Phase 3: **Data Modeling & Relationships**
• Standard & Custom Objects

Standard Objects: Included Salesforce entities.

Custom Objects: Created to capture project-specific data:

- ● Attendance

- ● Result

- ## 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

• Fields

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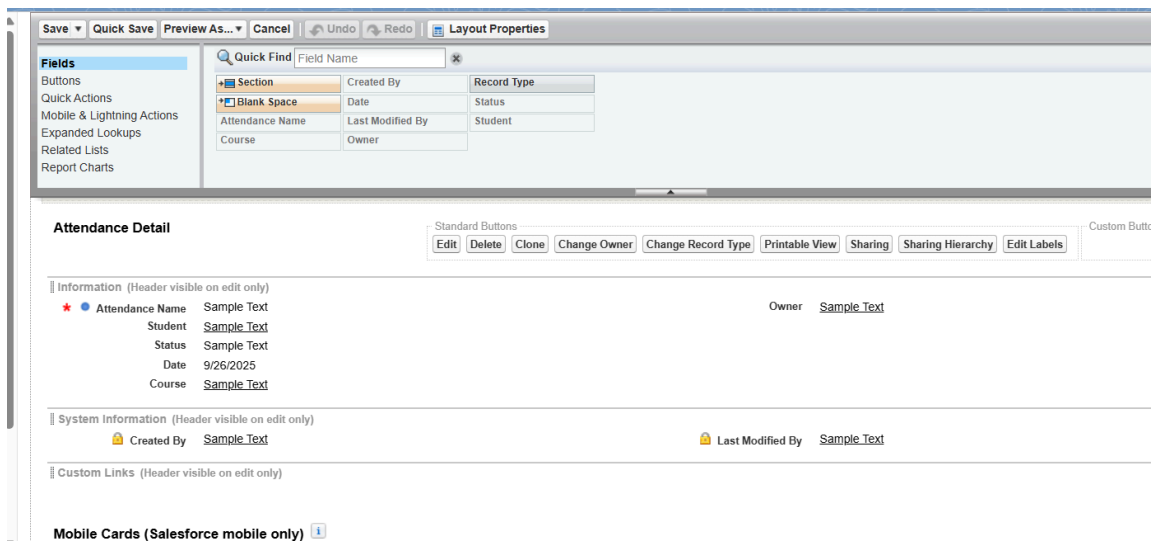

• Record Types

- Created record types to separate business processes.

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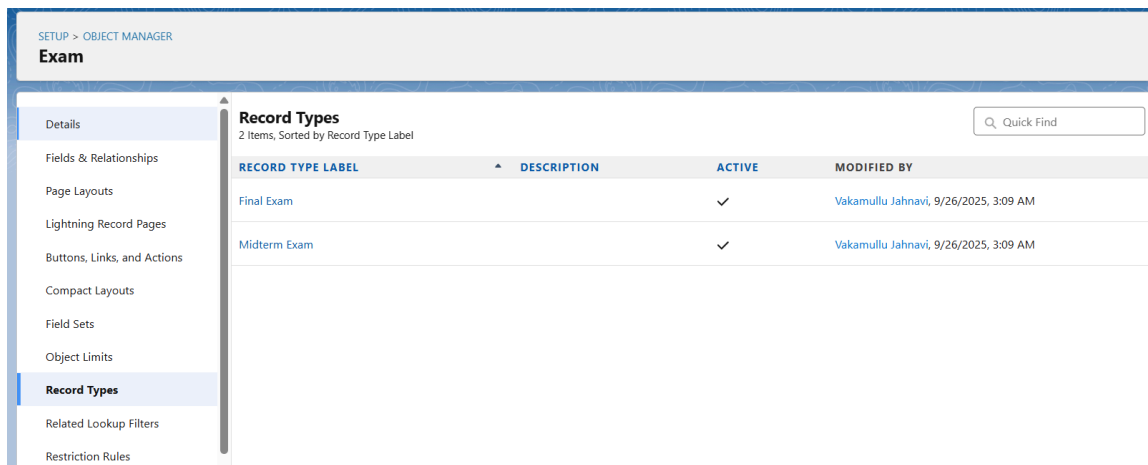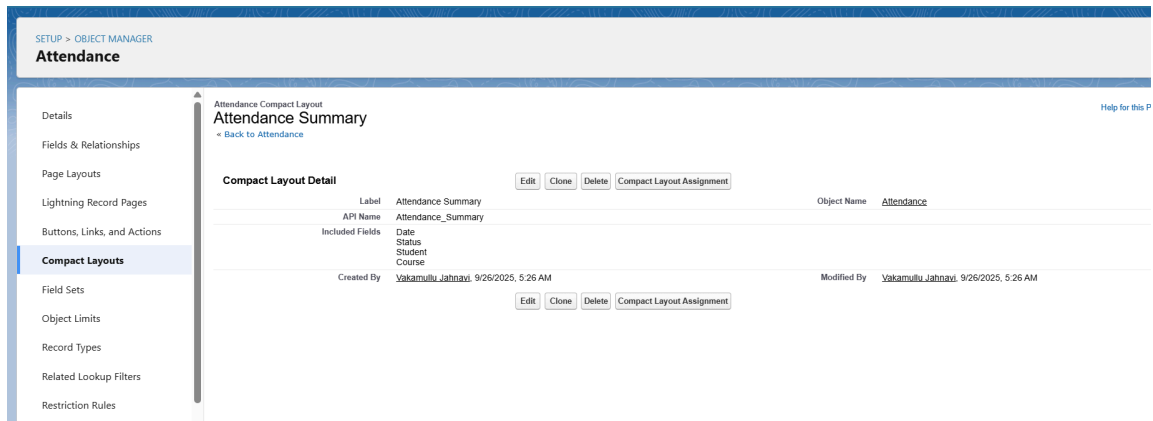

• Page Layouts

- 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.