Phase 3: Data Modeling & Relationships

In this phase, we design custom objects and fields that represent the core entities of the Leave Management System. By establishing the right relationships between objects, we ensure that the system accurately captures and tracks employee leave requests in a structured way.

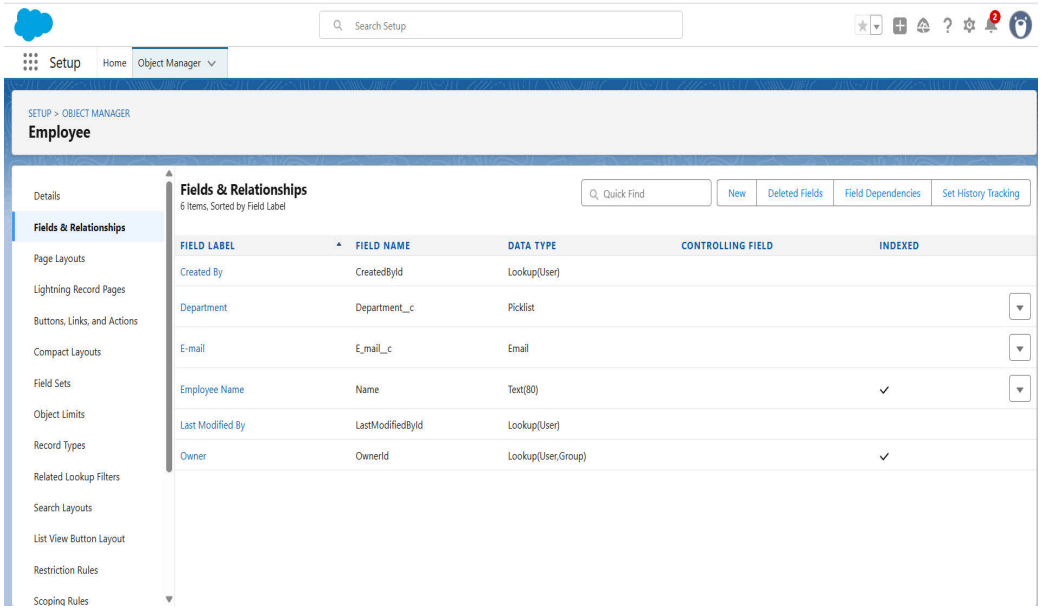
1. Custom Objects

- **Employee__c**

Represents the employees of the company who can submit leave requests.

Fields Created:

1. **Name (Standard)** → Stores the employee's full name.
2. **Email (Custom, Data Type: Email)** → Employee's official email address.
3. **Department (Custom, Picklist)** → Options: IT, HR, Finance, Operations, Admin.

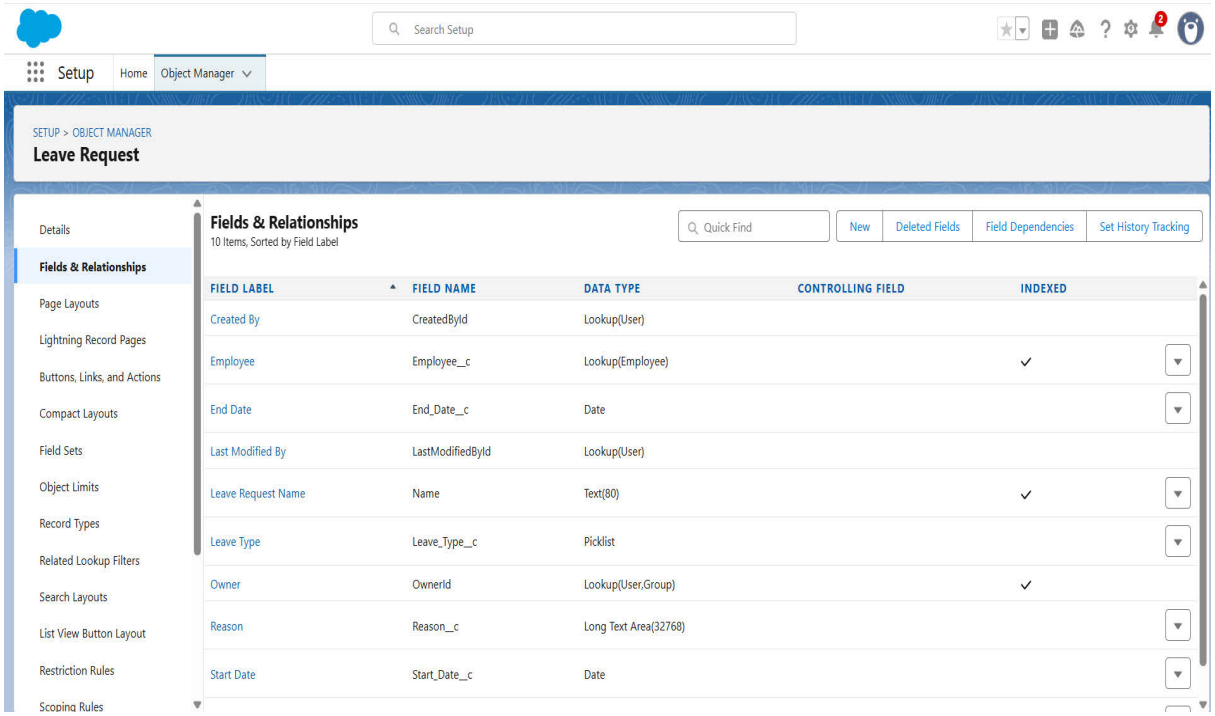


- **Leave_Request__c**

Represents each leave application submitted by an employee.

Fields Created:

1. **Employee (Lookup → Employee__c)** → Links a leave request to the employee.
2. **Start_Date (Date)** → Start of leave.
3. **End_Date (Date)** → End of leave.
4. **Leave_Type (Picklist)** → Options: Sick, Casual, Earned.
5. **Status (Picklist, Default = New)** → Options: New, Approved, Rejected.
6. **Reason (Long Text Area)** → Description for the leave request.



3. Relationship Design

- **Lookup Relationship:**
  - **Employee__c → Leave_Request__c**
  - Each Leave Request record is linked to one Employee.
  - One Employee can have multiple Leave Requests.
- **Cardinality:**
  - **One-to-Many Relationship** → One Employee → Many Leave Requests.

4. Example Scenario

- Employee *prasanth (*Employee__c record) submits 3 leave requests during the year.
- Each leave request is a separate record in **Leave_Request__c**, but all are linked back to the same Employee record.
- This allows the system to track:
  - Total leaves taken by an employee.
  - Pending vs approved requests.
  - Types of leaves used.

5. Outcome of Phase 3

- The custom data model is successfully built in Salesforce.
- The **Employee__c** object stores employee information.
- The **Leave_Request__c** object records leave applications.
- A **One-to-Many relationship** is established, ensuring managers can see all requests made by their employees.