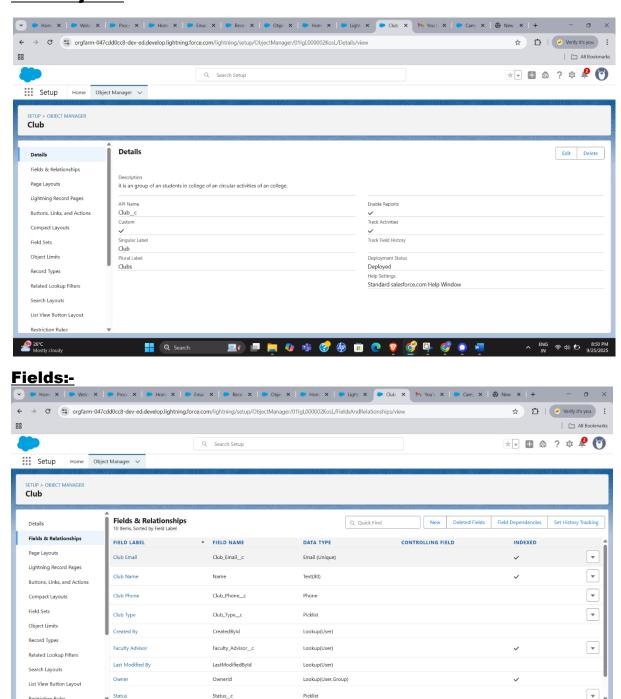
Phase 3: Data Modeling & Relationships(Campus CRM + Student Club)

Screenshots:-

Club Object:-

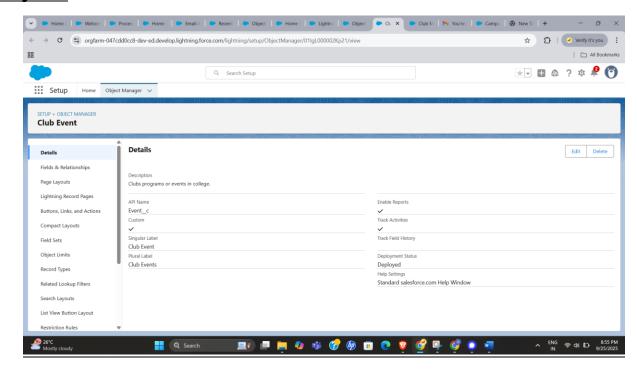


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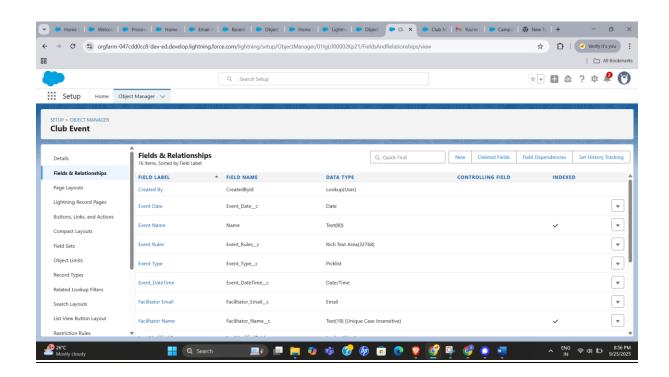
Q Search

Club Event(custom object):-

Object:-

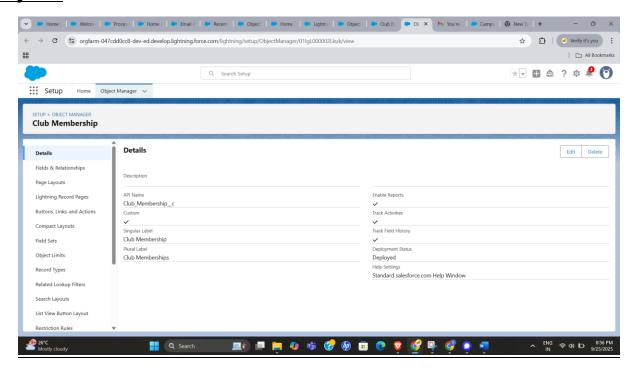


Fields & Relationships:-

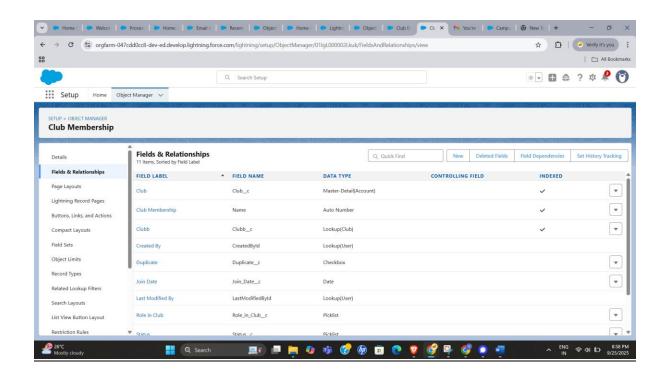


Club Membership (custom object):-

Object:-

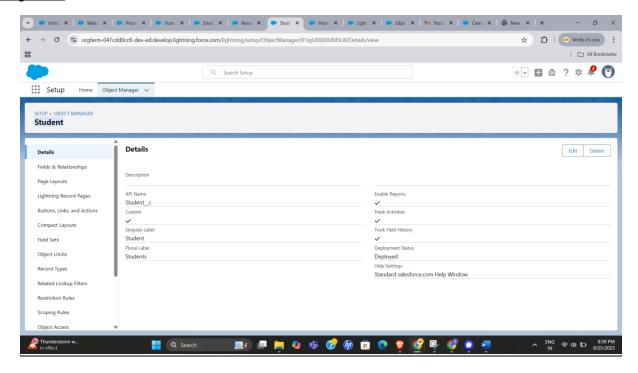


Fields & Relationships :-

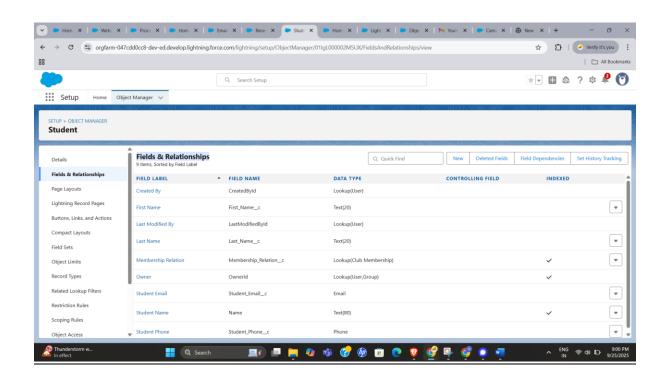


Student (custom object):-

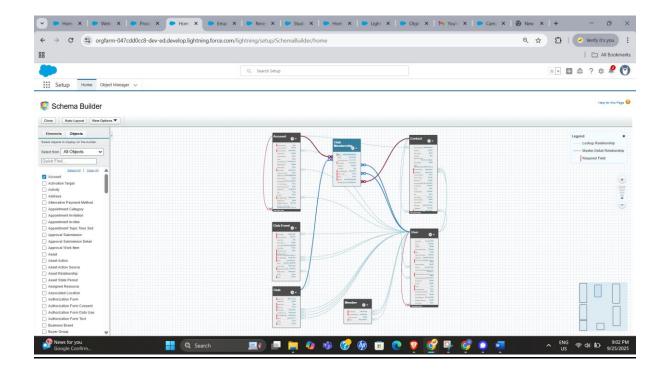
Object:-



Fields & Relationships:-



Schema Builder:-



Documentation:-

Standard & Custom Objects

- Standard Objects Utilized:
 - o **Club**: Used to represent Clubs.
 - o **Student:** Used to represent Students, linked to Clubs through memberships.
- Custom Objects Created:
 - ClubMembership_c: Junction object to link Students (Contact) and Clubs (Account).
 - ClubEvent__c: Custom object to represent Events hosted by Clubs.
- **Notes:** External Objects were not implemented in Developer Edition but are explained below for extension.

Fields

Student :Name__c, Email__c, Phone__c,Address__c

- **Club**:Club_Type__c, Faculty_Advisor__c, Club_Email__c, Description__c
- **ClubMembership_c:** Role_in_Club__c, Joining_Date__c, Membership_Status__c, Notes__c
- ClubEvent__c: Event_DateTime__c, Registration_Deadline__c, Venue__c, Event_Type__c, Status__c,

Record Types

- ClubEvent c:
 - Workshop
 - o Seminar
 - Competition
 - Cultural Event
- Notes: Record types were created to allow separate page layouts and picklist variations for different scenarios.

Page Layouts

- Club:
 - Fields grouped as Club Information, Faculty Advisor, and Contact Info.
 - Related lists: Events, Memberships.
- Student:
 - o Sections: Personal Details, Academic Info, Memberships, Event Participation.
 - Related list: Club Memberships.
- ClubEvent__c:
 - o Event Details, Venue, Capacity, Status.
 - o Related lists: Volunteers, Registered Students.
- **Volunteer__c:** Volunteer details with linked Student and Event.
- ClubMembership_c: Joining Date, Role, Membership Status, linked Student and Club.

Compact Layouts

- Club: Displayed Club Name, Club Type, Faculty Advisor, Active Status.
- Student :Displayed Name, Branch, Year, Skills.
- ClubEvent_c: Displayed Event Name, Date, Venue, Status.

• **ClubMembership_c:** Displayed Student Name, Role, Membership Status.

Schema Builder

- Used to visualize object relationships.
- Showed Student linked to Club through ClubMembership_c (junction object).
- ClubEvent_c linked to Club, and Volunteer_c connected with both Event and Student.
- This schema diagram was saved and included in project documentation for clarity.

Lookup vs Master-Detail vs Hierarchical Relationships

- Master-Detail Relationships Implemented:
 - \circ ClubMembership_c → Club
 - o ClubMembership_c → Student
- Lookup Relationships Implemented:
 - o ClubEvent__c → Club
- **Hierarchical Relationship:** Not applicable (only works on User object). A **hierarchical relationship** is a ranked structure with levels of authority.

Junction Objects

- **ClubMembership_c:** Primary junction object linking Students and Clubs.
- Enabled many-to-many relationship:
 - o One Student can join multiple Clubs.
 - One Club can have multiple Students.

External Objects

- Not implemented in Developer Edition.
- Explained as a possible extension:
 - External Object "ExternalEvent__x" could be integrated using Salesforce Connect to sync events hosted by partner institutions.
 - o Read-only access to external data while keeping CampusConnect records clean.

Key Outcomes of Phase 3

- Robust data model created to represent Clubs, Students, Memberships, Events, and Volunteers.
- Many-to-many relationships managed through ClubMembership junction object.
- Different **page layouts and record types** enhanced user experience for students, club leaders, and faculty.
- Compact layouts and schema visualization simplified navigation and reporting.
- Extended explanation included for External Objects and Hierarchical relationships, even if not implemented.