

Phase 3: Data Modeling & Relationships

Goal: Build the data structure for managing employee leave requests.

1. Standard & Custom Objects

- Standard Objects:
 - User → represents employees and managers.
 - Profile → defines access and permissions.
- Custom Objects:
 - Leave_Application__c → stores leave applications and approval status.

2. Fields

- Leave_Application__c fields:
 - Employee (Lookup to User)
 - Leave Type (Annual, Sick, Casual)
 - Start Date
 - End Date
 - Total Days
 - Status (Pending, Approved, Rejected)
 - Comments

3. Record Types

- Leave_Application__c → optional if you want different leave processes for Planned Leave vs Sick Leave.

4. Page Layouts

- Leave Application Page Layout: Shows employee info, leave dates, type, status, and manager comments.
- Employee Page Layout: Displays submitted leave applications.

5. Compact Layouts

- For mobile view: show Leave Type, Start Date, End Date, Status.

6. Schema Builder

- Use Schema Builder to visualize relationships between User and Leave_Application__c.

7. Lookup vs Master-Detail vs Hierarchical Relationships

- Employee → Leave_Application__c: Lookup (employees can have multiple leave applications, applications don't own employees).
- Leave_Application__c → Manager (User): Lookup to identify who approves.

8. Junction Objects

- Not required for this project because one leave application belongs to one employee only.

9. External Objects

- Could be used if leave data comes from external HR systems, but not used here.