Phase 3: Data Modeling & Relationships

Project: Smart Education Portal – Student Enrollment & Engagement Management System
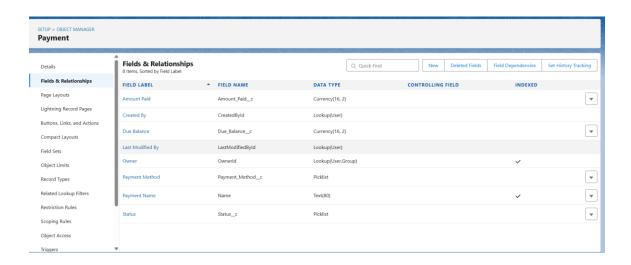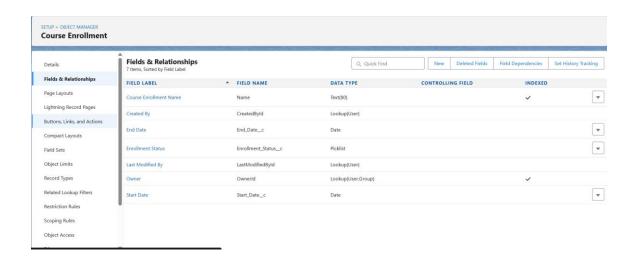
1. Objects

Custom Objects

- Course__c → Stores course/program details (credits, duration, fees)
- Course_Enrollment__c → Junction object for linking students with courses
- Transcript__c → Student's academic record (grades, GPA)
- Counseling_Session__c → Scheduling for interviews/counseling meetings
- Payment__c → Tracks fee transactions, scholarships, and loans

2. Key Fields

- Course__c → Course Name, Duration, Credits, Fee Amount
- Course_Enrollment__c → Enrollment Status (Applied, Admitted, Enrolled, Dropped), Start/End Dates
- Transcript__c → Semester, Grade, GPA, Remarks
- Counseling_Session__c → Session Date, Counselor Assigned, Session Status
- Payment__c → Payment Method (Online, Loan, Scholarship), Amount Paid, Due Balance, Status

Fields & Relationships
7 Items, Sorted by Field Label

Quick Find | New | Deleted Fields | Field Dependencies | Set History Tracking

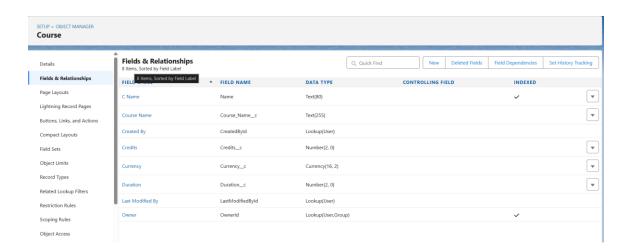| FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Course Enrollment Name	Name	Text(80)		✓	▼
Created By	CreatedById	Lookup(User)			
End Date	End_Date__c	Date			▼
Enrollment Status	Enrollment_Status__c	Picklist			▼
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)		✓	
Start Date	Start_Date__c	Date			▼

Details

Edit | Delete

Description

API Name
Counselling_session__c
Custom
✓
Singular Label
Counselling Session
Plural Label
Counselling Sessions

Enable Reports
✓
Track Activities
✓
Track Field History
✓
Deployment Status
Deployed
Help Settings
Standard salesforce.com Help Window

Fields & Relationships
8 Items, Sorted by Field Label

Quick Find | New | Deleted Fields | Field Dependencies | Set History Tracking

8 Items, Sorted by Field Label

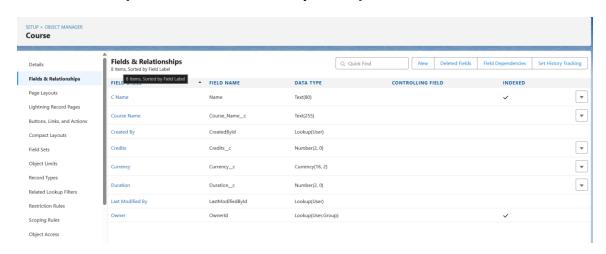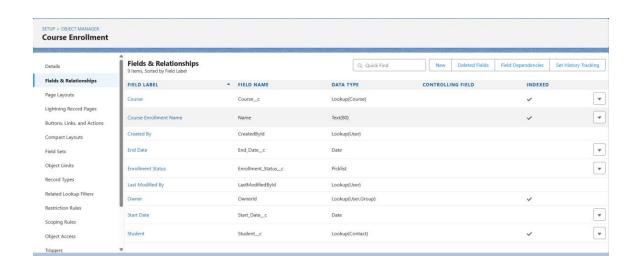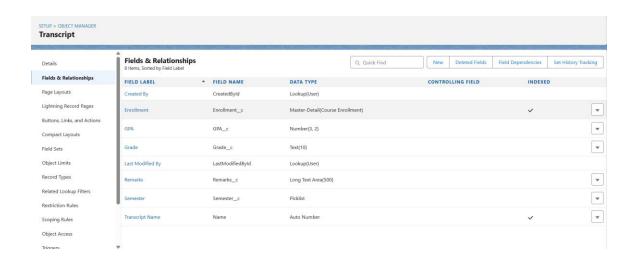| FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
C Name	Name	Text(80)		✓	▼
Course Name	Course_Name__c	Text(255)			▼
Created By	CreatedById	Lookup(User)			
Credits	Credits__c	Number(2, 0)			▼
Currency	Currency__c	Currency(16, 2)			▼
Duration	Duration__c	Number(2, 0)			▼
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)		✓	

3. Relationships

- Lead → Contact/Opportunity (Conversion flow: inquiry to student)
- Contact → Course_Enrollment__c (1:M, one student can enroll in many courses)

- Course__c → Course_Enrollment__c (1:M, one course can have many students)
- Course_Enrollment__c → Transcript__c (1:M, multiple transcripts linked to a course enrollment)
- Contact → Counseling_Session__c (1:M, one student can have many sessions)
- Contact → Payment__c (1:M, multiple payments per student)
- Contact → Case (1:M, student can raise multiple cases)

SETUP > OBJECT MANAGER
Course

Fields & Relationships
8 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
C Name	Name	Text(80)		✓	▾
Course Name	Course_Name__c	Text(255)			▾
Created By	CreatedById	Lookup(User)			
Credits	Credits__c	Number(2, 0)			▾
Currency	Currency__c	Currency(16, 2)			▾
Duration	Duration__c	Number(2, 0)			▾
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)		✓	

SETUP > OBJECT MANAGER
Course Enrollment

Fields & Relationships
9 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Course	Course__c	Lookup(Course)		✓	▾
Course Enrollment Name	Name	Text(80)		✓	▾
Created By	CreatedById	Lookup(User)			
End Date	End_Date__c	Date			▾
Enrollment Status	Enrollment_Status__c	Picklist			▾
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)		✓	
Start Date	Start_Date__c	Date			▾
Student	Student__c	Lookup(Contact)		✓	▾

Transcript

Details				
Fields & Relationships				
Page Layouts				
Lightning Record Pages				
Buttons, Links, and Actions				
Compact Layouts				
Field Sets				
Object Limits				
Record Types				
Related Lookup Filters				
Restriction Rules				
Scoping Rules				
Object Access				
Triggers				

Fields & Relationships
8 Items, Sorted by Field Label

Quick Find | New | Deleted Fields | Field Dependencies | Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Created By	CreatedById	Lookup(User)			
Enrollment	Enrollment__c	Master-Detail(Course Enrollment)		✓	▼
GPA	GPA__c	Number(3, 2)			▼
Grade	Grade__c	Text(10)			▼
Last Modified By	LastModifiedById	Lookup(User)			
Remarks	Remarks__c	Long Text Area(500)			▼
Semester	Semester__c	Picklist			▼
Transcript Name	Name	Auto Number		✓	▼

Counselling Session

Fields & Relationships
8 Items, Sorted by Field Label

Quick Find | New | Deleted Fields | Field Dependencies | Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Counselling Session Name	Name	Auto Number		✓	▼
Counselor Assigned	Counselor_Assigned__c	Lookup(User)		✓	▼
Created By	CreatedById	Lookup(User)			
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)		✓	
Session Date	Session_Date__c	Date/Time			▼
Session Status	Session_Status__c	Picklist			▼
Student	Student__c	Lookup(Contact)		✓	▼

Payment

Fields & Relationships
9 Items, Sorted by Field Label

Quick Find | New | Deleted Fields | Field Dependencies | Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Amount Paid	Amount_Paid__c	Currency(16, 2)			▼
Created By	CreatedById	Lookup(User)			
Due Balance	Due_Balance__c	Currency(16, 2)			▼
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)		✓	
Payment Method	Payment_Method__c	Picklist			▼
Payment Name	Name	Text(80)		✓	▼
Status	Status__c	Picklist			▼
Student	Student__c	Lookup(Contact)		✓	▼

4. Schema Visualization

Using Salesforce Schema Builder, the relationships can be visualized as:

- Contact ↔ Course_Enrollment__c ↔ Course__c
- Course_Enrollment__c ↔ Transcript__c
- Contact ↔ Counseling_Session__c
- Contact ↔ Payment__c
- Contact ↔ Case