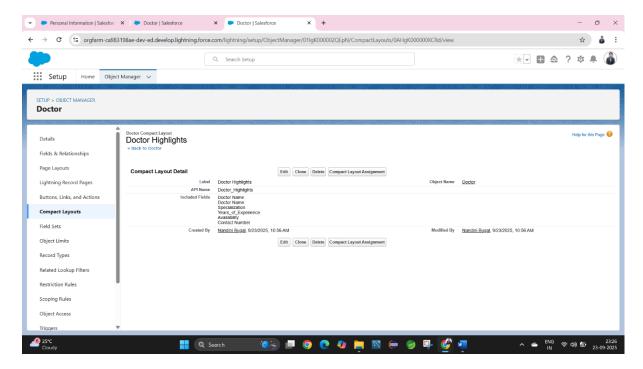
5. Compact Layouts

Show key fields in highlights panel (top of record page).

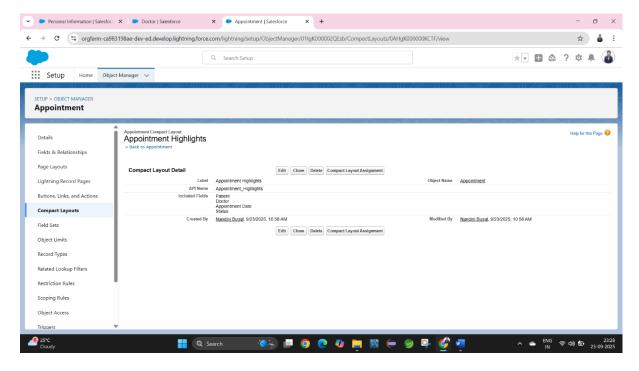
Patient__c → Name, Age, Health ID, Blood Group.



• **Doctor__c** → Name, Specialization, Availability.



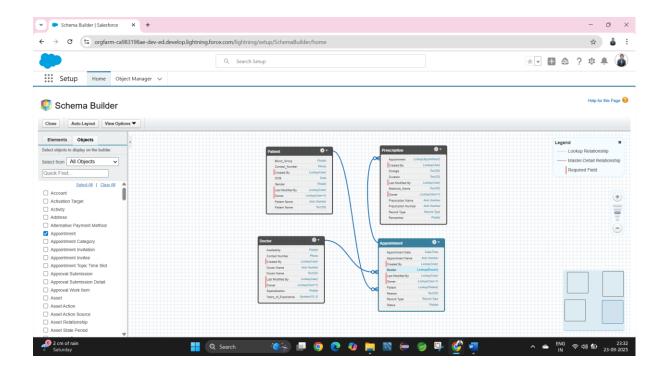
• Appointment_c → Patient Name, Doctor Name, Date, Status.



6. Schema Builder

Visual tool to design your MediAid data model:

- Drag and drop to show relationships between Patient, Doctor, Appointment, etc.
- Helps verify lookup & master-detail connections.



7. Lookup vs Master-Detail vs Hierarchical Relationships

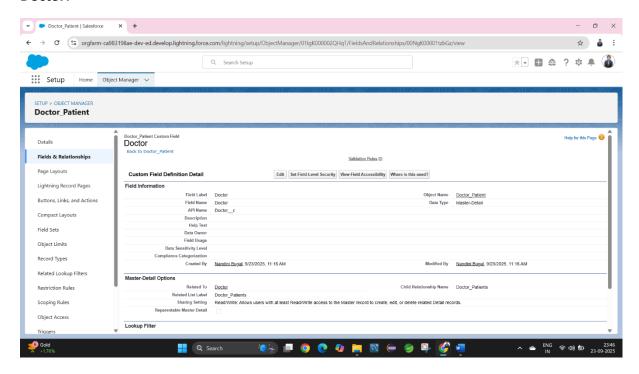
- **Lookup** → Loose connection (can exist without parent).
 - Example: Appointment → Doctor (appointment can exist even if doctor changes).
- Master-Detail → Strong connection (child record depends on parent).
 - Example: Prescription → Appointment (if appointment is deleted, prescription is deleted).
- Hierarchical → Only for User object.
 - Example: Doctor → Doctor (Supervisor) One Doctor (senior) supervises another Doctor (junior).

8. Junction Objects

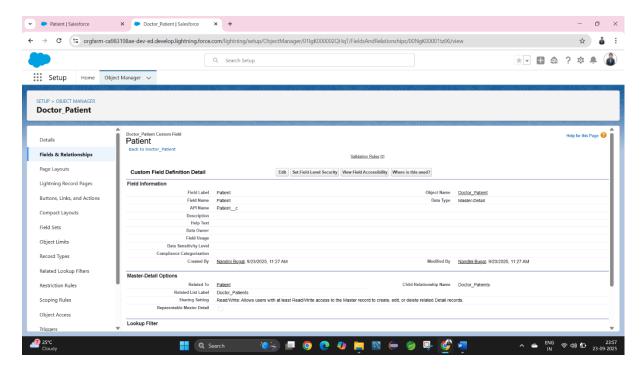
For many-to-many relationships.

- Example: Doctor_Patient__c (Junction Object).
 - One Patient can consult many Doctors.
 - One Doctor can treat many Patients.
- Junction object stores → Patient ID + Doctor ID + Additional info (First Visit Date, Consultation Type).

• Doctor:



Patient:



9. External Objects

Used to **connect with external healthcare systems/databases** without storing data in Salesforce.

- Example: Lab Reports stored in an external Hospital Management System (HMS) →
 can be accessed in Salesforce as External Object: Lab_Report_x.
- Use Salesforce Connect to fetch external patient insurance or diagnostic data.

