Phase 3: Data Modeling & Relationships

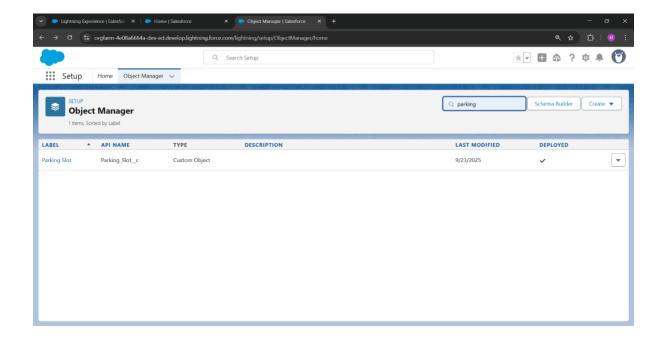
Goal:

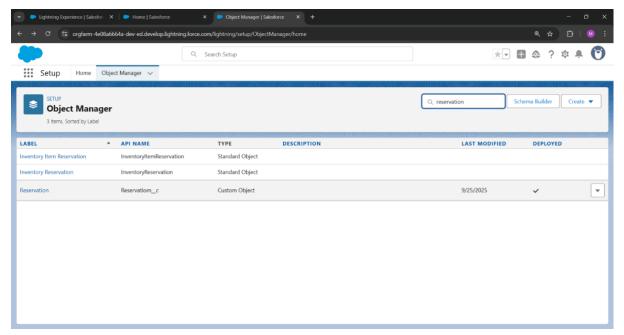
The goal of this phase is to design the **data structure** of the Parking Slot Reservation System in Salesforce.

We create objects, fields, and relationships to connect **Employees (Contacts)**, **Parking Slots**, and **Reservations**.

♦ Step 1: Create Custom Objects

- 1. Go to Setup → Object Manager → Create → Custom Object.
- 2. Create the following objects:
 - Parking Slot
 - Record Name: Auto Number (e.g., SLOT-{000})
 - Reservation
 - Record Name: Auto Number (e.g., RES-{000})

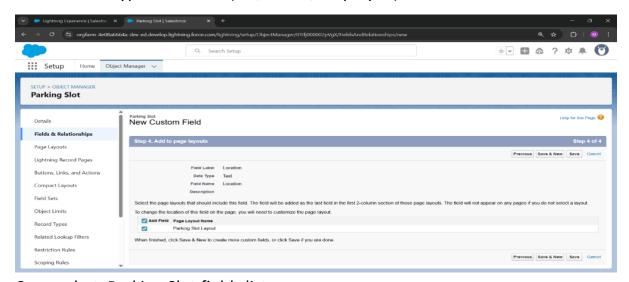




Screenshots: Object Manager showing Parking Slot and Reservation objects.

Step 2: Fields in Parking Slot Object

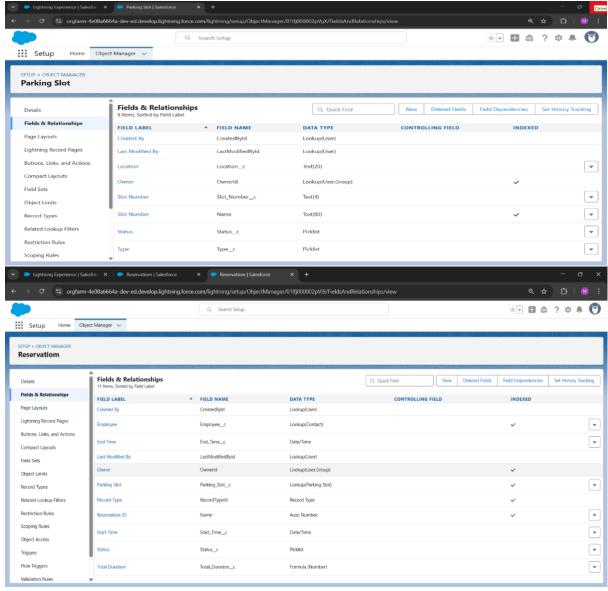
- 1. Open Parking Slot → Fields & Relationships → New.
- 2. Create the following fields:
 - Slot Number → Text
 - o Location → Text
 - Status → Picklist (Available, Occupied, Blocked, Maintenance)
 - Type → Picklist (VIP, Guest, Employee).



Screenshot: Parking Slot fields list page.

Step 3: Fields in Reservation Object

- 1. Open Reservation → Fields & Relationships → New.
- 2. Create the following fields:
 - o Start Time → Date/Time
 - o End Time → Date/Time
 - Status → Picklist (Pending, Confirmed, Cancelled, Completed)
 - Total Duration → Formula (End Time Start Time)
 - o Employee → Lookup to Contact
 - o Parking Slot → Lookup to Parking Slot



Screenshot: Reservation fields list page.

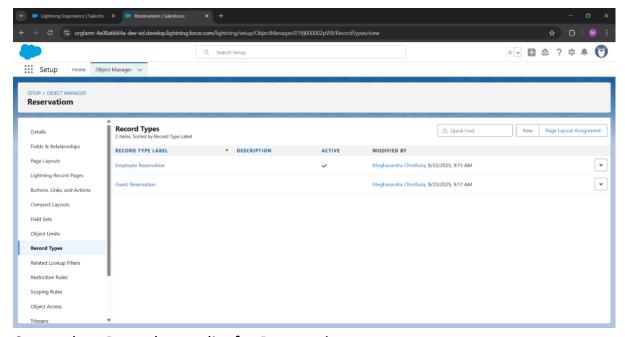
Step 4: Define Relationships

- Reservation → Parking Slot = Lookup Relationship
- Reservation → Employee (Contact) = Lookup Relationship

This ensures each reservation is linked to one employee and one parking slot.

Step 5: Record Types

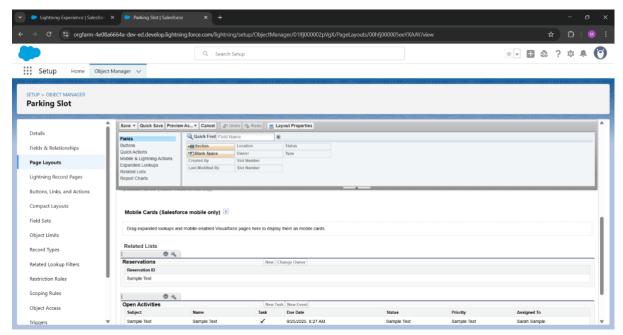
- 1. Go to Reservation → Record Types → New.
- 2. Create two record types:
 - Employee Reservation
 - Guest Reservation
- 3. Assign them to proper profiles.



Screenshot: Record types list for Reservation.

♦ Step 6: Page Layouts

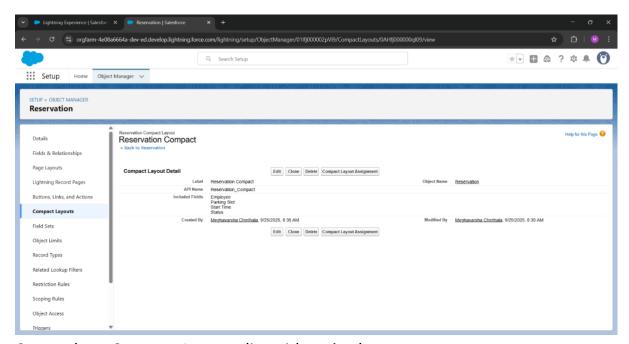
- 1. **Parking Slot Layout**: Add fields (Slot No, Location, Status, Type) and Related List → Reservations.
- 2. **Reservation Layout**: Add fields (Employee, Parking Slot, Start Time, End Time, Status, Duration).



Screenshot: Page Layout editor with Reservations related list.

♦ Step 7: Compact Layouts

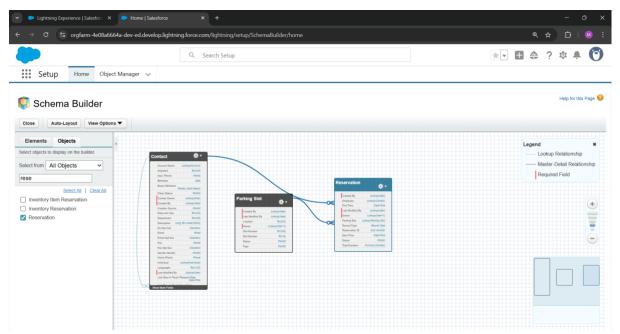
- 1. Parking Slot Compact Layout: Slot Number, Location, Status, Type.
- 2. **Reservation Compact Layout**: Employee, Parking Slot, Start Time, Status.



Screenshot: Compact Layouts list with active layout.

Step 8: Schema Builder

- 1. Go to **Setup** → **Schema Builder**.
- 2. Drag Contact, Parking Slot, Reservation objects.
- 3. Show Lookup Relationships visually.



Screenshot: Schema Builder diagram.

Outcome of Phase 3

- **Data Model is ready** with Parking Slots, Reservations, and Employees linked.
- Every reservation connects to an employee and a slot.
- Managers can view reservation history for each slot.
- Foundation is set for automation (Phase 4).