

Introduction

Define and implement the data structure of Library Connect to link Members, Book Loans and Books. Configure record types, page layouts, navigation tabs and security so that each role (Admin, Librarian, Member) can perform its tasks.

1. Standard & Custom Objects

❖ Contact

- Used to store student information such as Date of Birth, Roll Number/Student ID, Contact Details.

❖ Teacher

- Captures teacher information and tracks their classes/sessions. Includes fields for Subjects Taught, Qualifications, Availability/Timings, and lookup to Student (Contact) for assigned students or mentoring relationships.

❖ Student

- Tracks student academic cases like Performance, Issues, or Counseling. Includes fields for Description, Plan/Action, Status, and lookups to Student (Contact) and Teacher (User).

2. Fields

Student – Stores key student details (name, DOB, ID, contact, class, status) and links them to book loans, courses, and mentors to track borrowing and enrollment.

Teacher – Stores main teacher details (name, DOB, ID, subject, contact, status) and links them to students, classes, and book loans to show who teaches or approves activities.

Setup

HomeObject Manager

Search Setup

Star

Plus

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Student

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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

Fields & Relationships

4 Items, Sorted by Field Label

Q Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Student Name	Name	Text(80)		✓

Student

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Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Fields & Relationships

10 Items, Sorted by Field Label

Q Quick Find

New

Deleted Fields

Field Dependencies

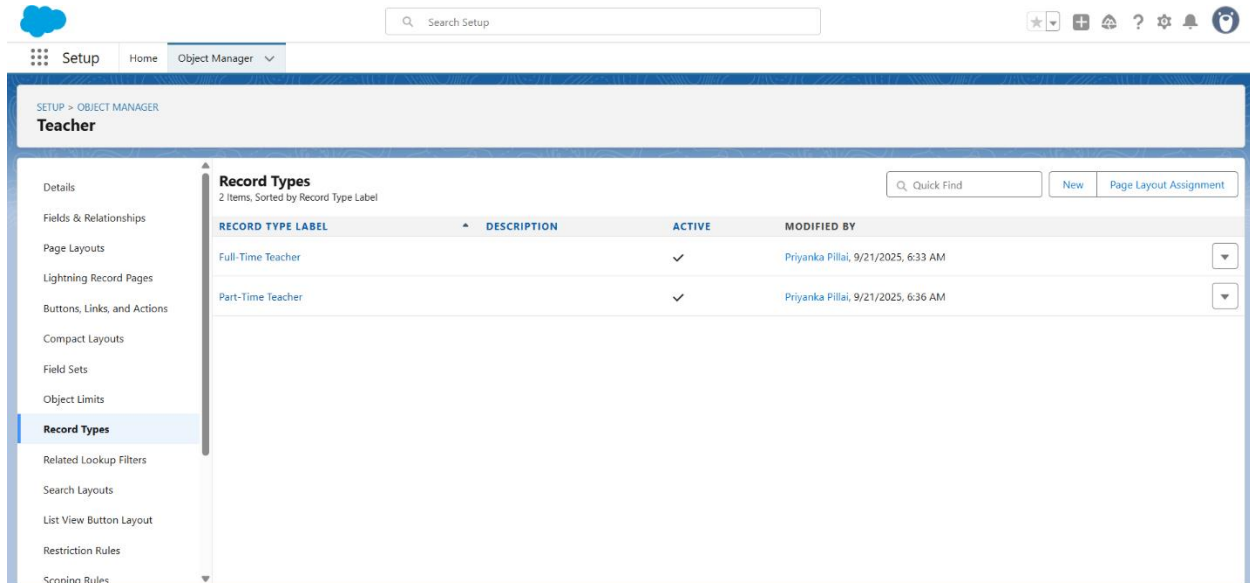
Set History Tracking

Contact	Contact__c	Lookup(Contact)		✓
Created By	CreatedById	Lookup(User)		
Date Of Birth	Date_Of_Birth__c	Date		
Email	Email__c	Email (Unique)		✓
Employee ID	Employee_ID__c	Text(10)		
Joining Date	Joining_Date__c	Date		
Last Modified By	LastModifiedById	Lookup(User)		
Mentor	Mentor__c	Master-Detail(Mentor)		✓
Subject Specialization	Subject_Specialization__c	Picklist		
Teacher Name	Name	Text(80)		✓

Teacher

3. Record Types

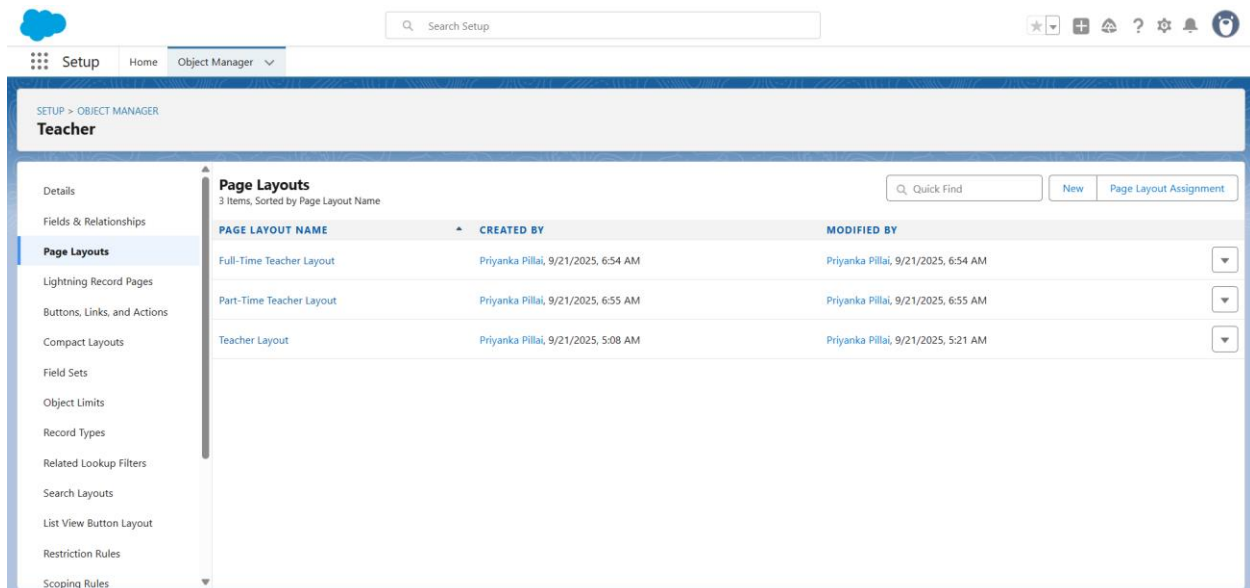
- Teacher record types: Full-Time Teacher and Part-Time Teacher
- Separate page layouts exist for each record type to show relevant fields.



The screenshot shows the Salesforce Setup interface for the 'Teacher' object. The left sidebar lists various setup options, with 'Record Types' selected. The main content area displays a table of record types for the 'Teacher' object. The table has columns for 'RECORD TYPE LABEL', 'DESCRIPTION', 'ACTIVE', and 'MODIFIED BY'. There are two record types listed: 'Full-Time Teacher' and 'Part-Time Teacher', both of which are active and were modified by 'Priyanka Pillai' on 9/21/2025.

RECORD TYPE LABEL	DESCRIPTION	ACTIVE	MODIFIED BY
Full-Time Teacher		✓	Priyanka Pillai, 9/21/2025, 6:33 AM
Part-Time Teacher		✓	Priyanka Pillai, 9/21/2025, 6:36 AM

Teacher Record Types

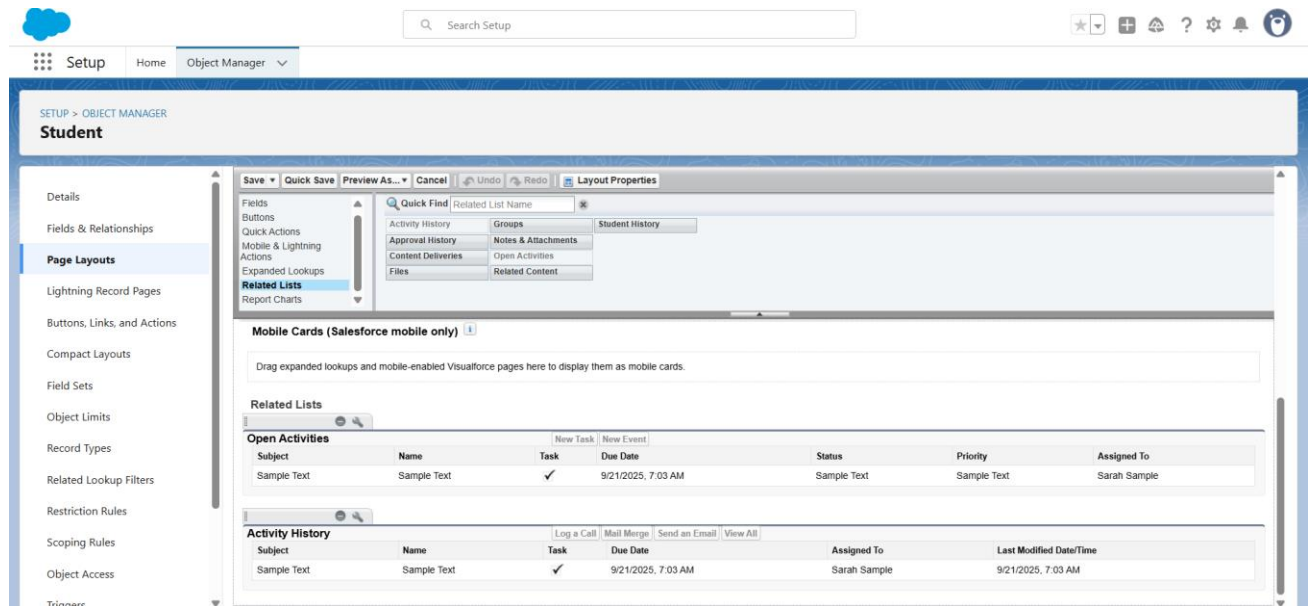


The screenshot shows the Salesforce Setup interface for the 'Teacher' object, specifically the 'Page Layouts' section. The left sidebar lists various setup options, with 'Page Layouts' selected. The main content area displays a table of page layouts for the 'Teacher' object. The table has columns for 'PAGE LAYOUT NAME', 'CREATED BY', and 'MODIFIED BY'. There are three page layouts listed: 'Full-Time Teacher Layout', 'Part-Time Teacher Layout', and 'Teacher Layout', all of which were created and modified by 'Priyanka Pillai' on 9/21/2025.

PAGE LAYOUT NAME	CREATED BY	MODIFIED BY
Full-Time Teacher Layout	Priyanka Pillai, 9/21/2025, 6:54 AM	Priyanka Pillai, 9/21/2025, 6:54 AM
Part-Time Teacher Layout	Priyanka Pillai, 9/21/2025, 6:55 AM	Priyanka Pillai, 9/21/2025, 6:55 AM
Teacher Layout	Priyanka Pillai, 9/21/2025, 5:08 AM	Priyanka Pillai, 9/21/2025, 5:21 AM

Teacher page layout

4. Page Layouts & Related Lists



SETUP > OBJECT MANAGER

Student

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Save Quick Save Preview As... Cancel Undo Redo Layout Properties

Quick Find Related List Name

Activity History Groups Student History

Approval History Notes & Attachments

Content Deliveries Open Activities

Files Related Content

Mobile Cards (Salesforce mobile only)

Drag expanded lookups and mobile-enabled Visualforce pages here to display them as mobile cards.

Related Lists

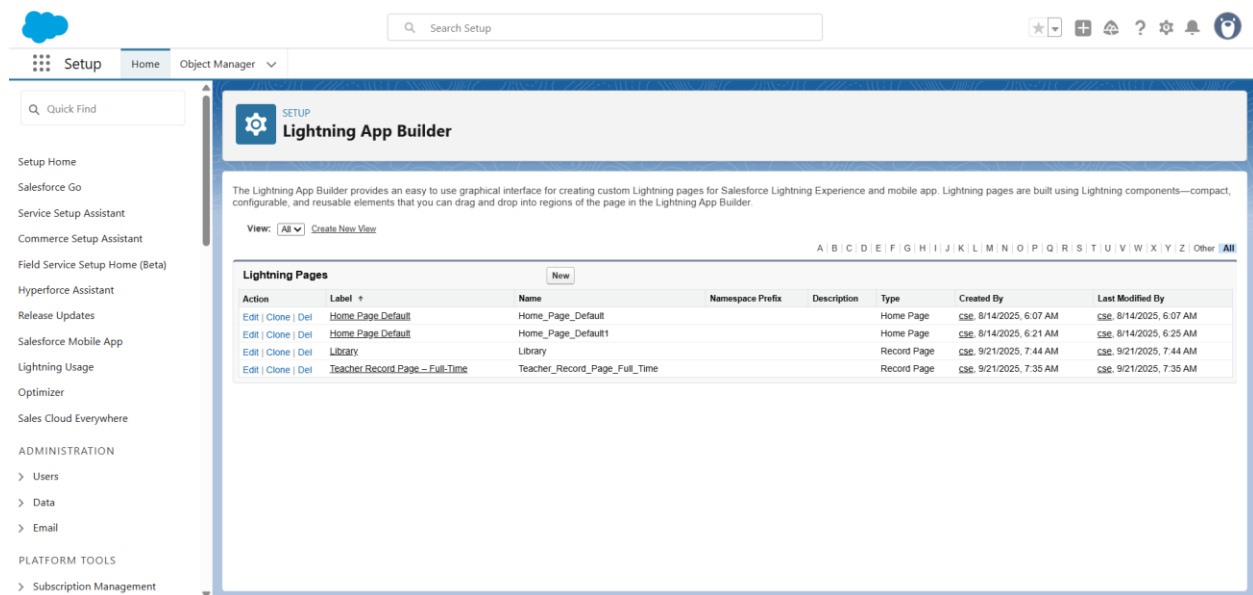
Open Activities

Subject	Name	Task	Due Date	Status	Priority	Assigned To
Sample Text	Sample Text	✓	9/21/2025, 7:03 AM	Sample Text	Sample Text	Sarah Sample

Activity History

Subject	Name	Task	Due Date	Assigned To	Last Modified Date/Time
Sample Text	Sample Text	✓	9/21/2025, 7:03 AM	Sarah Sample	9/21/2025, 7:03 AM

5. Lightning Record Pages & Compact Layouts



SETUP

Lightning App Builder

The Lightning App Builder provides an easy-to-use graphical interface for creating custom Lightning pages for Salesforce Lightning Experience and mobile app. Lightning pages are built using Lightning components—compact, configurable, and reusable elements that you can drag and drop into regions of the page in the Lightning App Builder.

View: All Create New View

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

Lightning Pages

Action	Label	Name	Namespace Prefix	Description	Type	Created By	Last Modified By
Edit Clone Del	Home_Page_Default	Home_Page_Default			Home Page	csc, 8/14/2025, 6:07 AM	csc, 8/14/2025, 6:07 AM
Edit Clone Del	Home_Page_Default	Home_Page_Default1			Home Page	csc, 8/14/2025, 6:21 AM	csc, 8/14/2025, 6:25 AM
Edit Clone Del	Library	Library			Record Page	csc, 9/21/2025, 7:44 AM	csc, 9/21/2025, 7:44 AM
Edit Clone Del	Teacher_Record_Page - Full-Time	Teacher_Record_Page_Full_Time			Record Page	csc, 9/21/2025, 7:35 AM	csc, 9/21/2025, 7:35 AM

➤ Library

- Custom Lightning Record Pages created for Library to give Librarians and Students tailored views.
- Compact Layouts show key Library fields (Book Title, Author, Availability, Genre) for quick glance.

The screenshot shows the Salesforce Lightning App Builder interface. The left sidebar contains navigation links for Setup, Home, Object Manager, and various tools. The main content area displays the 'Library_Record_Page_Full_Time' Lightning Page configuration. The 'Information' section shows the page name, label, and description. The 'Assignments By App' section shows no assignments. The 'Assignments By App, Record Type, and Profile' section shows a table of assignments.

App	Record Type	Profile	Form Factor
Library Management	Master	Identity User	Desktop and phone
Library Management	Master	Librarian	Desktop and phone
Library Management	Master	Standard User	Desktop and phone
Library Management	Master	System Administrator	Desktop and phone
Library Management	Master	Teacher	Desktop and phone
Library Management	Master	Test Profile	Desktop and phone

➤ Teacher

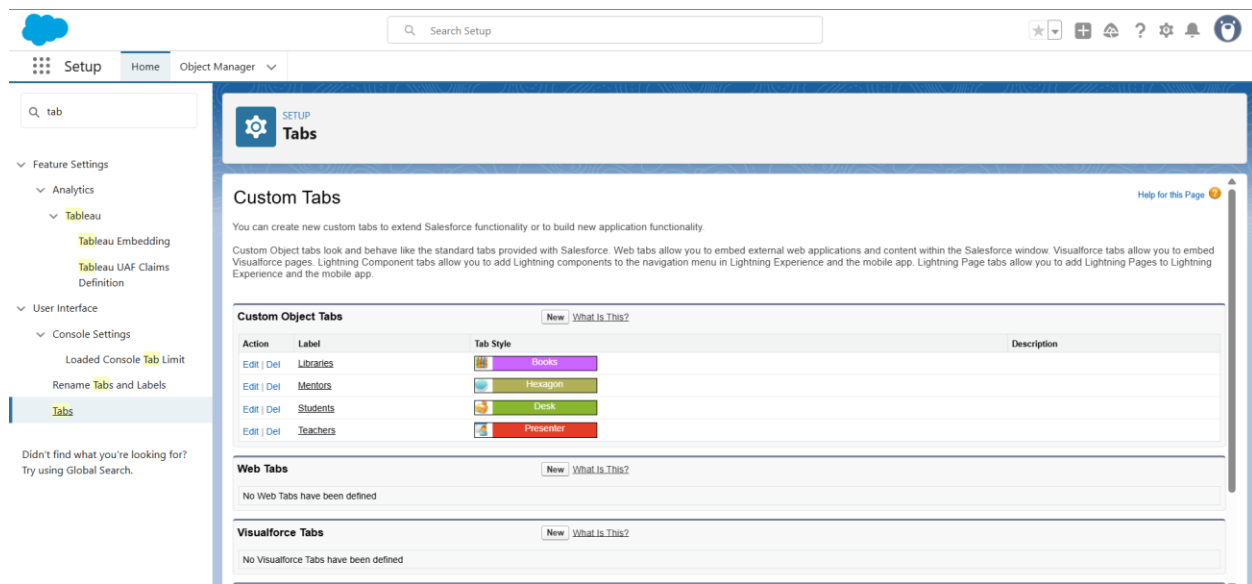
- Custom Lightning Record Pages created for Teacher to give Admins and Staff tailored views.
- Compact Layouts show key Teacher fields (Name, Subject, Class, Contact) for quick glance.

The screenshot shows the Salesforce Lightning App Builder interface for the 'Teacher_Record_Page_Full_Time' Lightning Page. The 'Information' section shows the page name, label, and description. The 'Assignments By App' section shows no assignments. The 'Assignments By App, Record Type, and Profile' section shows a table of assignments.

App	Record Type	Profile	Form Factor
Library Management	Full-Time Teacher	Librarian	Desktop and phone
Library Management	Full-Time Teacher	Standard User	Desktop and phone
Library Management	Full-Time Teacher	System Administrator	Desktop and phone
Library Management	Full-Time Teacher	Teacher	Desktop and phone
Library Management	Full-Time Teacher	Test Profile	Desktop and phone

6. Tabs & App Navigation

- **Teacher**
- **Tabs & Navigation: Teachers, Students, Classes, Attendance, Reports. Custom tab for Teachers.**
- **Library**
- **Tabs & Navigation: Library, Books, Students, Issued Books, Reports. Custom tab for Library.**



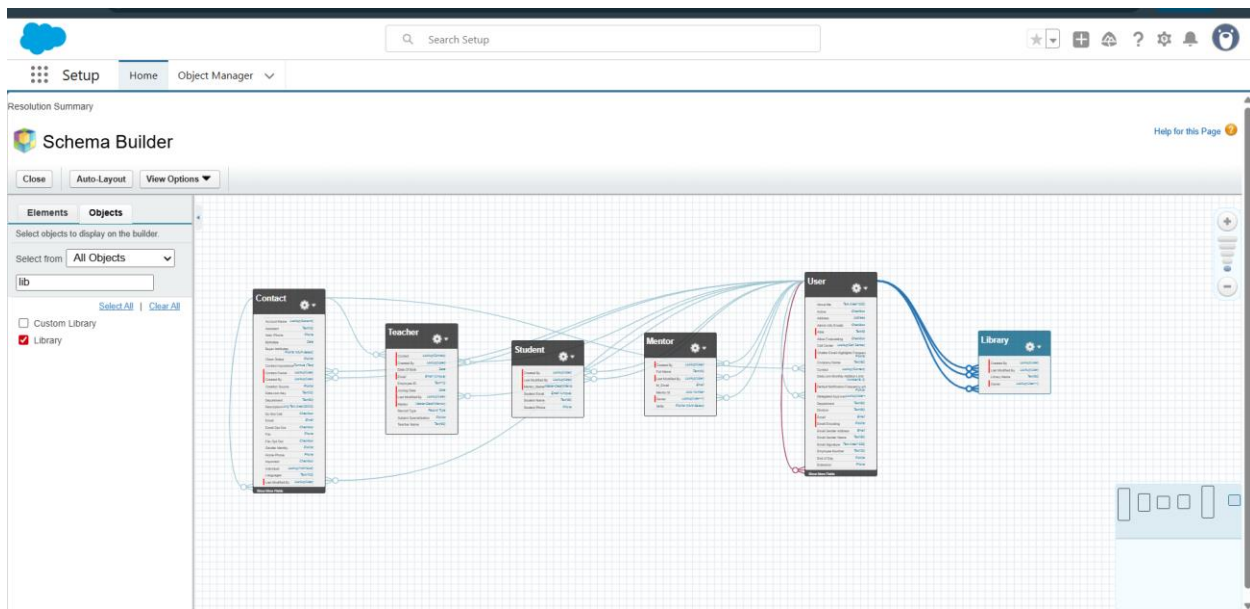
7. Schema Builder (ERD)

Teacher

Schema Builder (ERD): Displays Teacher, Student, Class, and User objects with lookup relationships. Teacher is central, linked to Classes and Students.

Library

Schema Builder (ERD): Displays Library, Book, Student, and User objects with lookup relationships. Library is central, linked to Books and Students.



8. Security & Field-Level Visibility :

- Teacher profile has Read/Create/Edit on Student and Class records.
- Librarian profile has Read/Create/Edit on Library and Book records, but read-only on Student records.
- Sensitive fields like Salary or Private Notes hidden from Librarian profile.
- Mentor profile can view assigned Students and Classes but cannot edit Library records.

9. Sample Data & Testing :

- Sample Students and Teachers created with details like Name, Class, and Contact info.
- Library records (Books) created by Librarian, linked to Students and Teachers with record type "Issued" or "Available."
- Mentor records created and linked to Students for guidance tracking.
- Teacher login view shows Classes and Students; Student record shows related lists (Books issued, Mentor info).

10. Current System Behaviour :

- **Library records link both Students and Teachers for issuing/tracking books.**
- **Mentors hold guidance/notes information linked to the same Students.**
- **Record types like Issued Book and Available Book display appropriate layouts.**
- **Student records show all related Classes, Library records, and Mentor assignments.**
- **Teachers can view Students and Classes assigned to them.**
- **Librarians can create Library records and view limited Student info.**
- **The Schema Builder ERD reflects the current relationships between Teacher, Library, Mentor, Student, and User.**