# 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

**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

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# Enrollment

## Details

**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
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# Intervention

## Details

**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

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**Student**

**Details**

**Details**                                                                    Edit   Delete

Description
student profile with academic, attendance, and parent details.

API Name                                                    Enable Reports
Student__c                                                  ✓
Custom                                                      Track Activities
✓                                                          ✓
Singular Label                                              Track Field History
Student                                                     ✓
Plural Label                                                Deployment Status
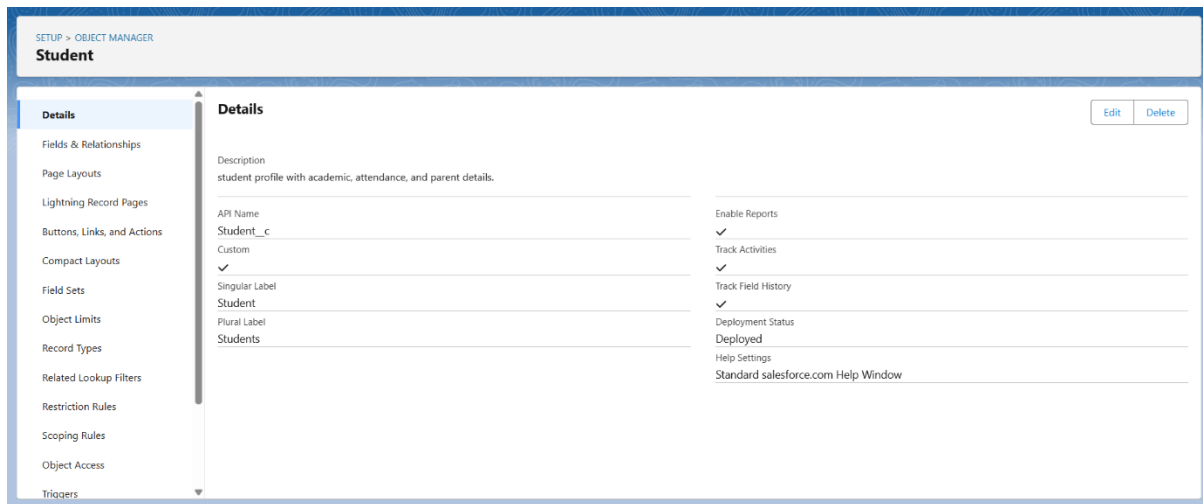Students                                                    Deployed
                                                           Help Settings
                                                           Standard salesforce.com Help Window

Sidebar items: 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

## 2. Fields

- Created essential fields for each object.

- **Examples:**

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

  - Course → Course Code, Credits.

  - Enrollment → Academic Year, Status.

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

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

  - 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

| | | | | |
|---|---|---|---|---|
| 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 | | ▼ |

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

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## Fields & Relationships
10 Items, Sorted by Field Label

| | | | | |
|---|---|---|---|---|
| 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) | ✓ | ▼ |

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## Fields & Relationships
6 Items, Sorted by Field Label

| 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) | | ✓ | ▼ |

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**Fields & Relationships**
7 Items, Sorted by Field Label

| 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) | | ✓ | |

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**Fields & Relationships**
7 Items, Sorted by Field Label

| 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) | | ✓ | ▼ |

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**Fields & Relationships**
10 Items, Sorted by Field Label

| 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) | | ✓ | ▼ |

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## 3. Record Types

- **Assessment__c:** Exam, Quiz, 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, Quiz, Assignment, Project).

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

**Page Layouts**
5 Items, Sorted by Page Layout Name

| PAGE LAYOUT NAME | ▲ | CREATED BY | MODIFIED BY | |
|---|---|---|---|---|
| Assessment - Assignment Test Layout | | Shivangi Tiwari, 16/09/2025, 7:14 pm | Shivangi Tiwari, 16/09/2025, 7:26 pm | ▼ |
| Assessment - Final Exam Layout | | Shivangi Tiwari, 16/09/2025, 7:27 pm | Shivangi Tiwari, 16/09/2025, 7:28 pm | ▼ |
| Assessment - Midterm Layout | | Shivangi Tiwari, 16/09/2025, 7:26 pm | Shivangi Tiwari, 16/09/2025, 7:27 pm | ▼ |
| Assessment - Project Layout | | Shivangi Tiwari, 16/09/2025, 7:27 pm | Shivangi Tiwari, 16/09/2025, 7:27 pm | ▼ |
| Assessment Layout | | Shivangi Tiwari, 16/09/2025, 11:19 am | Shivangi Tiwari, 16/09/2025, 11:27 am | ▼ |

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**Page Layouts**
5 Items, Sorted by Page Layout Name

| PAGE LAYOUT NAME | ▲ | CREATED BY | MODIFIED BY | |
|---|---|---|---|---|
| Intervention - Counseling Layout | | Shivangi Tiwari, 16/09/2025, 8:22 pm | Shivangi Tiwari, 16/09/2025, 8:22 pm | ▼ |
| Intervention - Extra Class Layout | | Shivangi Tiwari, 16/09/2025, 8:23 pm | Shivangi Tiwari, 16/09/2025, 8:23 pm | ▼ |
| Intervention - Mentoring Layout | | Shivangi Tiwari, 16/09/2025, 8:24 pm | Shivangi Tiwari, 16/09/2025, 8:24 pm | ▼ |
| Intervention - Parent Meeting Layout | | Shivangi Tiwari, 16/09/2025, 8:23 pm | Shivangi Tiwari, 16/09/2025, 8:23 pm | ▼ |
| Intervention Layout | | Shivangi Tiwari, 16/09/2025, 11:48 am | Shivangi Tiwari, 16/09/2025, 11:56 am | ▼ |

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## 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

**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

Help for this Page

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Assessment Compact Layout
**Assessment Compact Layout**
« Back to Assessment

**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

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Intervention Compact Layout
**Intervention Compact Layout**
« Back to Intervention

**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

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## 6. Schema Builder

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

- Confirmed:

    o Student ↔ Assessment (Master-Detail).

    o Student ↔ Attendance (Master-Detail).

    o Student ↔ Intervention (Master-Detail).

    o Student ↔ Enrollment ↔ Course (Junction).
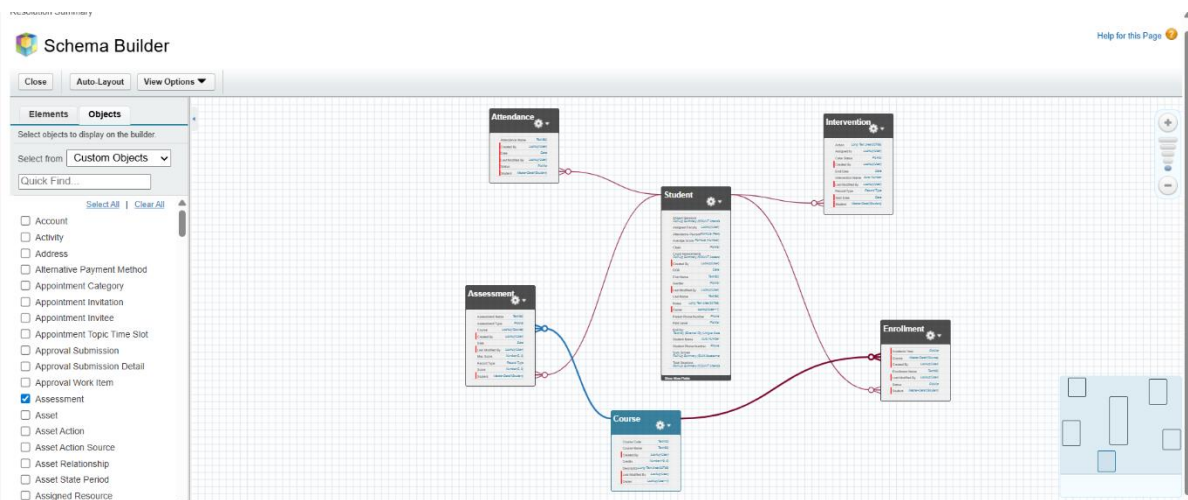


## 7. Relationships (Lookup vs Master-Detail vs Hierarchical)

- 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.
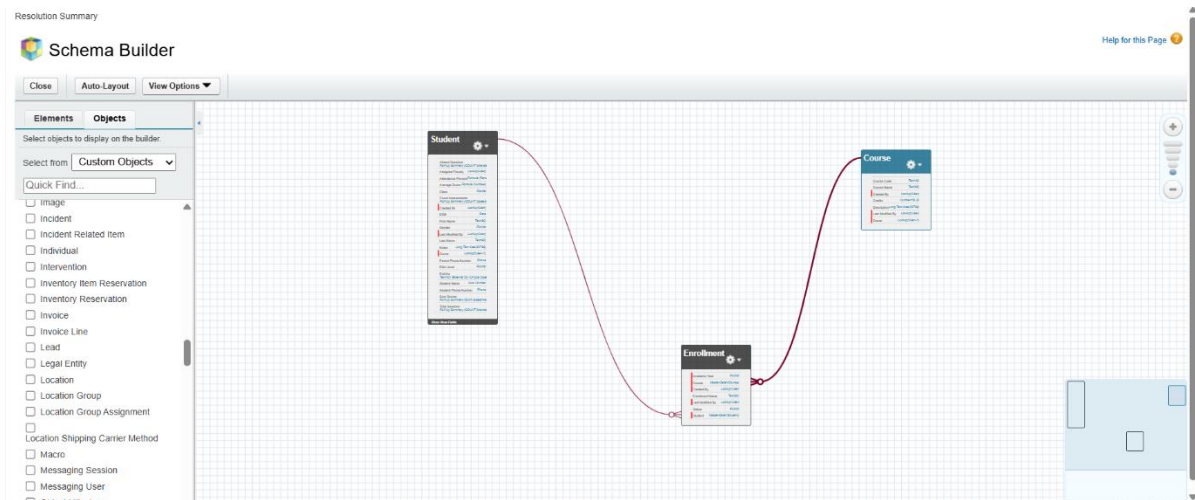
## 9. External Objects

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