PHASE 3 – Data Model & Object Configuration

1. Standard & Custom Objects

- **Standard Objects:** User, Account, Contact (used for roles/faculty if needed).

- **Custom Objects:**

  o Student__c → Central profile for students.

  o Course__c → Academic courses offered.

  o Enrollment__c → Junction between Student & Course.

  o Assessment__c → Student grades (exams, quizzes, projects).

  o Attendance__c → Student attendance tracking.

  o Intervention__c → Early intervention actions for at-risk students.

Course

Details

Edit Delete

Description
Academic courses offered with code, credits, and info.

API Name
Course__c

Enable Reports
✓

Custom
✓

Track Activities
✓

Singular Label
Course

Track Field History
✓

Plural Label
Courses

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Sidebar:
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- Triggers

Enrollment

Details

Edit Delete

Description
Junction linking Students ↔ Courses (tracks enrollments).

API Name
Enrollment__c

Enable Reports
✓

Custom
✓

Track Activities
✓

Singular Label
Enrollment

Track Field History
✓

Plural Label
Enrollments

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

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Intervention

Details

Edit Delete

Description
Actions for at-risk students (counseling, mentoring, extra classes).

API Name
Intervention__c

Enable Reports
✓

Custom
✓

Track Activities
✓

Singular Label
Intervention

Track Field History
✓

Plural Label
Interventions

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

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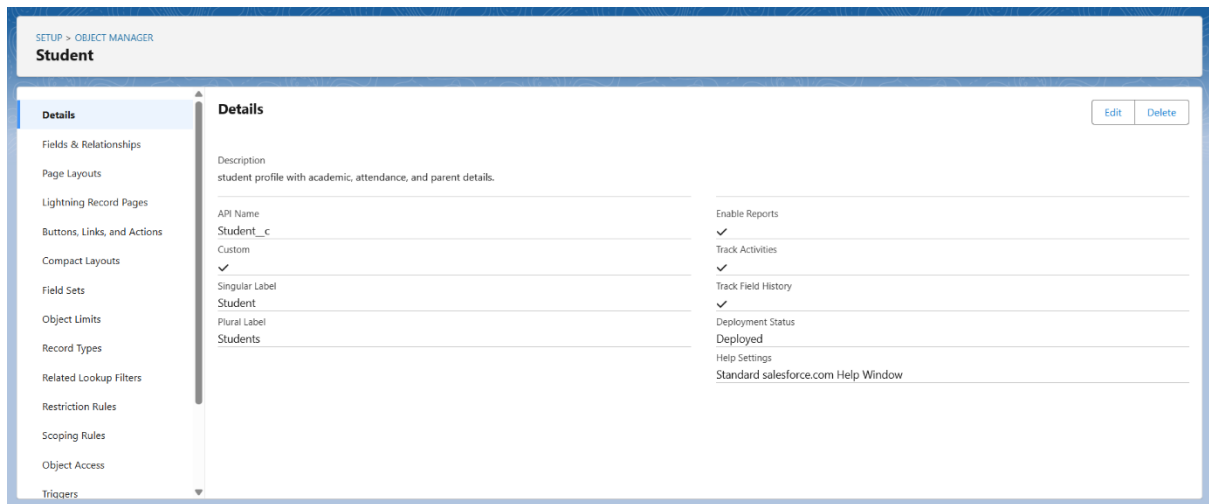
2. Fields

- Created essential fields for each object.

- **Examples:**

    o Student → Roll No, Class, Attendance %, Average Score, Risk Level.

    o Course → Course Code, Credits.

    o Enrollment → Academic Year, Status.

    o Assessment → Score, Max Score, Type, Date.

    o Attendance → Date, Status (Present/Absent), Session.

    o Intervention → Case Status, Action Plan, Assigned To.

- Used **Formula fields** (e.g., Attendance %, Average Score).

- Used **Roll-Up Summary fields** on Student for attendance and scores.

- Added **Validation Rules** (e.g., Score cannot exceed Max Score).

Fields & Relationships
21 Items, Sorted by Field Label

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
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Created By	CreatedById	Lookup(User)		
DOB	DOB__c	Date		▼
First Name	First_Name__c	Text(80)		▼
Gender	Gender__c	Picklist		▼
Last Modified By	LastModifiedById	Lookup(User)		
Last Name	Last_Name__c	Text(80)		▼
Notes	Notes__c	Long Text Area(32768)		▼
Owner	OwnerId	Lookup(User,Group)	✓	
Parent Phone Number	Parent_Phone_Number__c	Phone		▼
Risk Level	Risk_Level__c	Picklist		▼

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

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Fields & Relationships
10 Items, Sorted by Field Label

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules

Assessment Name	Name	Text(80)	✓	▼
Assessment Type	Assessment__c	Picklist		▼
Course	Course__c	Lookup(Course)	✓	▼
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		▼
Last Modified By	LastModifiedById	Lookup(User)		
Max Score	Max_Score__c	Number(5, 2)		▼
Record Type	RecordTypeId	Record Type	✓	
Score	Score__c	Number(5, 2)		▼
Student	Student__c	Master-Detail(Student)	✓	▼

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

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Fields & Relationships
6 Items, Sorted by Field Label

Details
Fields & Relationships
Page Layouts
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Buttons, Links, and Actions
Compact Layouts
Field Sets
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FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Attendance Name	Name	Text(80)		✓	▼
Created By	CreatedById	Lookup(User)			
Date	Date__c	Date			▼
Last Modified By	LastModifiedById	Lookup(User)			
Status	Status__c	Picklist			▼
Student	Student__c	Master-Detail(Student)		✓	▼

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

Fields & Relationships
7 Items, Sorted by Field Label

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
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FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Course Code	Course_Code__c	Text(40)			▼
Course Name	Name	Text(80)		✓	▼
Created By	CreatedById	Lookup(User)			
Credits	Credits__c	Number(18, 0)			▼
Description	Description__c	Long Text Area(32768)			▼
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)		✓	

Fields & Relationships
7 Items, Sorted by Field Label

Details
Fields & Relationships
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FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Academic Year	Academic_Year__c	Picklist			▼
Course	Course__c	Master-Detail(Course)		✓	▼
Created By	CreatedById	Lookup(User)			
Enrollment Name	Name	Text(80)		✓	▼
Last Modified By	LastModifiedById	Lookup(User)			
Status	Status__c	Picklist			▼
Student	Student__c	Master-Detail(Student)		✓	▼

Fields & Relationships
10 Items, Sorted by Field Label

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FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Action	Action__c	Long Text Area(32768)			▼
Assigned to	Assigned_to__c	Lookup(User)		✓	▼
Case Status	Case_Status__c	Picklist			▼
Created By	CreatedById	Lookup(User)			
End Date	End_Date__c	Date			▼
Intervention Name	Name	Auto Number		✓	▼
Last Modified By	LastModifiedById	Lookup(User)			
Record Type	RecordTypeId	Record Type		✓	
Start Date	Start_Date__c	Date			▼
Student	Student__c	Master-Detail(Student)		✓	▼

3. Record Types

- **Assessment__c:** Exam, Midterm, Assignment, Project.

- **Intervention__c:** Counseling, Extra Class, Mentoring, Parent Meeting.

- Each Record Type mapped to **separate Page Layouts** for relevant fields.

4. Page Layouts

- **Student Layout:** Demographics + related lists (Assessments, Attendance, Enrollments, Interventions).

- **Assessment Layouts:** Customized per record type (Exam, Midterm, Assignment, Project).

- **Intervention Layouts:** Customized per record type (Counseling, Extra Class, etc.).

5. Compact Layouts

- **Student Compact Layout:** Name, Roll No, Class, Risk Level, Attendance %, Average Score.

- **Assessment Compact Layout:** Name, Score, Max Score, Date, Type.

- **Intervention Compact Layout:** Status, Assigned To, Start Date.

- Assigned layouts to **Highlights Panel** for better visibility.

Student Compact Layout
Student Compact Layout
« Back to Student

Help for this Page

Compact Layout Detail   Edit Clone Delete Compact Layout Assignment

Label	Student Compact Layout	Object Name	Student
API Name	Student_Compact_Layout		
Included Fields	Student Name Roll No Class Risk Level Attendance Percent Average Score		
Created By	Shivangi Tiwari, 17/09/2025, 10:47 am	Modified By	Shivangi Tiwari, 17/09/2025, 10:47 am

Edit Clone Delete Compact Layout Assignment

Details
Fields & Relationships
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Assessment Compact Layout
Assessment Compact Layout
« Back to Assessment

Help for this Page

Compact Layout Detail   Edit Clone Delete Compact Layout Assignment

Label	Assessment Compact Layout	Object Name	Assessment
API Name	Assessment_Compact_Layout		
Included Fields	Assessment Name Score Max Score Date Assessment Type		
Created By	Shivangi Tiwari, 16/09/2025, 8:32 pm	Modified By	Shivangi Tiwari, 16/09/2025, 8:32 pm

Edit Clone Delete Compact Layout Assignment

Details
Fields & Relationships
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Intervention Compact Layout
Intervention Compact Layout
« Back to Intervention

Help for this Page

Compact Layout Detail   Edit Clone Delete Compact Layout Assignment

Label	Intervention Compact Layout	Object Name	Intervention
API Name	Intervention_Compact_Layout		
Included Fields	Case Status Assigned to Start Date		
Created By	Shivangi Tiwari, 16/09/2025, 8:31 pm	Modified By	Shivangi Tiwari, 16/09/2025, 8:31 pm

Edit Clone Delete Compact Layout Assignment

Details
Fields & Relationships
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6. Schema Builder

- Used to **visualize and verify** relationships between objects.

- Confirmed:

  - Student ↔ Assessment (Master-Detail).

  - Student ↔ Attendance (Master-Detail).

  - Student ↔ Intervention (Master-Detail).

  - Student ↔ Enrollment ↔ Course (Junction).
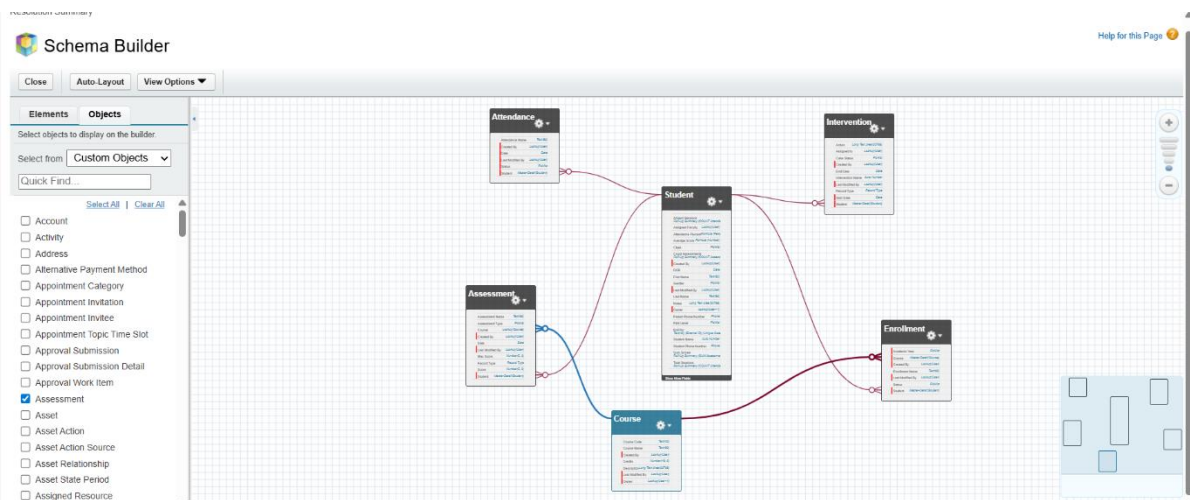
7. Relationships (Lookup vs Master-Detail vs Hierarchical)

- Student ↔ Assessment → Master-Detail (for rollups)
- Student ↔ Attendance → Master-Detail (for rollups)
- Student ↔ Intervention → Master-Detail (for rollups)
- Course ↔ Enrollment ↔ Student → Enrollment is Junction (two master-details).

8. Junction Objects

- Enrollment__c → connect Student & Course (many-to-many).

- Related lists enabled so both Student and Course records display enrolled records.
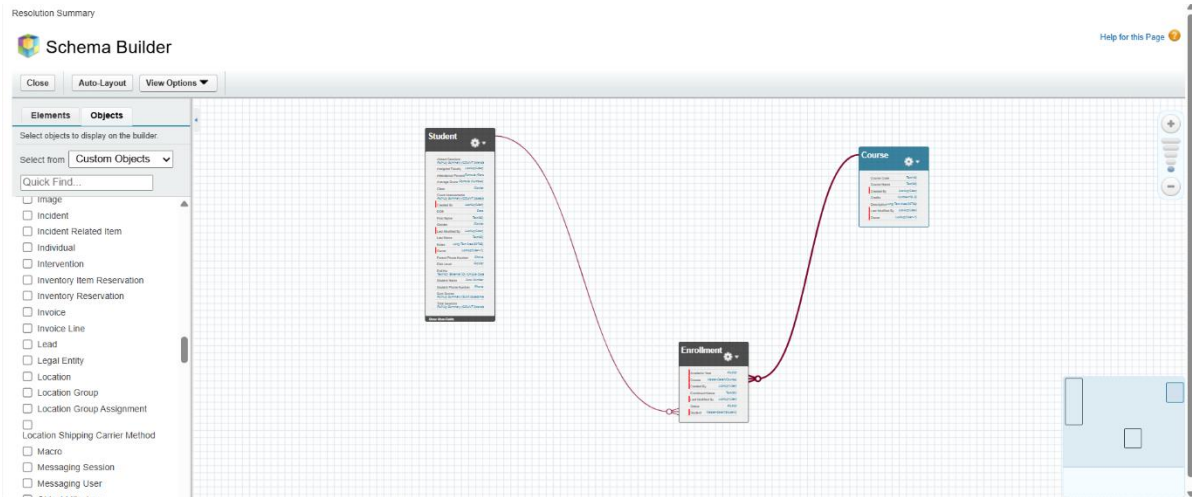
9. External Objects

- External Objects were reviewed but **not required for this project scope**.
- Hence, no External Object was created or used.