

Phase 3: Data Modeling & Relationships

- Standard & Custom Objects

Standard Objects: Included Salesforce entities.

Custom Objects: Created to capture project-specific data:

- Attendance

SETUP > OBJECT MANAGER

Attendance

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

Details

Description

API Name
Attendance__c

Custom
✓

Singular Label
Attendance

Plural Label
Attendance

Enable Reports

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

- Result

SETUP > OBJECT MANAGER

Result

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

Details

Description

API Name
Result__c

Custom
✓

Singular Label
Result

Plural Label
Results

Enable Reports

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

- Course

SETUP > OBJECT MANAGER

Course

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

Details

Description

API Name

Course_c

Custom

✓

Singular Label

Course

Plural Label

Courses

Enable Reports

Track Activities

Track Field History

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

- Enrollment

SETUP > OBJECT MANAGER

Enrollment

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

Details

Description

API Name

Enrollment_c

Custom

✓

Singular Label

Enrollment

Plural Label

Enrollments

Enable Reports

Track Activities

Track Field History

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

- Exam

SETUP > OBJECT MANAGER

Exam

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

Details

Description

API Name

Exam_c

Custom

✓

Singular Label

Exam

Plural Label

Exams

Enable Reports

Track Activities

Track Field History

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

- Student

SETUP > OBJECT MANAGER

Student

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

Details

Description

API Name
Student__c

Custom
✓

Singular Label
Student

Plural Label
Students

Enable Reports

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

- Fields

- Defined standard fields (Record Name, Created Date).
- Added custom fields like Attendance Status, Exam Score, Course Code.

SETUP > OBJECT MANAGER

Attendance

Fields & Relationships
9 Items, Sorted by Field Label

Q Quick Find

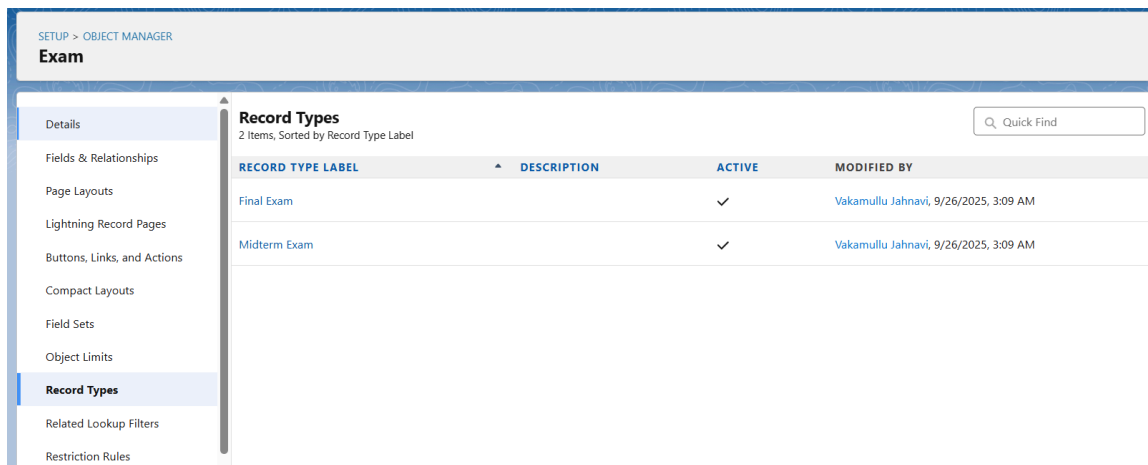
New Deleted Fields Field Dependencies Set History Trac

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Attendance Name	Name	Text(80)		✓
Course	Course__c	Lookup(Course)		✓
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Record Type	RecordTypeId	Record Type		✓
Status	Status__c	Picklist		
Student	Student__c	Lookup(Student)		✓

- Record Types

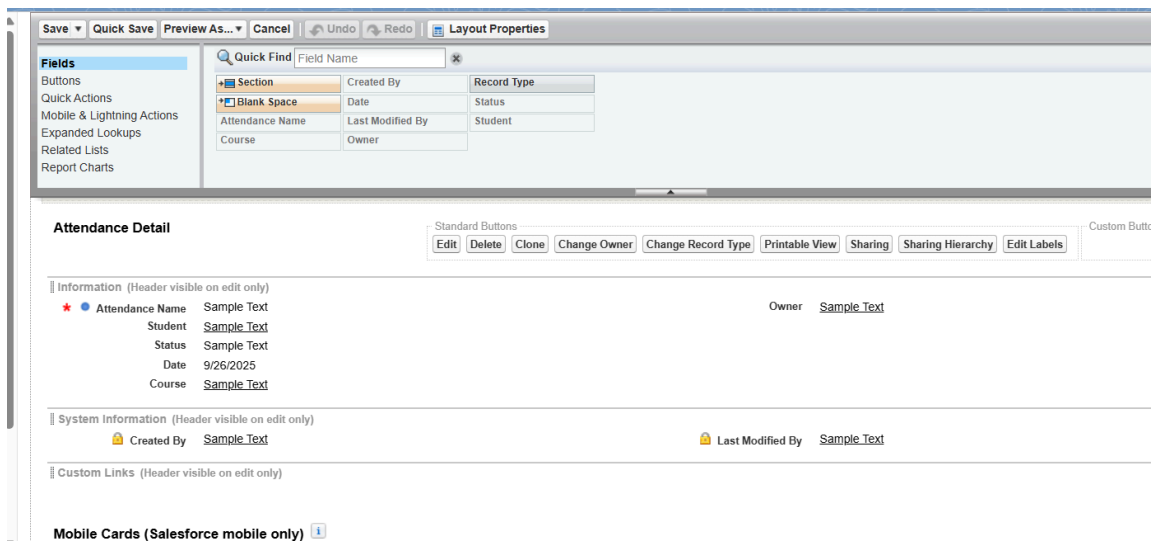
- Created record types to separate business processes.

- Examples: Result has Regular and Makeup exam types; Exam has Midterm, Final.



• Page Layouts

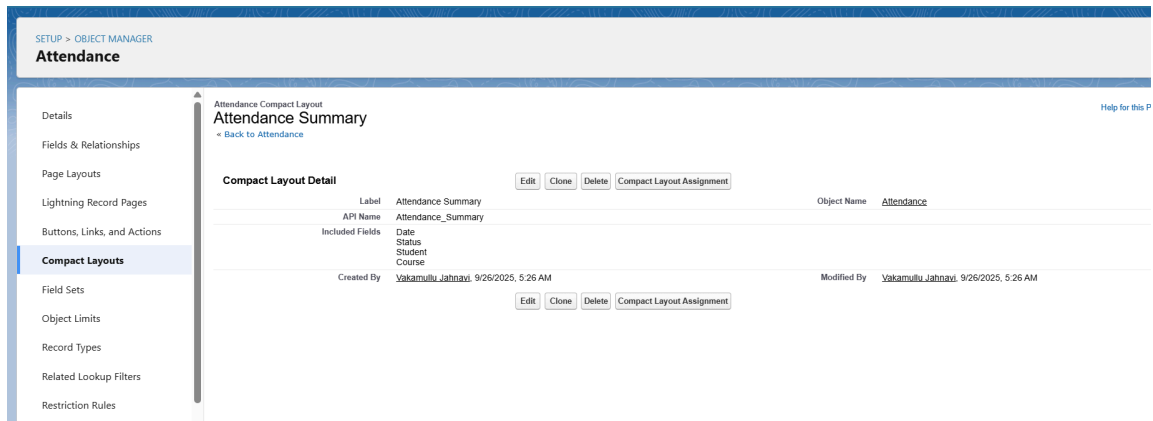
- Designed specific layouts per object and record type.
- Logical grouping of information for easy data entry (Date, Status for Attendance).



• Compact Layouts

- Designed specific layouts per object and record type.

- Logical grouping of information for easy data entry (Date, Status for Attendance).



• Schema Builder

- Used for visual mapping of objects and relationships.
- Helped validate data model connections between Attendance, Enrollment, Result.

• Lookup vs Master-Detail vs Hierarchical Relationships

- Lookup for loose links, e.g., Attendance to Student.
- Master-Detail for strong parent-child ties, e.g., Enrollment links Student & Course.
- Hierarchical for User-to-User relationships (less relevant here).

• Junction Objects

- Enrollment acts as junction object supporting many-to-many between Student & Course.