

Phase 3: Data Modeling & Relationships

Travel & Tourism Management System

1. Standard & Custom Objects

Standard Objects Used:

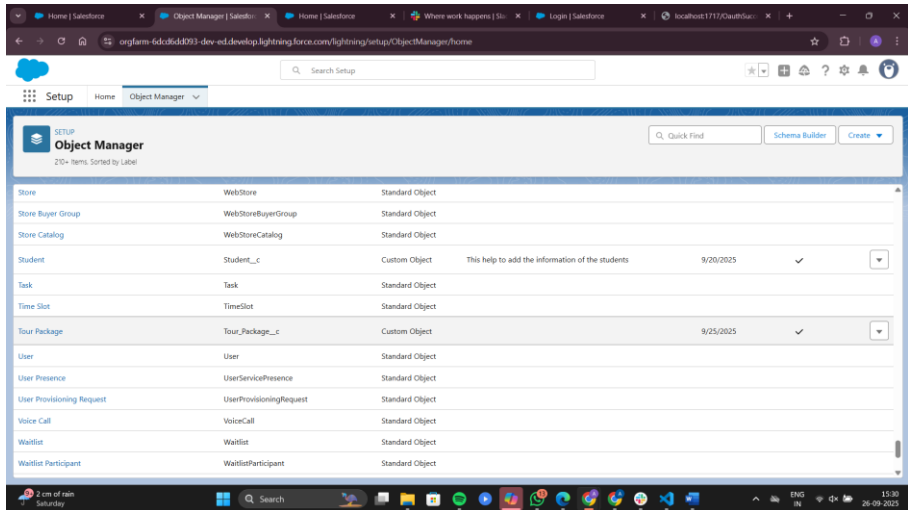
- Contact: Represents customers who book travel packages.
- User: Travel agents and system users managing the bookings.
- Lead: Potential customers.
- Account: Travel agencies, vendors, partners.

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|--|----------------------------|-----------------|
| Setup | Home | Object Manager |
| <div>SETUP</div> <div>Object Manager</div> <div>53+ Items, Sorted by Label</div> | | |
| Authorization Form Text | AuthorizationFormText | Standard Object |
| Booking | Booking__c | Custom Object |
| Business Brand | BusinessBrand | Standard Object |
| Buyer Group | BuyerGroup | Standard Object |
| Campaign | Campaign | Standard Object |
| Campaign Member | CampaignMember | Standard Object |
| Card Payment Method | CardPaymentMethod | Standard Object |
| Cart | WebCart | Standard Object |
| Cart Adjustment Basis | WebCartAdjustmentBasis | Standard Object |
| Cart Adjustment Group | WebCartAdjustmentGroup | Standard Object |
| Cart Delivery Group | CartDeliveryGroup | Standard Object |
| Cart Delivery Group Method | CartDeliveryGroupMethod | Standard Object |
| Cart Delivery Group Method Adjustment | CartDeliveryGroupMethodAdj | Standard Object |
| Cart Item | CartItem | Standard Object |

Custom Objects Created:

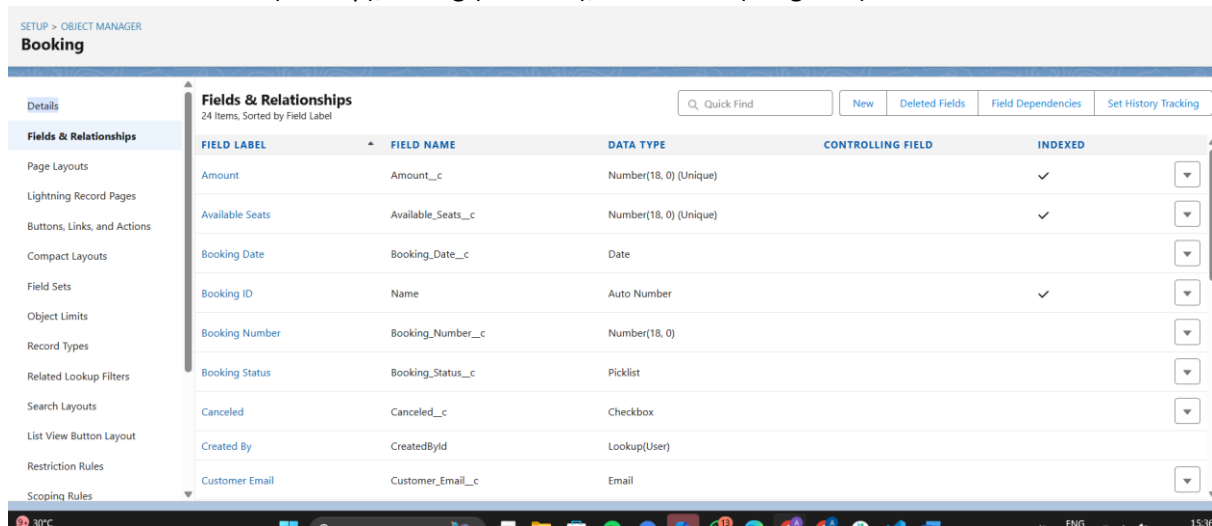
- Tour Package: Stores details of travel packages including destinations, pricing, availability.
- Booking: Central object recording customer reservations and booking details.
- Payment: Tracks payments linked to bookings.

- Review: Stores customer feedback and ratings for tours.



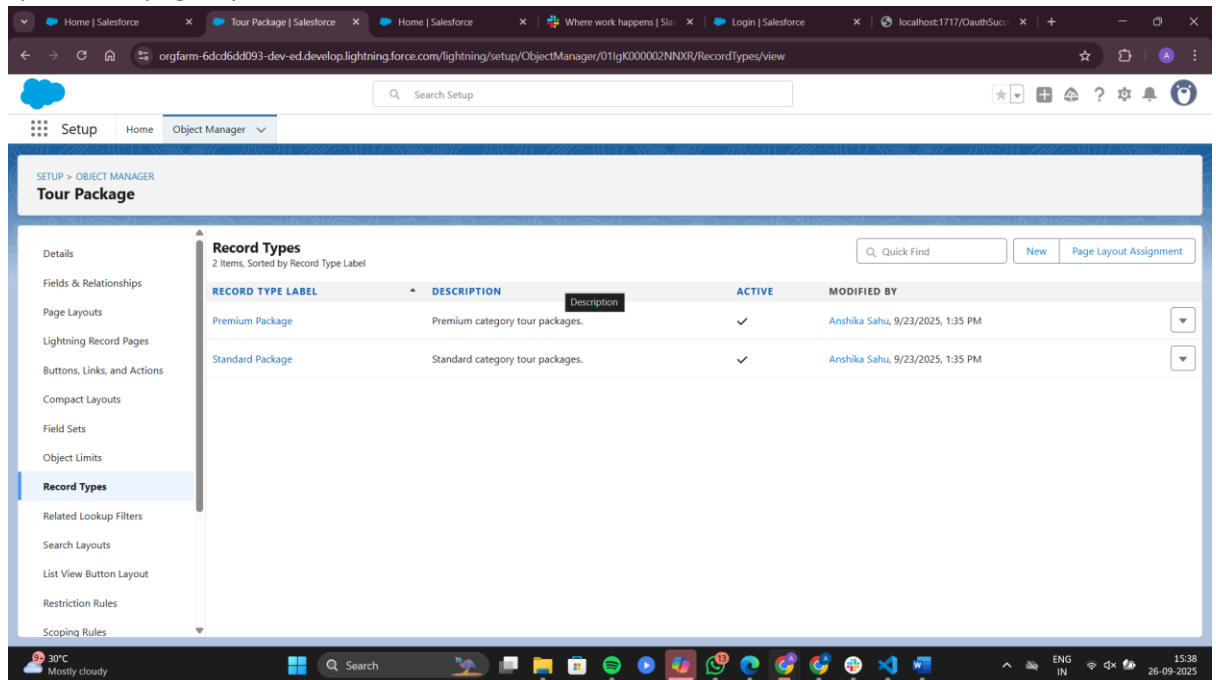
2. Fields

- Each object has carefully defined fields with appropriate data types.
- Examples:
 - On Tour Package: Package Name (Text), Destination (Text), Price (Currency), Duration (Number).
 - On Booking: Customer Name (Text), Travel Package (Lookup), Travel Date (Date), Status (Picklist).
 - On Payment: Booking (Master-Detail), Payment Amount (Currency), Payment Status (Picklist).
 - On Review: Customer (Lookup), Rating (Number), Comments (Long Text).



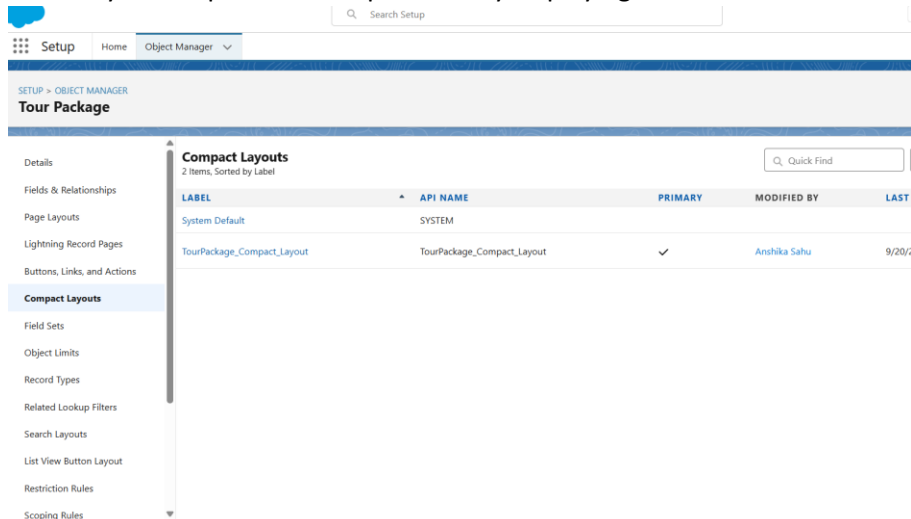
3. Record Types & Page Layouts

- Multiple record types created for Tour Packages to separate Domestic, International, and Adventure tours with customized page layouts for each.
- Booking object includes record types for Individual and Group bookings, each with specialized page layouts.



4. Compact Layouts

- Created compact layouts for Contact, Tour Package, and Booking objects to highlight key fields (e.g., Name, Email for Contact; Package Name, Price for Tour Package).
- These layouts improve user experience by displaying essential information succinctly.



5. Schema Builder

- Used Schema Builder to visualize the complete data model.

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- The screenshot displays the Schema Builder interface with three entity models defined:
- Tour Package**
 - Available Seats: Number(18, 0)
 - Created By: Lookup(User)
 - Destination: Text(100)
 - Duration: Number(18, 0)
 - End Date: Date
 - Last Modified By: Lookup(User)
 - Maximum Travelers: Number(18, 0)
 - Minimum Travelers: Number(18, 0)
 - Owner: Lookup(User+1)
 - Package_Type: Picklist
 - Package Code: Auto Number
 - Price: Currency(6, 0)
 - Record Type: Record Type
 - Start Date: Date
 - Status: Picklist
 - Tour Package Name: Text(80)
 - Booking**
 - Amount: Number(18, 0) (Unique)
 - Available Seats: Number(18, 0) (Unique)
 - Booking Date: Date
 - Booking ID: Auto Number
 - Booking Number: Number(18, 0)
 - Booking Status: Picklist
 - Canceled: Checkbox
 - Created By: Lookup(User)
 - Customer Email: Email
 - Customer Name: Text(100)
 - Date: Date
 - Discount: Number(18, 0)
 - Experience Name: Text(100)
 - Last Modified By: Lookup(User)
 - Number of Travelers: Number(3, 0)
 - Owner: Lookup(User+1)
 - Payment Status: Picklist
 - Start Time: Time
 - Total Amount: Number(18, 0)
 - Tour Package: Lookup(Tour Package)
 - Mentor**
 - Assigned Tour: Lookup(Tour Package)
 - Created By: Lookup(User)
 - Email: Email
 - Expertise: Text(100)
 - Full Name: Text(100)
 - Last Modified By: Lookup(User)
- Relationships are defined in the Legend:
- Lookup Relationship (Blue line)
 - Master-Detail Relationship (Red line)
 - Required Field (Red outline)
- Key relationships shown:
- Tour Package** to **Booking**: Master-Detail Relationship (Red line) on the **Booking** side.
 - Booking** to **Mentor**: Lookup Relationship (Blue line) on the **Mentor** side, pointing to the **Assigned Tour** field.

8. Data Model Best Practices

- Use Lookup when child records should not be deleted with parent.
 - Use Master-Detail for dependent child records with roll-ups.
 - Adopt junction objects for many-to-many relationships.
 - Consider performance and system limits when designing relationships.
 - Align sharing and security model with data relationships.
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Implementation Summary

- Standard & custom objects defined.
- Fields created with business requirements in mind.
- Record types and layouts customized for user experience.
- Relationships built to provide 360-degree views.
- External objects conceptually planned for integrations.
- Data model documented and visualized for clarity.