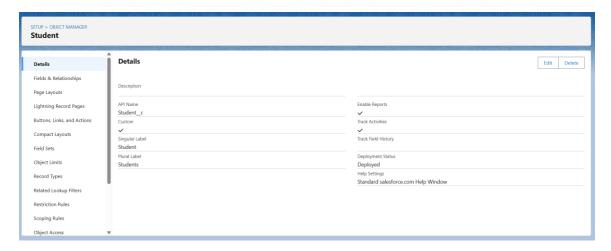
# Phase 3: Data Modeling & Relationships - Completion Report

## 1. Standard & Custom Objects

Custom objects created for the Assignment & Exam Management System include:

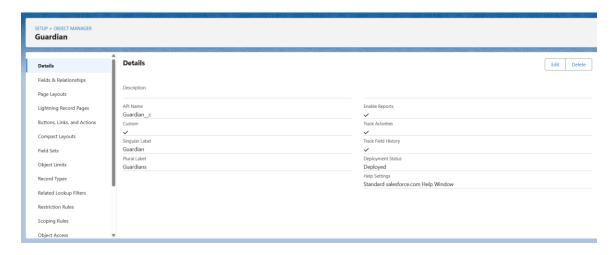
#### Student\_\_c

- Student ID (Text, External ID, Unique)
- First Name, Last Name, Email, Phone
- Guardian (Lookup), Guardian Name, Guardian Contact
- Owner, Created By, Modified By



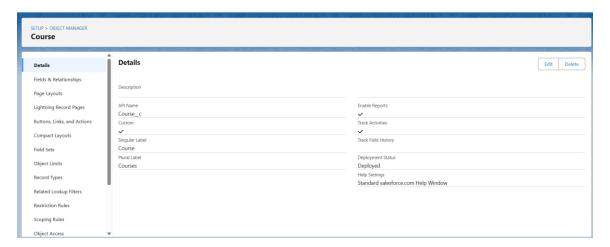
## Guardian\_\_c

- Guardian ID (Auto Number, External ID, Unique)
- First Name, Last Name, Email (Unique), Phone
- Relationship to Student (Picklist)
- Owner, Created By, Modified By



#### Course\_\_c

- Course Code (Unique), Name (Indexed)
- Credits, Instructor (Lookup), Schedule Info, Title
- Owner, Created By, Modified By



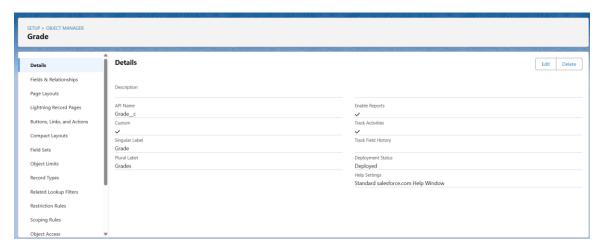
## Assignments\_\_c

- Assignment Name (Text)
- Course (Lookup Course), Description (Long Text), Due Date
- Max Marks, Title
- Owner, Created By, Modified By



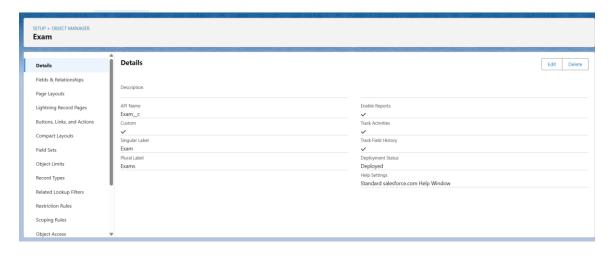
#### Grade c

- Grade Number (Auto Number)
- Enrollment (Lookup), Student (Lookup), Subject (Lookup Course)
- Teacher (Lookup), Marks, Grade Date
- Owner, Created By, Modified By



#### Exam\_\_c

- Exam Name (Text), Exam Date, Exam Type (Picklist)
- Duration, Max Marks
- Course (Lookup Course)
- Owner, Created By, Modified By



#### Submissions c

- Submission Number (Auto Number), Submitted By (Lookup Student), Submitted Date
- Assignment (Lookup), Exam (Lookup)
- Owner, Created By, Modified By

<u>Process Flow</u>: Setup  $\rightarrow$  Object Manager  $\rightarrow$  New Custom Object  $\rightarrow$  Add Fields. All objects were configured in the same way, with their respective fields as listed above.



# 2. Page Layouts

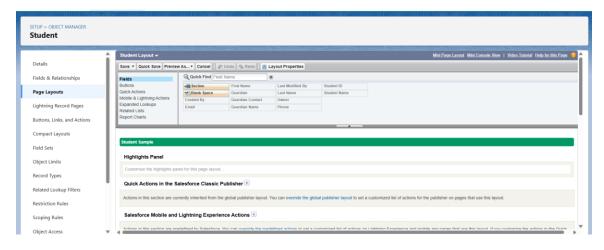
Configured for Student\_c as an example:

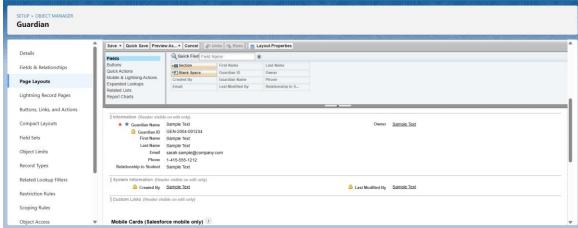
<u>Process Flow:</u> Setup  $\rightarrow$  Object Manager  $\rightarrow$  Student  $\rightarrow$  Page Layouts  $\rightarrow$  Student Layout  $\rightarrow$  Drag fields into sections  $\rightarrow$  Save.

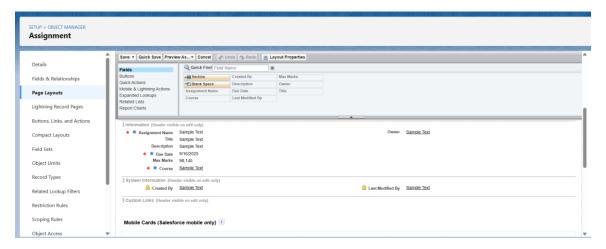
Student Layout: Student Information section (Student ID, First Name, Last Name, Email, Phone), Guardian Info section (Guardian Name, Guardian Contact).

Related Lists added: Guardians, Enrollments, Grades.

Other objects (Guardian, Course, Assignment, Exam, Submissions, Grade) were configured similarly with relevant fields and related lists.







# 3. Lookup vs Master-Detail vs Hierarchical Relationships

Lookup Relationship: Assignment linked to Course via Lookup.

Master-Detail Relationship: Exam-links to Student and Course.

Hierarchical Relationship: User roles such as Teacher under Academic\_Admin.