SafeCity Salesforce Project:

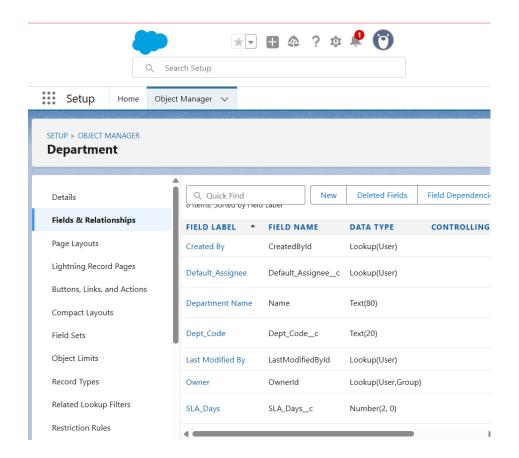
Phase 3: Data Modeling & Relationships

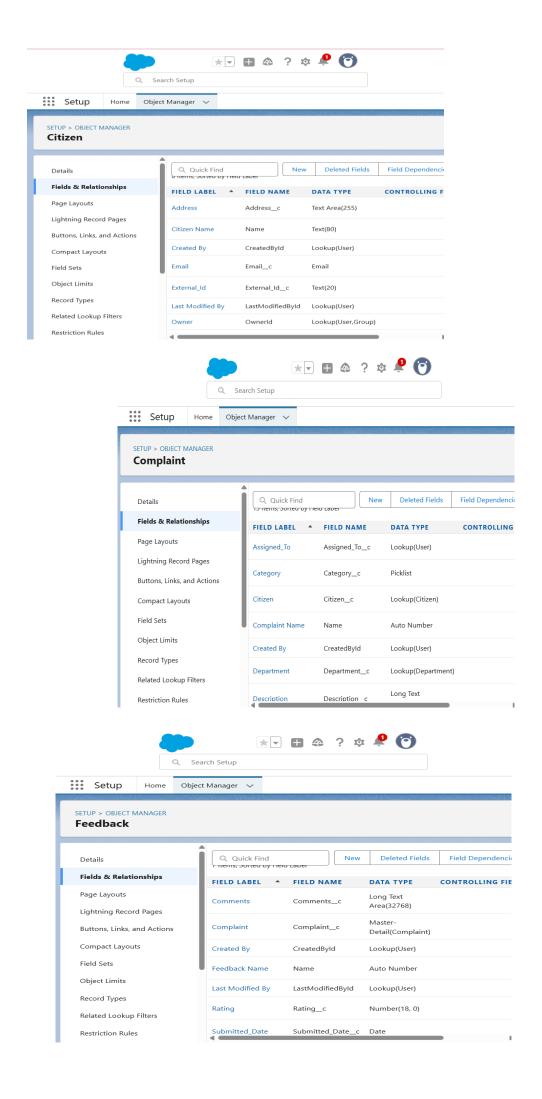
1. Custom Objects Created

- Citizen__c
 - o Fields: Email, Phone, Address, External ID
- Department__c
 - o Fields: Type (Picklist), SLA_Days, Default_Assignee (Lookup to User), Dept_Code
- Complaint c
 - Fields: Title, Description, Status, Priority, Category, Reported Date, Citizen (Lookup),
 Department (Lookup), Assigned_To (Lookup), SLA_Due_Date, Resolution_Date,
 Resolution_Notes
- Feedback__c
 - Fields: Rating, Comments, Submitted Date, Complaint (Master-Detail)

2. Relationships

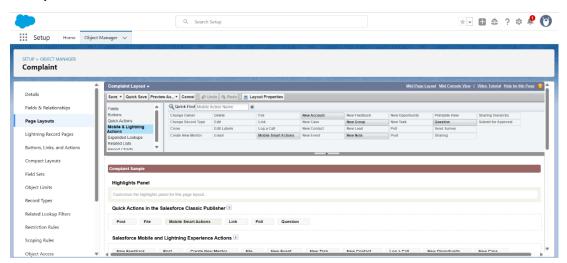
- Citizen → Complaint: Lookup (1 Citizen → Many Complaints)
- Department → Complaint: Lookup (1 Department → Many Complaints)
- Complaint → Feedback: Master-Detail (1 Complaint → Many Feedback)

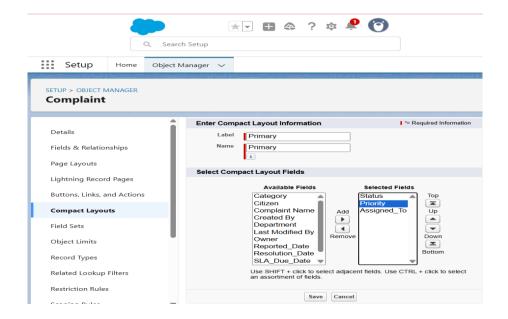




3. Page Layouts & Record Pages

- Complaint Layout includes:
 - Header (Complaint Number, Status, Priority)
 - Reporter Details (Citizen, Reported Date)
 - Assignment (Department, Assigned To, SLA)
 - Resolution section (Resolution Notes, Date)
 - Related Lists: Feedback, Activities, Notes
- Lightning Record Page customized with:
 - Highlights Panel
 - Path (for Status)
 - Related List Feedback
 - Quick Action: New Feedback



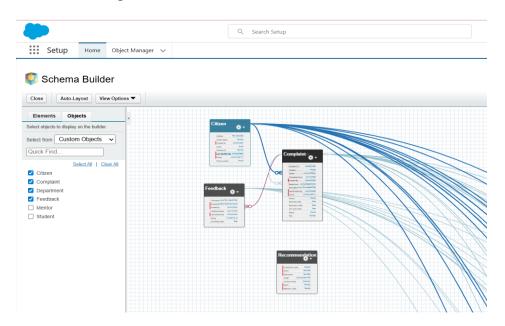


4. Schema Builder

Visual diagram created showing object relationships:

- Citizen → Complaint → Feedback
- Department → Complaint

This schema confirms the logical data model.



5.Sharing Rules

Complaint__c Sharing Rules

Rule Name	Criteria	Shared With	Access Level
Share_Pothole_Complaints	Categoryc = "Pothole"	Role: Department Staff (Roads)	Read/Write
Share_WaterLeak_Complaints	Categoryc = "Water Leak"	Role: Department Staff (Water)	Read/Write
Share_PowerOutage_Complaints	Categoryc = "Power Outage"	Role: Department Staff (Electricity)	Read/Write
Share_Garbage_Complaints	Categoryc = "Garbage"	Role: Department Staff (Sanitation)	Read/Write
Share_StreetLight_Complaints	Categoryc = "Street Light"	Role: Department Staff (Electricity)	Read/Write

Citizen__c Sharing Rules

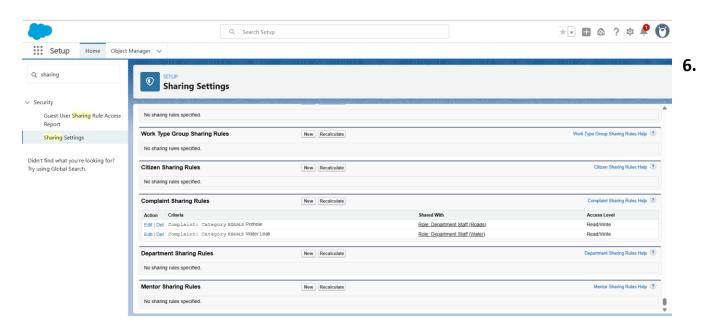
- No sharing rules created.
- Staff only access Citizens via their related complaints.
- This ensures citizen privacy is maintained.

Department__c Sharing Rules

- Department__c OWD = Public Read Only.
- No sharing rules required (all staff can see departments).

Feedback__c Sharing Rules

- Controlled by Parent (Complaint).
- Visibility flows automatically from Complaint_c access.



6.Testing Summary

- Created sample Departments (Roads, Water), Citizens, Complaints, and Feedback
- Verified related lists display correctly
- Checked OWD + Sharing Rules (staff see only their dept complaints)
- Supervisor can see all complaints via role hierarchy