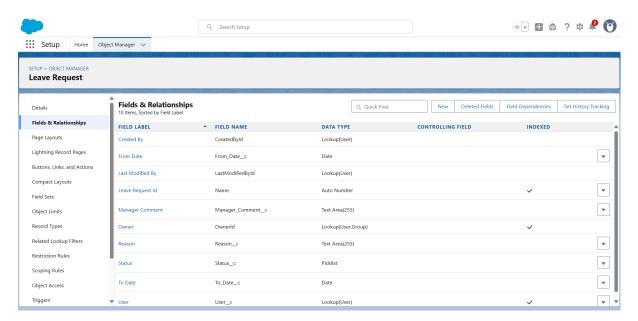
Phase 3: Data Modeling & Relationships – Leave Tracking App

1. Standard & Custom Objects

- Standard Objects:
 - User → Represents employees, managers, and HR/Admin.
- Custom Objects:
 - Leave Request → Stores employee leave applications.

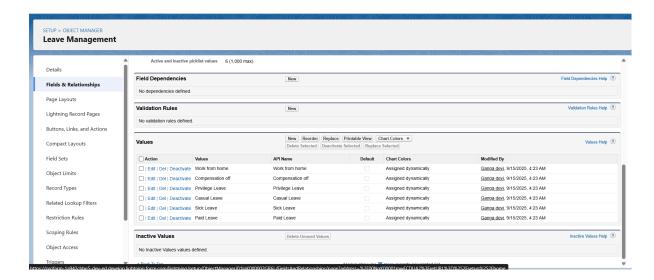
2. Fields

 Leave Request: Employee (Lookup to User), Leave Type, Start Date, End Date, Total Days (Formula), Status, Reason.



3. Record Types

- Leave Request Record Types:
 - 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

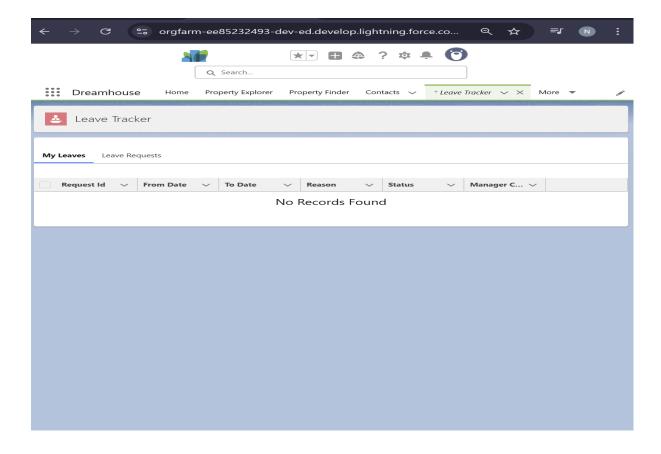
- Employee Layout: Simple form for applying leave.
- Manager Layout: Includes approval section and team view.

5. Compact Layouts

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

6. Schema Builder

- Use Schema Builder to:
 - Visually design object relationships (User ← Leave Request ← Leave Balance).
 - 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.