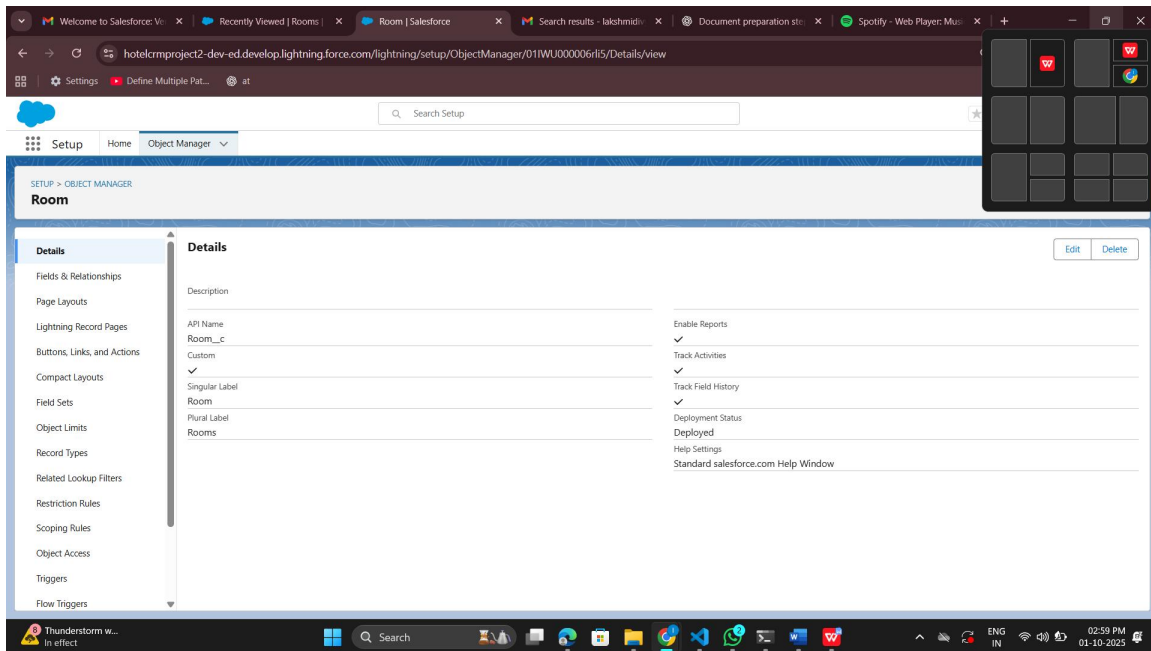


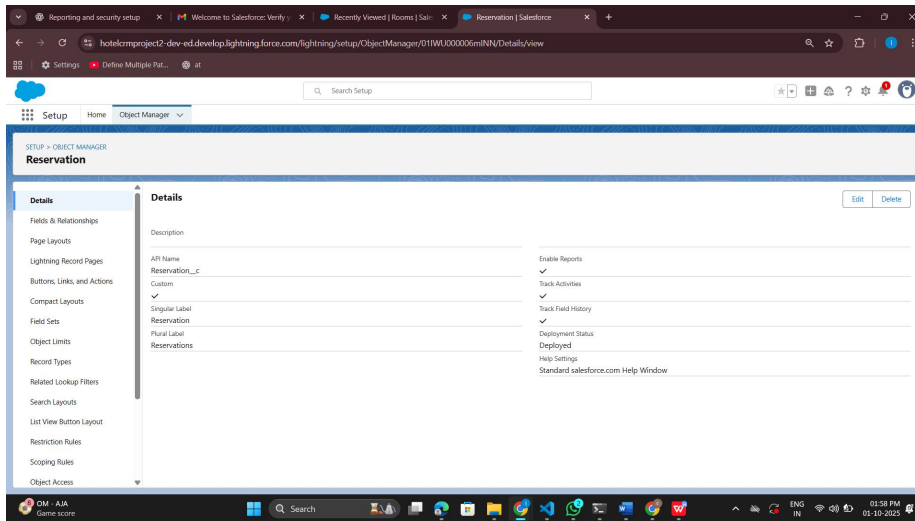
Phase-3 Hotel Booking Management System

Phase 3: Data Modeling & Relationships

1. Objective

The goal of this phase is to define the data structure for hotel booking, covering Rooms, Guests, Reservations, Payments, and Feedback.





2. Objects & Fields

Room (Custom Object)

Field	Type	Description
Room Number	Text	Unique room identifier
Type	Picklist	Single, Double, Suite
Rate	Currency	Price per night
Status	Picklist	Available, Booked, Under Maintenance

SETUP > OBJECT MANAGER

Room

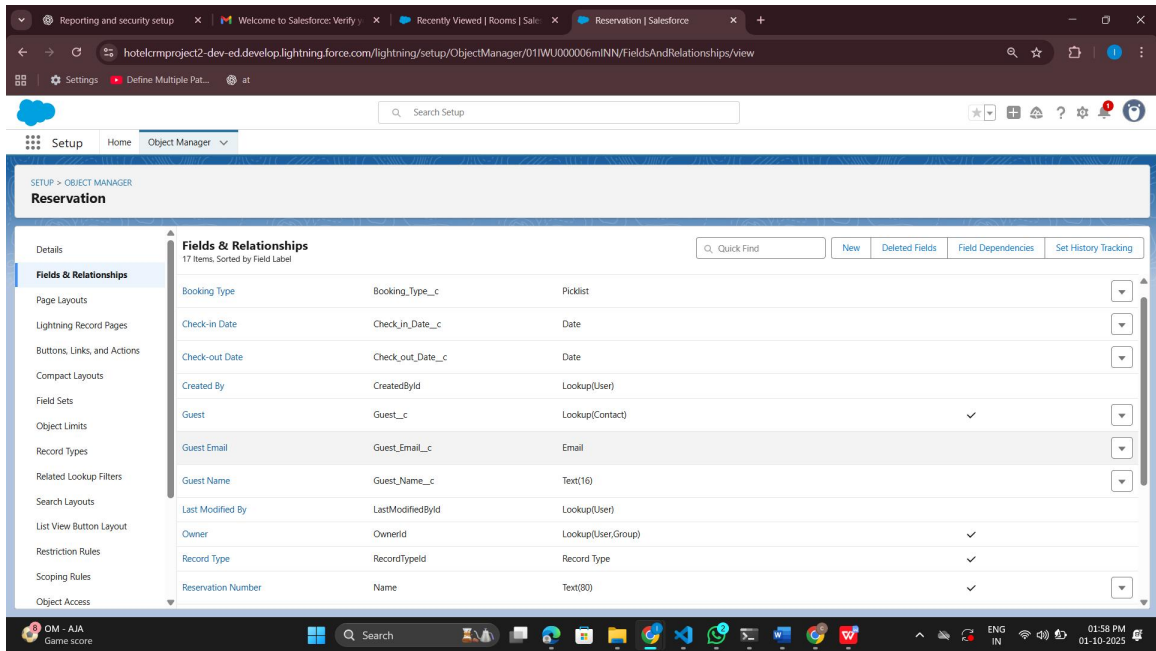
Details

Fields & Relationships 9 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Rate	Rate__c	Currency(16, 2)		
Reservation	Reservation__c	Lookup(Reservation)		✓
Room Name	Name	Text(80)		✓
Room Number	Room_Number__c	Text(50)		
Status	Status__c	Picklist		
Type	Type__c	Picklist		

Reservation (Custom Object)

Field	Type	Description
Check-in Date	Date	Start of stay
Check-out Date	Date	End of stay
Total Amount	Currency	Calculated total amount

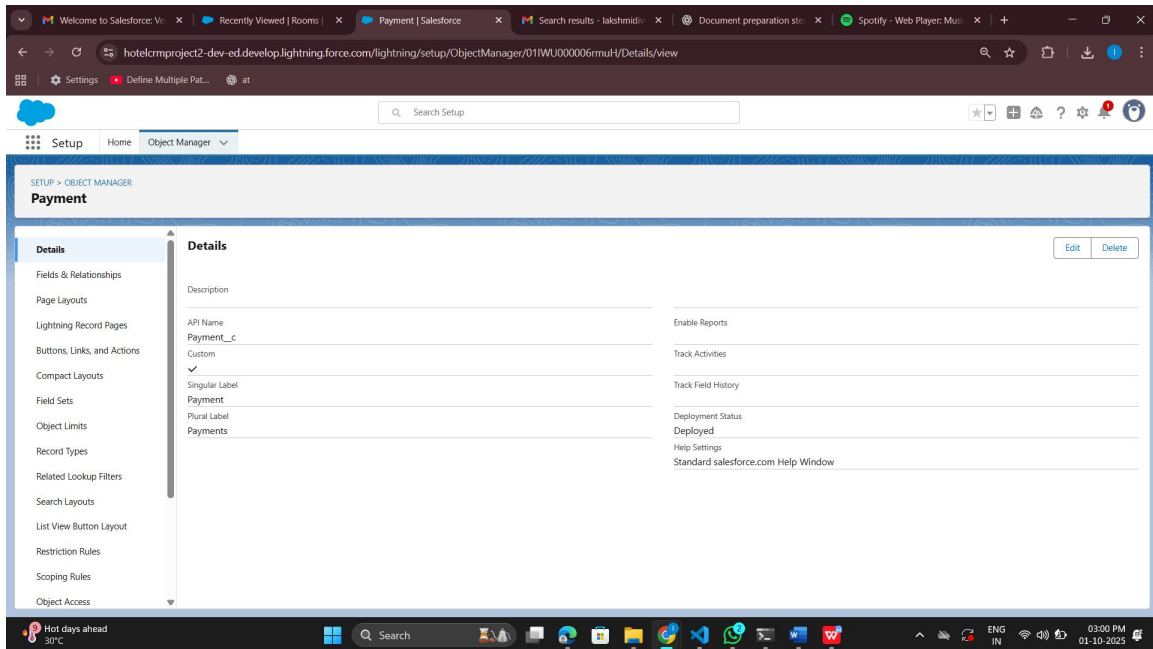


Guest (Standard Contact)

Field	Type	Description
Name	Text	Guest full name
Email	Email	Guest email address
Phone	Phone	Guest contact number

Payment (Custom Object)

Field	Type	Description
Amount	Currency	Payment amount
Method	Picklist	Cash, Card, UPI
Status	Picklist	Pending, Completed, Failed



Feedback (Custom Object)

Field	Type	Description
Guest	Lookup(Contact)	Guest who gave feedback
Rating	Number	Guest rating (1-5)
Comments	Long Text	Guest feedback comments

SETUP > OBJECT MANAGER
Feedback

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules
Scoping Rules
Object Access
Triggers
Flow Triggers

Fields & Relationships
10 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Comments	Comments__c	Long Text Area(32768)		
Contact	Contact__c	Lookup(Contact)		✓
Created By	CreatedById	Lookup(User)		
Feedback Name	Name	Text(80)		✓
Guest	Guest__c	Lookup(Contact)		✓
Guest Name	Guest_Name__c	Text(100)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Rating	Rating__c	Number(1, 1)		
Reservation	Reservation__c	Lookup(Reservation)		✓

3. Relationships

- Room ↔ Reservation → Lookup (A reservation is linked to one room).
- Reservation ↔ Guest → Lookup (Each reservation has one guest).
- Reservation ↔ Payment → Master-Detail (Payments roll up to reservation).
- Guest ↔ Feedback → Lookup (Feedback tied to guest).

SETUP > OBJECT MANAGER
Payment

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
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Object Limits
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Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access

Fields & Relationships
Payment Custom Field
Reservation
Back to Payment

Custom Field Definition Detail

Field Information

Field Label	Field Name	Object Name	Data Type
Reservation	Reservation__c	Payment	Lookup

Lookup Options

Related To	Child Relationship Name
Reservation	Payments

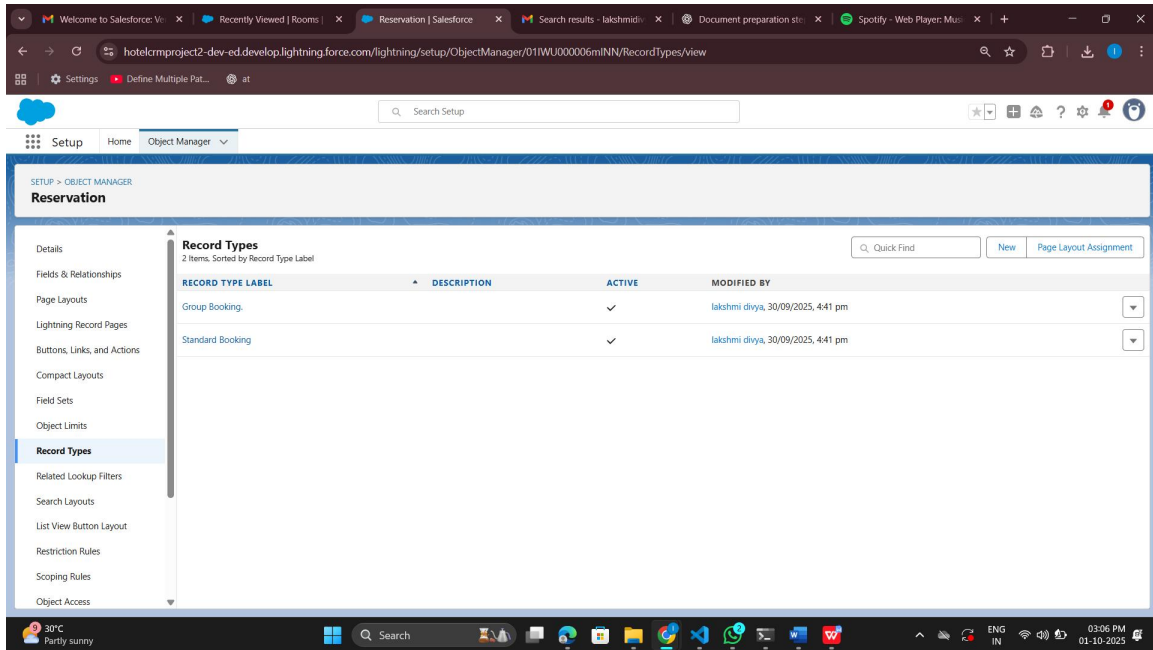
What to do if the lookup record is deleted? Clear the value of this field.

Lookup Filter
No lookup filters defined.

4. Record Types

Two record types are defined:

- Standard Booking → For individual reservations.
- Group Booking → For bulk/group reservations.



5. Page Layouts

- Guest Page Layout → Related list of Reservations + Payments.
- Reservation Page Layout → Show Guest, Room, Payment info.

Guest Data

Name	Email	Phone
John Smith	john@hotel.com	9876543210
Alice Brown	alice@hotel.com	9876501234

Room Data

Room Number	Type	Rate	Status
101	Single	2500	Available
202	Double	4000	Booked

7. Testing Plan

- Create a test reservation, link to guest + room.
- Add a payment and verify roll-up.
- Add feedback and check guest's related list.

8. Conclusion

The defined data structure supports the complete booking lifecycle by linking Rooms, Guests, Reservations, Payments, and Feedback.