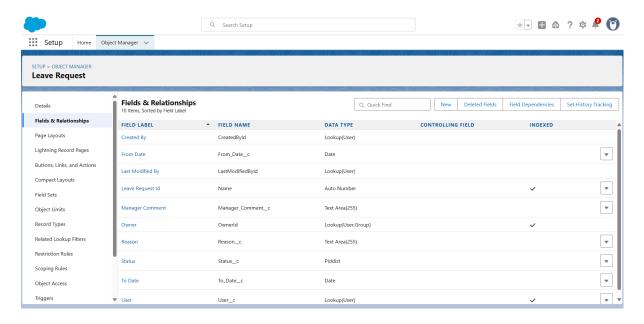
# Phase 3: Data Modeling & Relationships – Leave Tracking App

## 1. Standard & Custom Objects

- Standard Objects:
  - User → Represents employees, managers, and HR/Admin.
- Custom Objects:
  - Leave Request → Stores employee leave applications.
  - Leave Balance → Tracks leave allocation, taken, and remaining.
  - Holiday Calendar (optional) → Stores company/public holidays.

#### 2. Fields

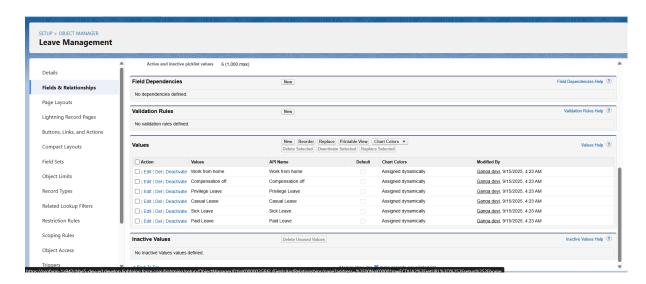
- Leave Request: Employee (Lookup to User), Leave Type, Start Date, End Date, Total Days (Formula), Status, Reason.
- Leave Balance: Employee (Lookup to User), Leave Type, Allocated, Taken, Remaining Balance (Formula).
- Holiday Calendar: Holiday Name, Holiday Date, Type.



## 3. Record Types

- Leave Request Record Types:
  - o Sick Leave
  - Casual Leave
  - Earned Leave
  - Special Leave(ex:Maternity,Paternity)

Work from home



 Record Types allow different picklist values, page layouts, and approval processes for each leave type.

## 4. Page Layouts

- Employee Layout: Simple form for applying leave.
- Manager Layout: Includes approval section and team view.
- HR/Admin Layout: Full access, including balance adjustment fields.

## 5. Compact Layouts

- For Leave Request (Mobile / Highlights Panel):
  - Employee, Leave Type, Start Date, End Date, Status.
- For Leave Balance:
  - Employee, Leave Type, Remaining Balance.

#### 6. Schema Builder

- Use Schema Builder to:
  - Visually design object relationships (User ← Leave Request ← Leave Balance).
  - o Add fields & relationships quickly.
  - Check dependencies across objects.

## 7. Lookup vs Master-Detail vs Hierarchical

• Lookup Relationship:

 Used between Leave Request ↔ User and Leave Balance ↔ User (loose coupling).

### • Master-Detail Relationship:

- Could be used between Leave Balance ← Leave Request if you want cascading delete and roll-up summaries.
- Hierarchical Relationship (only on User):
  - Can define Manager → Employee relationship for approvals.

## 8. Junction Objects

- Useful if you want many-to-many relationships, e.g.:
  - Employee ↔ Project ↔ Leave Requests (if leaves are project-specific).
- For basic Leave Management, junction objects are **not mandatory**.

## 9. External Objects (Optional)

- If company holidays or employee data is stored in an external HR system (ERP/Payroll), use External Objects (via Salesforce Connect).
- Allows referencing external data in real-time without storing in Salesforce.

## **Phase 3 Outcome**

- A **complete data structure** for Leave Management is defined.
- Standard & Custom Objects ensure flexibility and scalability.
- **Record Types & Page Layouts** provide tailored experiences for employees, managers, and HR.
- Schema Builder helps visualize and maintain relationships.
- Clear use of Lookup vs Master-Detail ensures proper data integrity.
- Future scalability supported with Junction Objects & External Objects if business expands.