

Phase 3

Salesforce Data Model Implementation

Step 1: Create Custom Objects

Navigate to Setup → Object Manager → Create → Custom Object.

Create the following custom objects one by one:

- **Student**
 - Record Name: Student ID (Auto-Number)
 - Enable: Reports & Activities
- **Faculty**
 - Record Name: Faculty ID (Auto-Number)
 - Enable: Reports & Activities
-

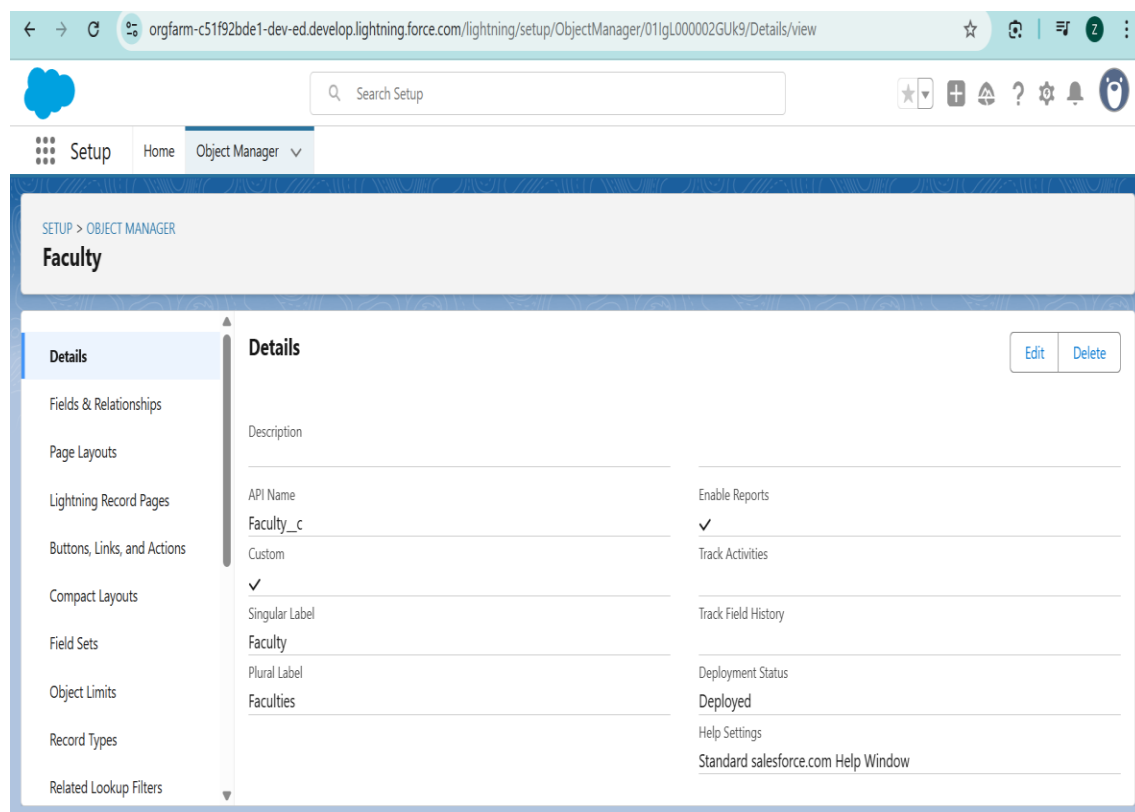


Fig1: Faculty Custom Object

- **Course**
 - Record Name: Course ID (Auto-Number or Text)
 - Enable: Reports & Activities
- **Enrollment**
 - Record Name: Enrollment ID (Auto-Number)
 - Enable: Reports & Activities
- **Fee Payment**
 - Record Name: Payment ID (Auto-Number)
 - Enable: Reports & Activities

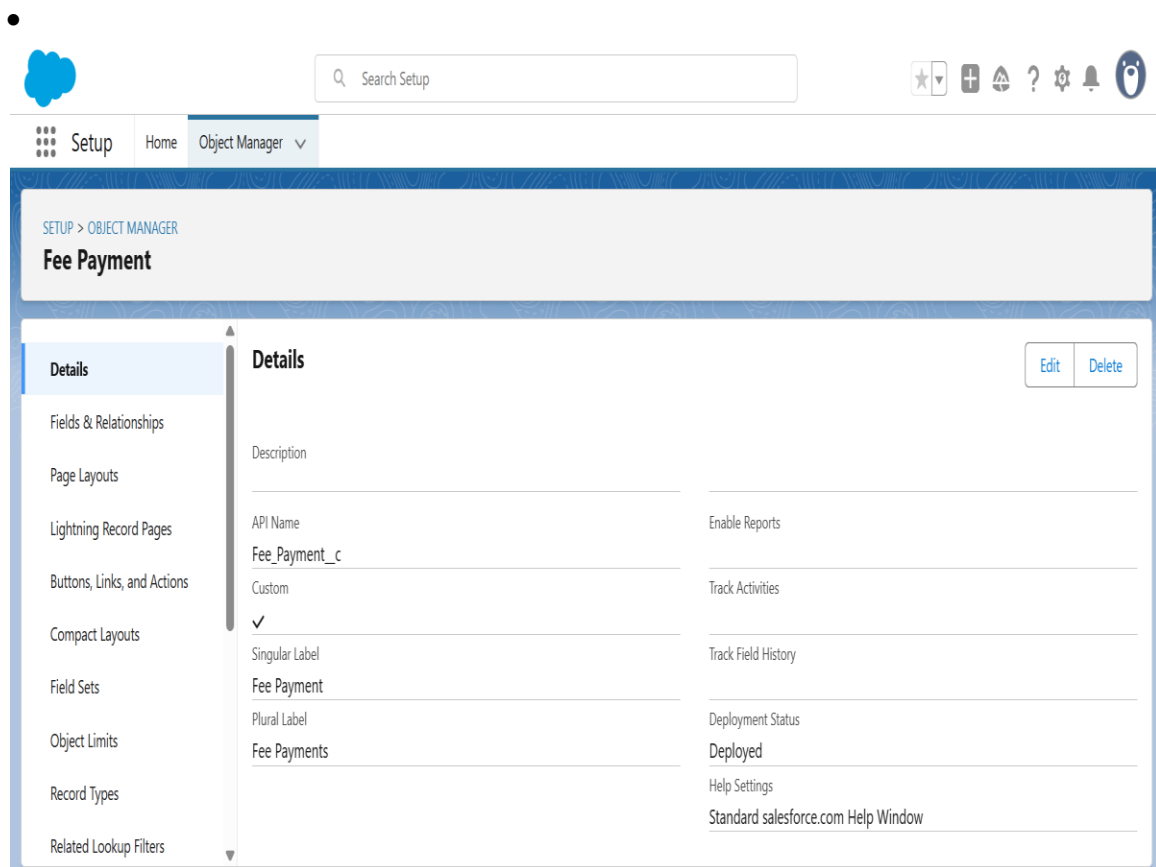


Fig 2:Fee payment custom Object

Step 2: Add Fields to Custom Objects

Student

- Email → Text
- Phone → Phone
- DOB → Date
- Enrollment Status → Picklist (Admitted, Active, Completed, Dropped)
- Course → Lookup (Course)

orgfarm-c51f92bde1-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01gL000002FYYS/FieldsAndRelationships/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Student

Details

Fields & Relationships 11 Items, Sorted by Field Label

Q Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Admission Date	Admission_Date__c	Date		
Course	Course__c	Lookup(Course)		✓
Created By	CreatedById	Lookup(User)		
DOB	DOB__c	Date		
Email	Email__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		

Fig 3:Fields of Student object

Faculty

- Email → Email
- Phone → Phone
- Department → Picklist (CSE,ECE,EEE,CE,MEC,AIML,AIDS)
- Faculty ID → Auto-Number

Course

- Course Name → Text
- Course Code → Text
- Duration → Number (Months)
- Credits → Number
- Fees → Currency
- Faculty → Lookup (Faculty)

Enrollment

- Student → Lookup (Student)
- Course → Lookup (Course)

- Enrollment Date → Date
- Status → Picklist (Active, Completed, Dropped)
- Grade → Picklist (A, B, C, D, F)

SETUP
Object Manager

Edit Enrollment Custom Field
Status

Step 2. Enter the details Step 2 of 3

Field Label:

Below is a list of picklist values. Click Edit to change the name of the value or make it the default value.

<input type="checkbox"/> Action	Values	API Name	Default	Chart Colors	Modified By
<input type="checkbox"/> Edit Del	Active	Active	<input type="checkbox"/>	Assigned dynamically	Maktumsabgari Juha Fathima, 9/17/2025, 6:28 AM
<input type="checkbox"/> Edit Del	Completed	Completed	<input type="checkbox"/>	Assigned dynamically	Maktumsabgari Juha Fathima, 9/17/2025, 6:28 AM
<input type="checkbox"/> Edit Del	Dropped	Dropped	<input type="checkbox"/>	Assigned dynamically	Maktumsabgari Juha Fathima, 9/17/2025, 6:28 AM

Field Name:

Description:

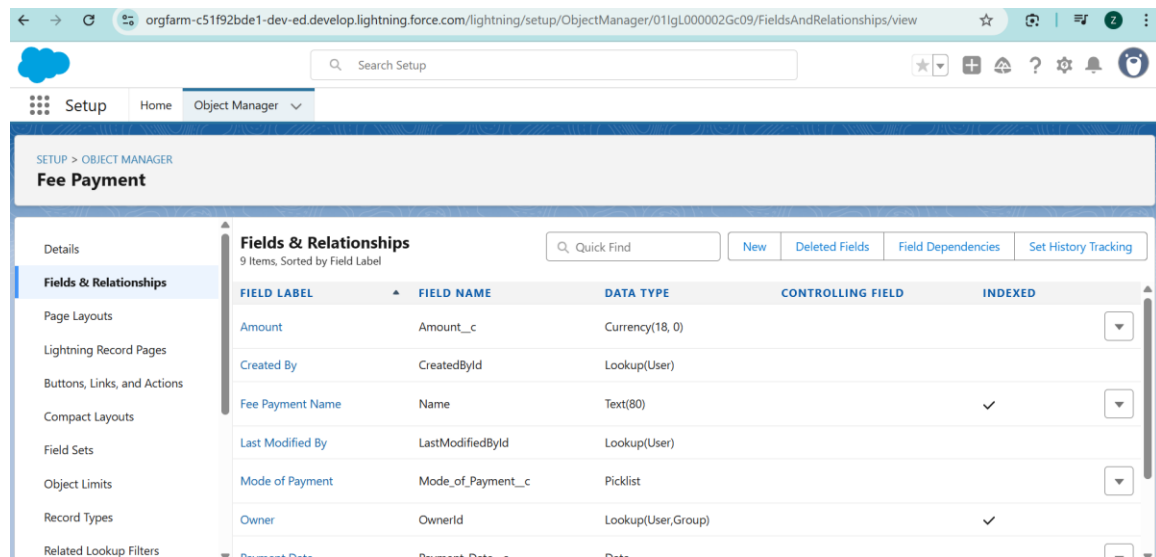
Help Text:

Required ☐ Always require a value in this field in order to save a record

Fig 4: Picklist of Status Field

Fee Payment

- Student → Lookup (Student)
- Payment Date → Date
- Amount → Currency
- Mode of Payment → Picklist (Cash, Card, Online)
- Status → Picklist (Paid, Pending)



The screenshot shows the Salesforce Object Manager interface for the 'Fee Payment' object. The left sidebar contains navigation links: Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main area displays the 'Fields & Relationships' section with a search bar and tabs for New, Deleted Fields, Field Dependencies, and Set History Tracking. A table lists 9 items, sorted by Field Label.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Amount	Amount__c	Currency(18, 0)		
Created By	CreatedById	Lookup(User)		
Fee Payment Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Mode of Payment	Mode_of_Payment__c	Picklist		
Owner	OwnerId	Lookup(User,Group)		✓
Payment Date	PaymentDate__c	Date		

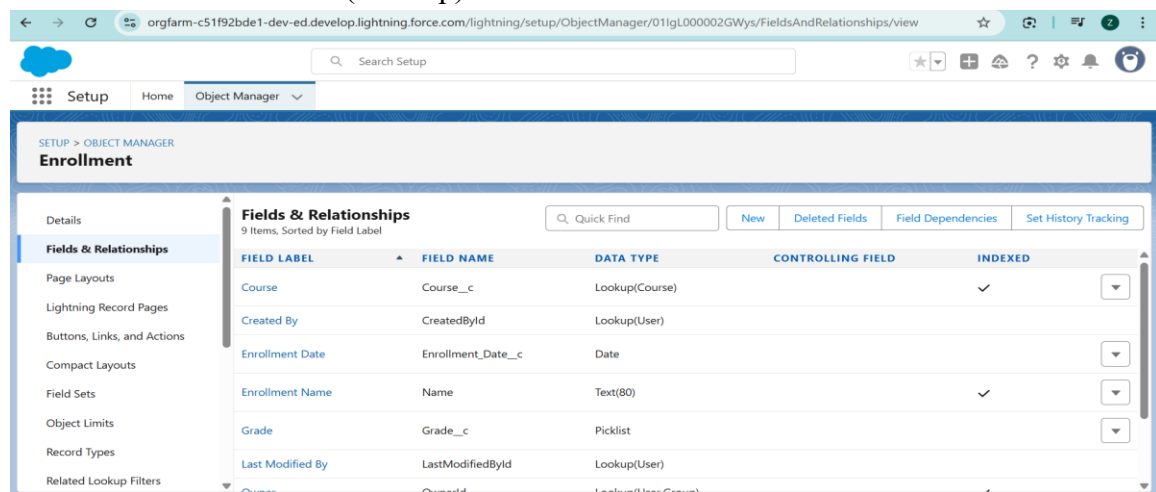
Fig 5: Fields of Fee payment

Step 3: Setup Relationships:

Junction Object → Enrollment:

The Enrollment object enables a many-to-many relationship between Students and Courses.

- Enrollment → Student (Lookup)
- Enrollment → Course (Lookup)



The screenshot shows the Salesforce Object Manager interface for the 'Enrollment' object. The left sidebar contains navigation links: Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main area displays the 'Fields & Relationships' section with a search bar and tabs for New, Deleted Fields, Field Dependencies, and Set History Tracking. A table lists 9 items, sorted by Field Label.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Course	Course__c	Lookup(Course)		✓
Created By	CreatedById	Lookup(User)		
Enrollment Date	EnrollmentDate__c	Date		
Enrollment Name	Name	Text(80)		✓
Grade	Grade__c	Picklist		
Last Modified By	LastModifiedById	Lookup(User)		
Student	StudentId	Lookup(Student)		

Fig 6:Junction Object

- Course → Faculty (Lookup)
- Fee Payment → Student (Lookup)

This creates the following structure:

- One Student → many Courses (via Enrollment)
- One Course → many Students (via Enrollment)
- One Student → multiple Fee Payments
- One Faculty → many Courses

Step 4: Verify Schema with Schema Builder

1. Go to Setup → Schema Builder
2. Drag & drop objects: Student, Faculty, Course, Enrollment, Fee Payment
3. Confirm relationships visually.

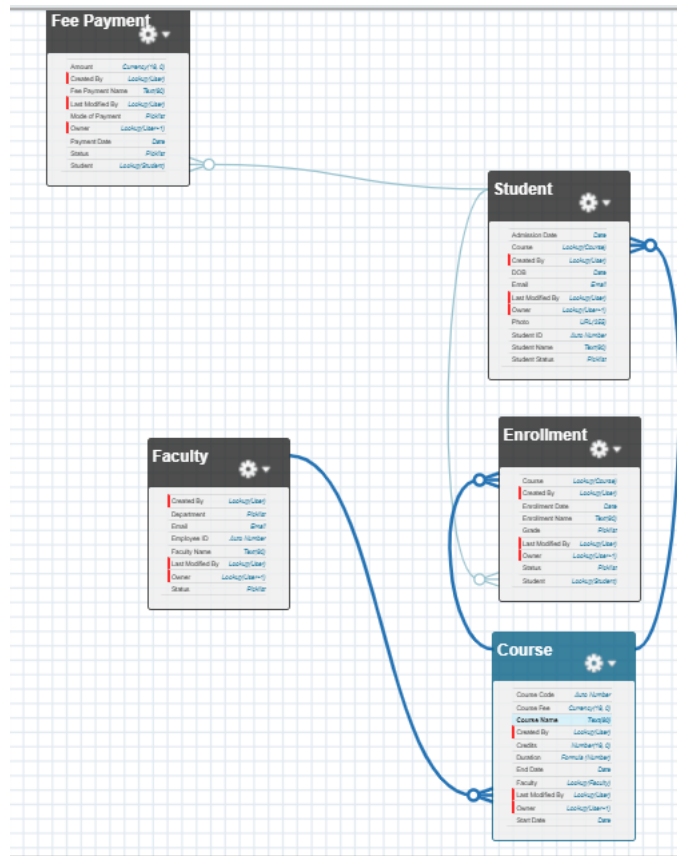


Fig 7 Schema map

Step 5: Test with Sample Records

- Create 1–2 Students.
- Create a Faculty record.
- Create a Course and assign to Faculty.
- Enroll Student in Course (via Enrollment object).

- Add a Fee Payment record for Student.
- Verify relationships in Related Lists of each record.

The screenshot shows the Salesforce interface for CodeSphere Institute. The top navigation bar includes a search bar and menu items: Reports, Dashboards, Chatter, Files, Courses, **Faculties**, Enrollments, Fee Payments, and Students. The main content area displays the details for a Faculty record named **Nida**. The record is owned by **Maktumsabgari Juha Fathima** and was created on 9/19/2025 at 9:46 AM. The record details are as follows:

Field	Value
Faculty Name	Nida
Employee ID	EMP-001
Email	nida@gmail.com
Status	Active
Department	AIDS
Created By	Maktumsabgari Juha Fathima, 9/19/2025, 9:46 AM
Last Modified By	Maktumsabgari Juha Fathima, 9/19/2025, 9:46 AM

On the right side, the **Activity** panel shows a calendar icon and a dropdown menu. Below it, there is a section for **Upcoming** activities with a "Get sta" button, and a section for **No past acti**.

Fig 8: Verification