

NAAN MUDHALVAN
SALESFORCE DEVELOPER PROJECT REPORT

PROJECT TITLE: CREATION OF AN APPLICATION FOR SCHOOL
MANAGEMENT

COLLEGE: PONJESLY COLLEGE OF ENGINEERING.

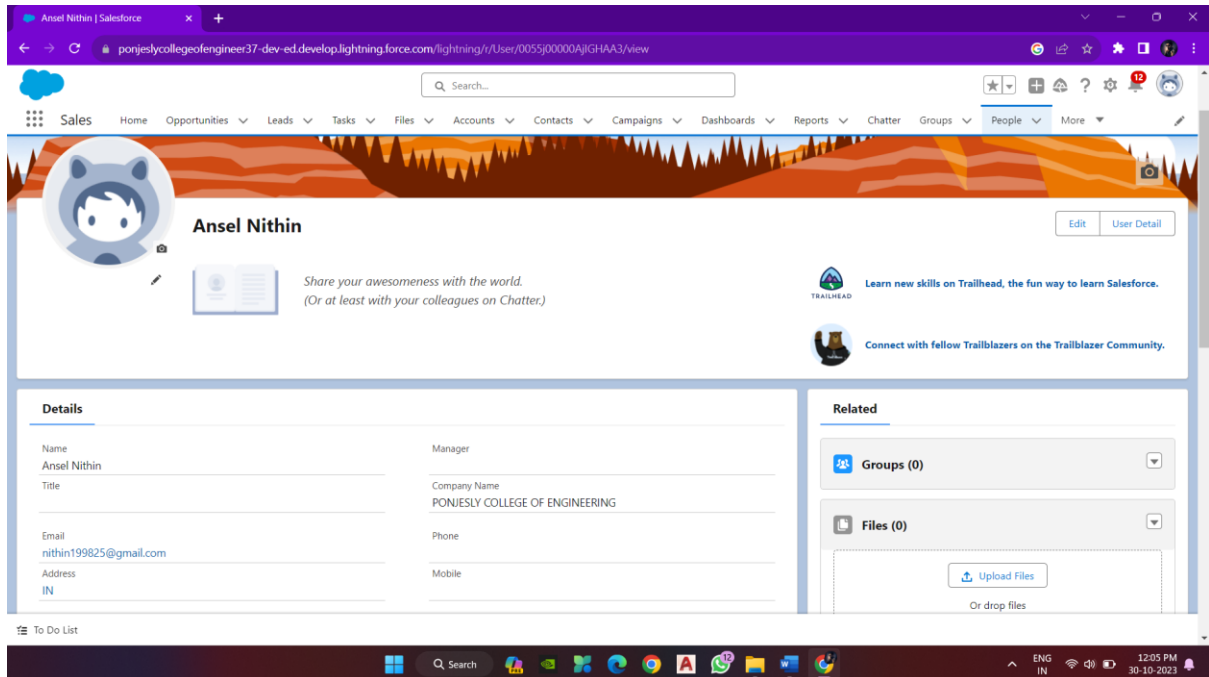
DONE BY:

ANSEL NITHIN.K

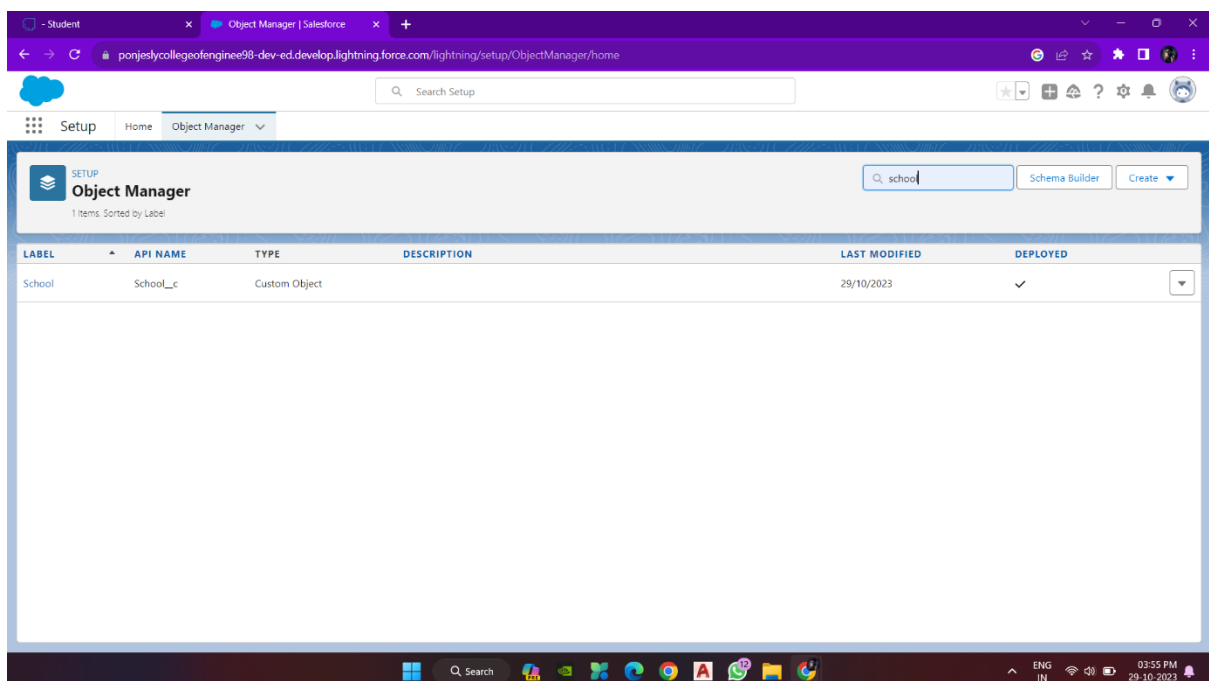
REG NO: 961820114022

NM ID: C0EBAA079DD2410B4D14DB798905857A

STEP 1 : Create a Salesforce Account



STEP 2 : Create the Objects (School, Student, Parent)



Student | Object Manager | Salesforce

ponjeslycollegeofenginee98-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/home

Search Setup

Setup Home Object Manager

Object Manager

1 Items. Sorted by Label

Parent

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Parent	Parent__c	Custom Object		29/10/2023	✓

Schema Builder Create

ENG IN 03:55 PM 29-10-2023

Student | Object Manager | Salesforce

ponjeslycollegeofenginee98-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/home

Search Setup

Setup Home Object Manager

Object Manager

1 Items. Sorted by Label

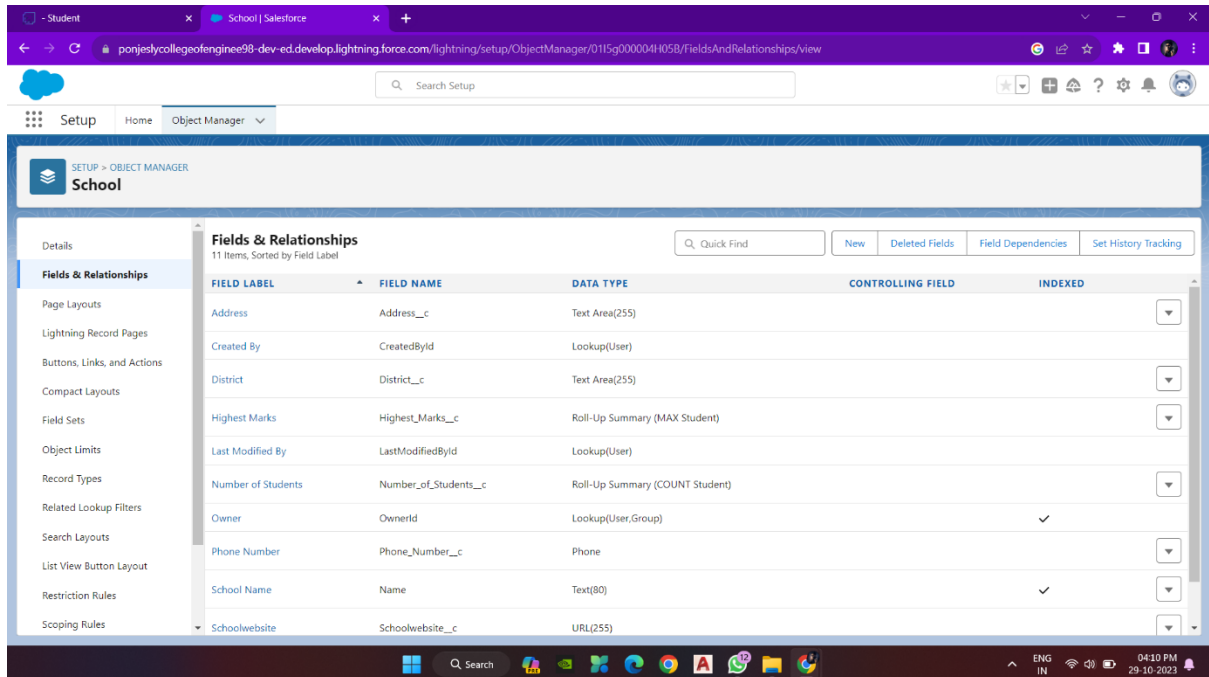
Student

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Student	Student__c	Custom Object		29/10/2023	✓

Schema Builder Create

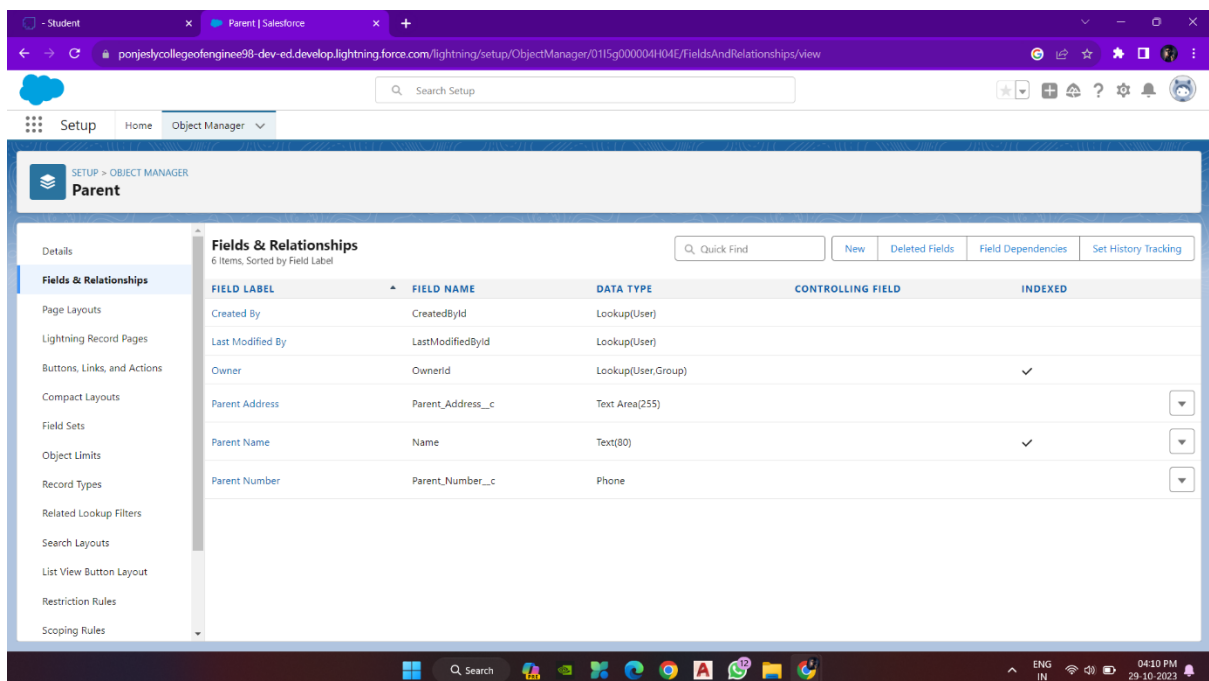
ENG IN 03:55 PM 29-10-2023

STEP 3 : Create Fields for respective objects (Schools, Student, Parents)



The screenshot shows the Salesforce Setup interface for the 'School' object. The 'Fields & Relationships' section is active, displaying a list of 11 fields. The left sidebar shows the navigation menu with 'Fields & Relationships' selected. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The bottom status bar shows the user is logged in as 'Student' and the date is 04:10 PM on 29-10-2023.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text Area(255)		
Created By	CreatedById	Lookup(User)		
District	District__c	Text Area(255)		
Highest Marks	Highest_Marks__c	Roll-Up Summary (MAX Student)		
Last Modified By	LastModifiedById	Lookup(User)		
Number of Students	Number_of_Students__c	Roll-Up Summary (COUNT Student)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone Number	Phone_Number__c	Phone		
School Name	Name	Text(80)		✓
Schoolwebsite	Schoolwebsite__c	URL(255)		



The screenshot shows the Salesforce Setup interface for the 'Parent' object. The 'Fields & Relationships' section is active, displaying a list of 6 fields. The left sidebar shows the navigation menu with 'Fields & Relationships' selected. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The bottom status bar shows the user is logged in as 'Student' and the date is 04:10 PM on 29-10-2023.

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)		✓
Parent Address	Parent_Address__c	Text Area(255)		
Parent Name	Name	Text(80)		✓
Parent Number	Parent_Number__c	Phone		

The screenshot shows the Salesforce Setup interface for the 'Student' object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, and Scoping Rules. The main content area is titled 'Fields & Relationships' and shows a table of 9 items, sorted by Field Label. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are Class, Created By, E-Mail, Last Modified By, Marks, Phone Number, Results, School, and Student Name.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Class	Class__c	Number(8, 2)		
Created By	CreatedById	Lookup(User)		
E-Mail	E_Mail__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Marks	Marks__c	Number(8, 2)		
Phone Number	Phone_Number__c	Phone		
Results	Results__c	Picklist		
School	School__c	Master-Detail(School)		✓
Student Name	Name	Text(80)		✓

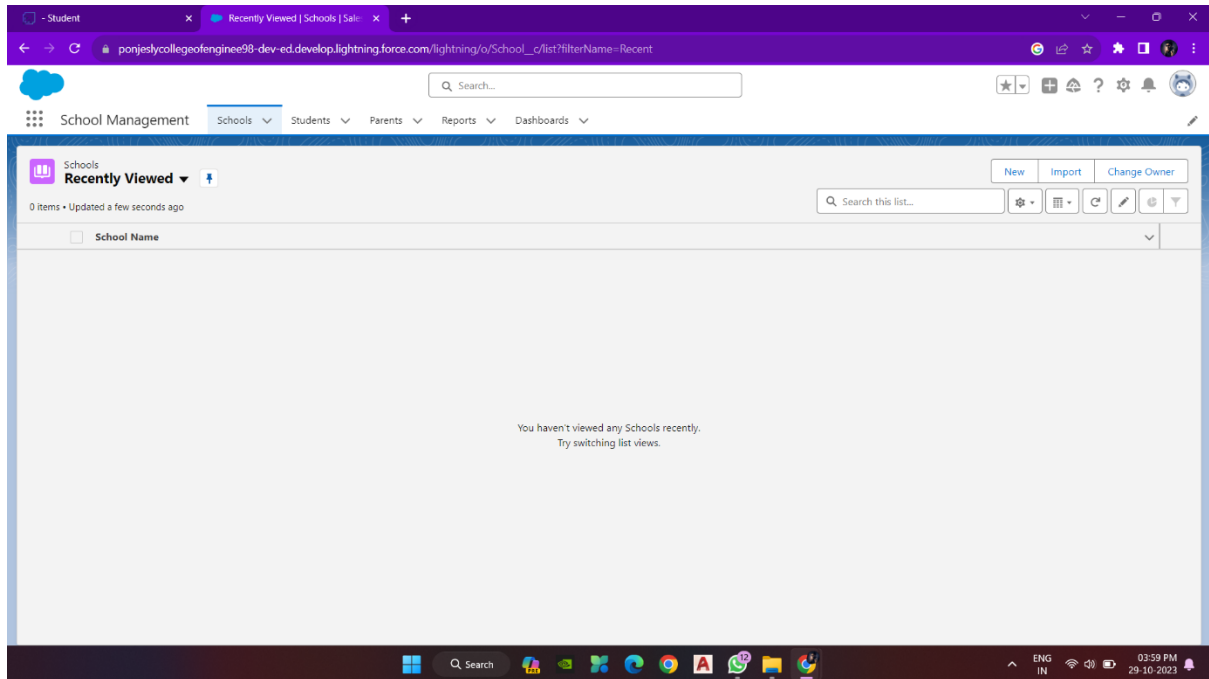
STEP 4 : Create the Tabs for each object (School, Student, Parent)

The screenshot shows the Salesforce Setup interface for the 'Tabs' section. The left sidebar contains a navigation menu with options like User Interface, Rename Tabs and Labels, and Tabs. The main content area is titled 'Custom Tabs' and shows a table of Custom Object Tabs. The table has columns for Action, Label, Tab Style, and Description. The tabs listed are Parents, Schools, and Students.

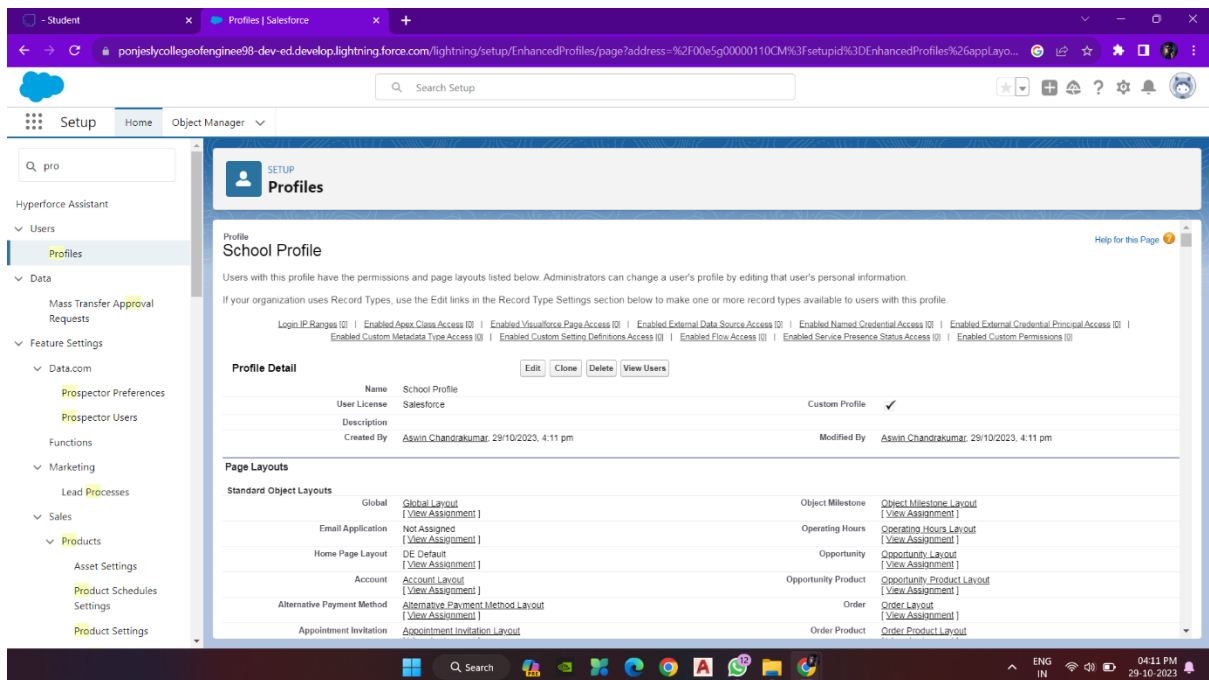
Action	Label	Tab Style	Description
Edit Del	Parents	Bank	
Edit Del	Schools	Books	
Edit Del	Students	Laptop	

Below the Custom Object Tabs table, there are sections for Web Tabs, Visualforce Tabs, and Lightning Component Tabs, each with a 'New' button and a 'What is This?' link.

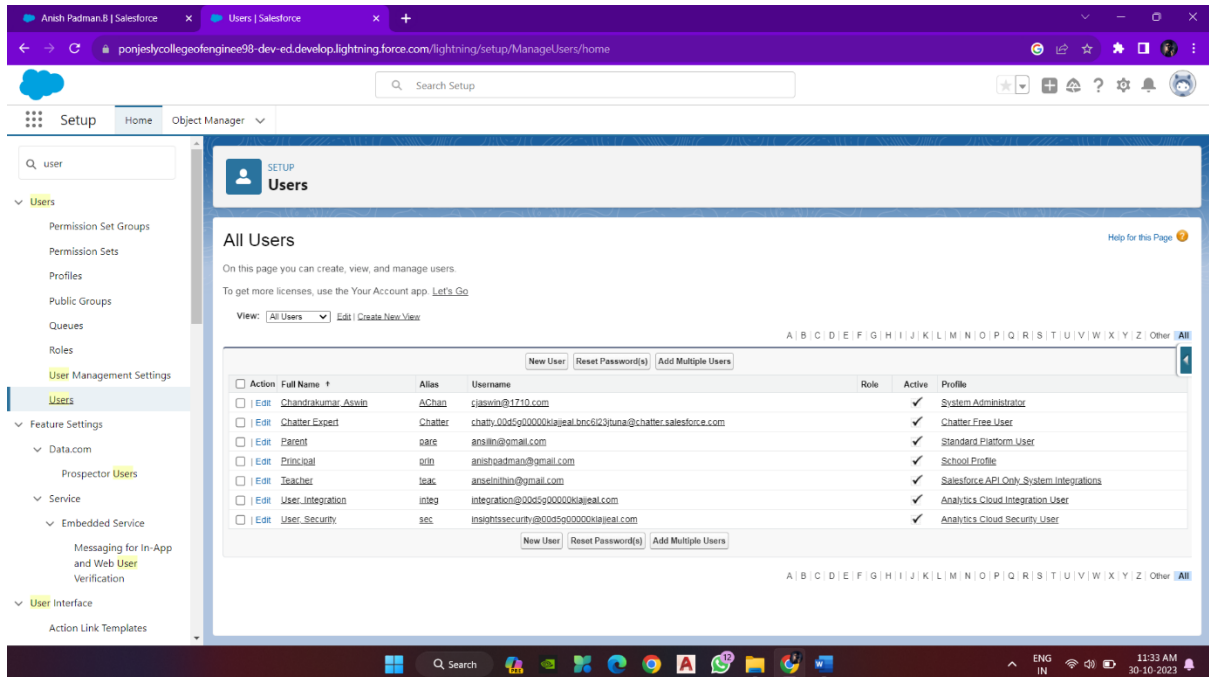
STEP 5 : Create a Lightning App



STEP 6 : Create the School Profile



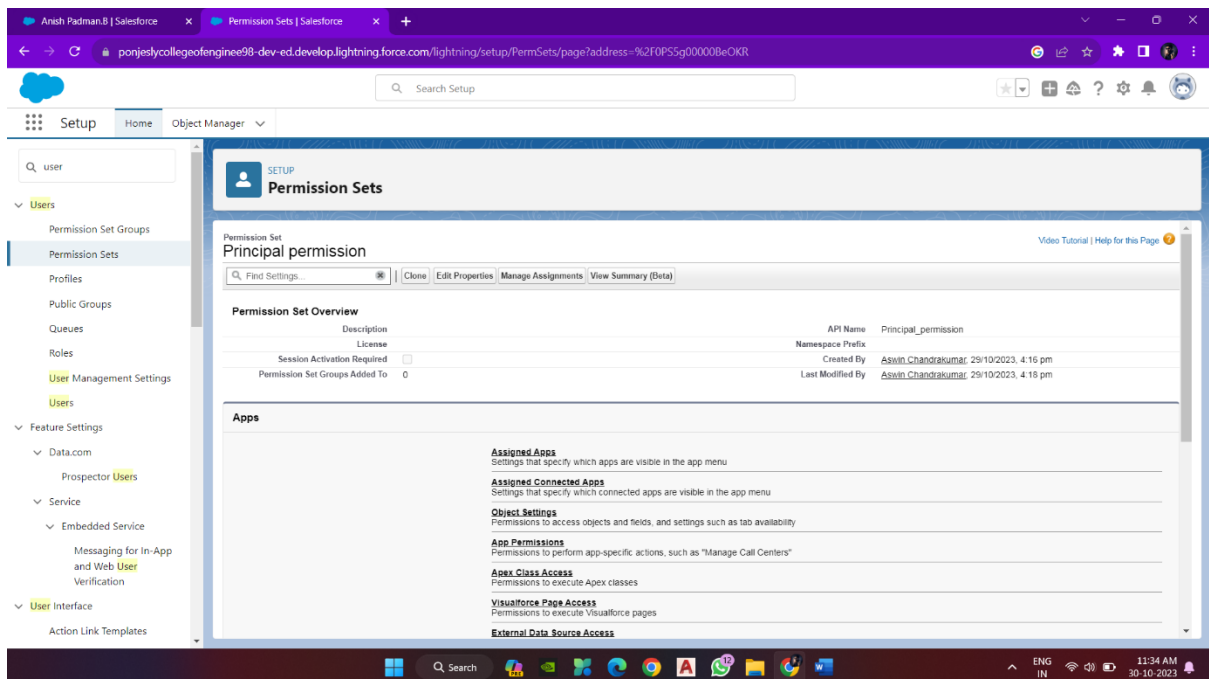
STEP 7 : Create the Users (Teacher, Parent, Principal)



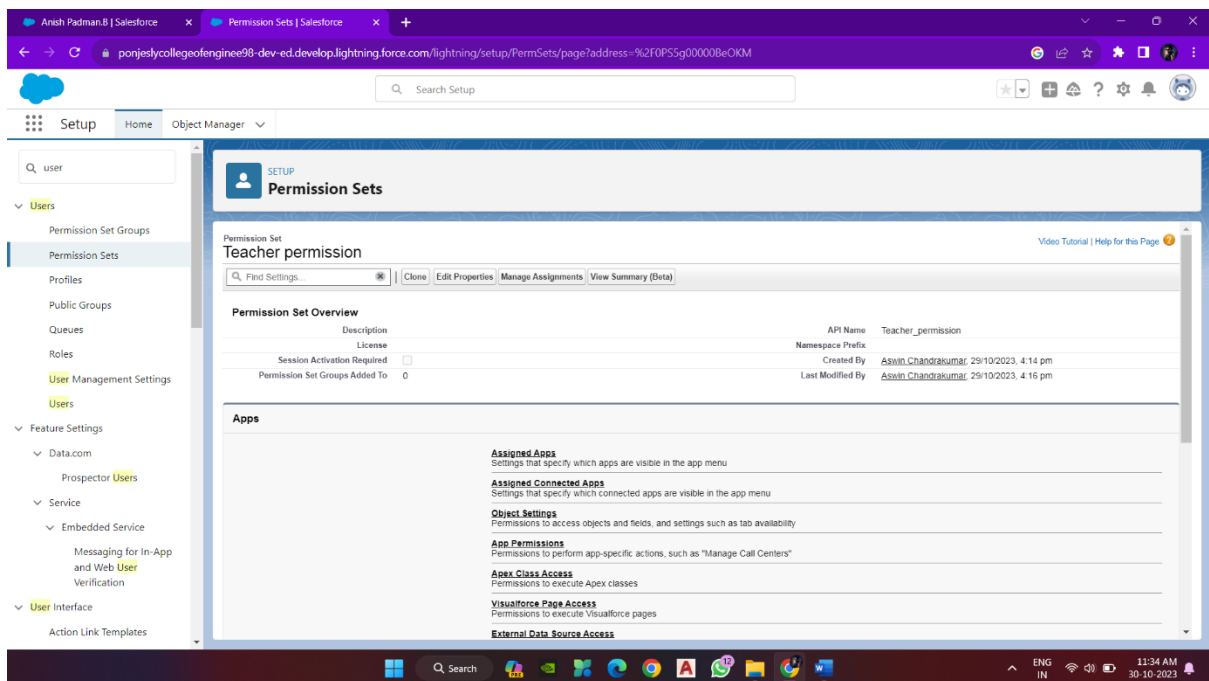
The screenshot shows the Salesforce Setup interface for the 'Users' section. The left sidebar contains a navigation menu with options like 'Users', 'Permission Set Groups', 'Permission Sets', 'Profiles', 'Public Groups', 'Queues', 'Roles', 'User Management Settings', 'Users', 'Feature Settings', 'Data.com', 'Prospector Users', 'Service', 'Embedded Service', 'Messaging for In-App and Web User Verification', 'User Interface', and 'Action Link Templates'. The main content area is titled 'All Users' and includes a search bar, a 'View' dropdown set to 'All Users', and buttons for 'New User', 'Reset Password(s)', and 'Add Multiple Users'. Below these is a table listing users with columns for Action, Full Name, Alias, Username, Role, Active, and Profile. The table contains several users, including 'Chandrasekhar Aswin', 'Chatter Expert', 'Parent', 'Principal', 'Teacher', 'User Integration', and 'User Security'. The bottom of the screen shows a Windows taskbar with various application icons and system information like 'ENG IN' and '11:33 AM 30-10-2023'.

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chandrasekhar Aswin	ASChand	cjaswin@1710.com		✓	System Administrator
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatty_00d5g00000kjaeal.bnc623yuna@chatter.salesforce.com		✓	Chatter Free User
<input type="checkbox"/> Edit	Parent	pare	anslin@gmail.com		✓	Standard Platform User
<input type="checkbox"/> Edit	Principal	prin	anshchadmans@gmail.com		✓	School Profile
<input type="checkbox"/> Edit	Teacher	teac	ansettihina@gmail.com		✓	Salesforce API Only System Integrations
<input type="checkbox"/> Edit	User Integration	integ	integration@00d5g00000kjaeal.com		✓	Analytics Cloud Integration User
<input type="checkbox"/> Edit	User Security	sec	insightssecurity@00d5g00000kjaeal.com		✓	Analytics Cloud Security User

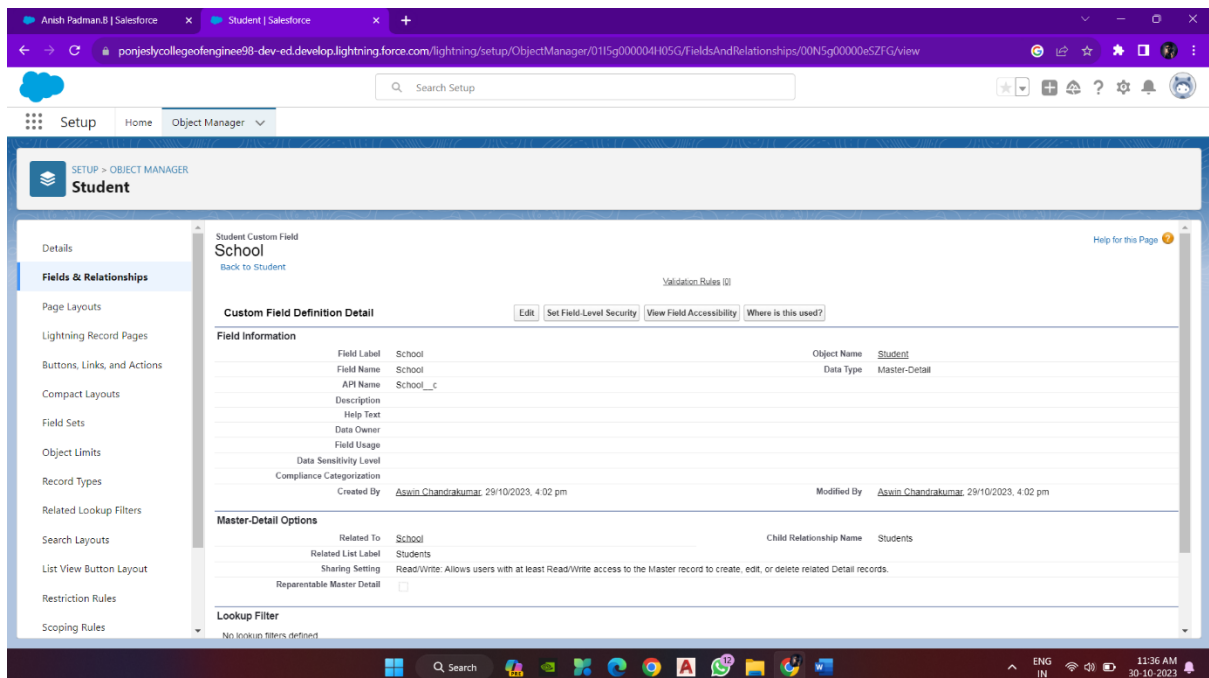
STEP 8 : Create the Permission Set for the User's



The screenshot shows the Salesforce Setup interface for the 'Permission Sets' section. The left sidebar is similar to the previous screenshot, with 'Permission Sets' highlighted. The main content area is titled 'Permission Sets' and shows a 'Principal permission' set. It includes a search bar, buttons for 'Find Settings', 'Clone', 'Edit Properties', 'Manage Assignments', and 'View Summary (Beta)'. Below this is a 'Permission Set Overview' section with fields for Description, License, Session Activation Required, and Permission Set Groups Added To. To the right, there are fields for API Name, Namespace Prefix, Created By, and Last Modified By. The bottom section is titled 'Apps' and lists various settings like 'Assigned Apps', 'Assigned Connected Apps', 'Object Settings', 'App Permissions', 'Apex Class Access', 'Visualforce Page Access', and 'External Data Source Access'. The bottom of the screen shows a Windows taskbar with various application icons and system information like 'ENG IN' and '11:34 AM 30-10-2023'.



STEP 9 : Create Master Detail relationship



STEP 10 : Create Records in Lightning App

Reports | Salesforce

ponjeslycollegeofengineer98-dev-ed.develop.lightning.force.com/lightning/r/Report/home?queryScope=mnv

Search...

School Management Schools Students Parents Reports Dashboards

Reports

Recent 2 items

Search recent reports... New Report New Folder

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Parents Report		Private Reports	Aswin Chandrakumar	29/10/2023, 4:24 pm	
Created by Me	Schools with Students Report		Private Reports	Aswin Chandrakumar	29/10/2023, 4:23 pm	

Private Reports

Public Reports

All Reports

FOLDERS

All Folders

Created by Me

Shared with Me

FAVORITES

All Favorites

Student Schools with Students Report

ponjeslycollegeofengineer98-dev-ed.develop.lightning.force.com/lightning/r/Report/0005g00000IUNYGEA5/view

Search...

School Management Schools Students Parents Reports Dashboards

Report: Schools with Students

Schools with Students Report

Enable Field Editing Add Chart Edit

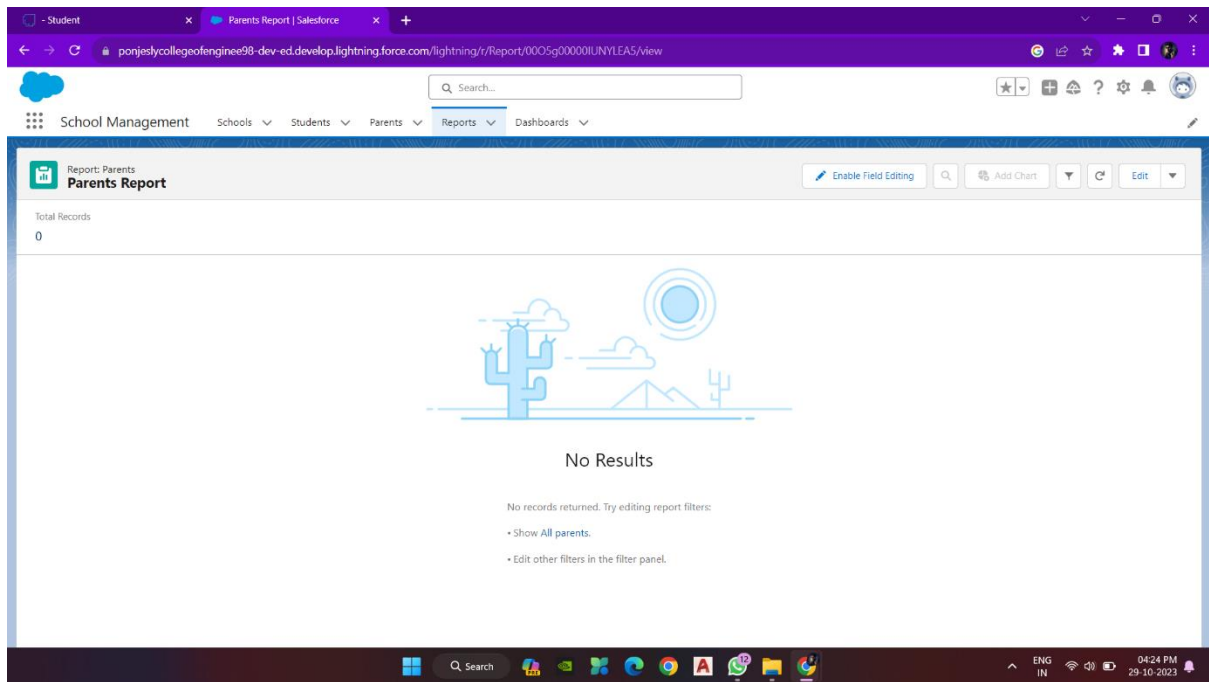
Total Records

0

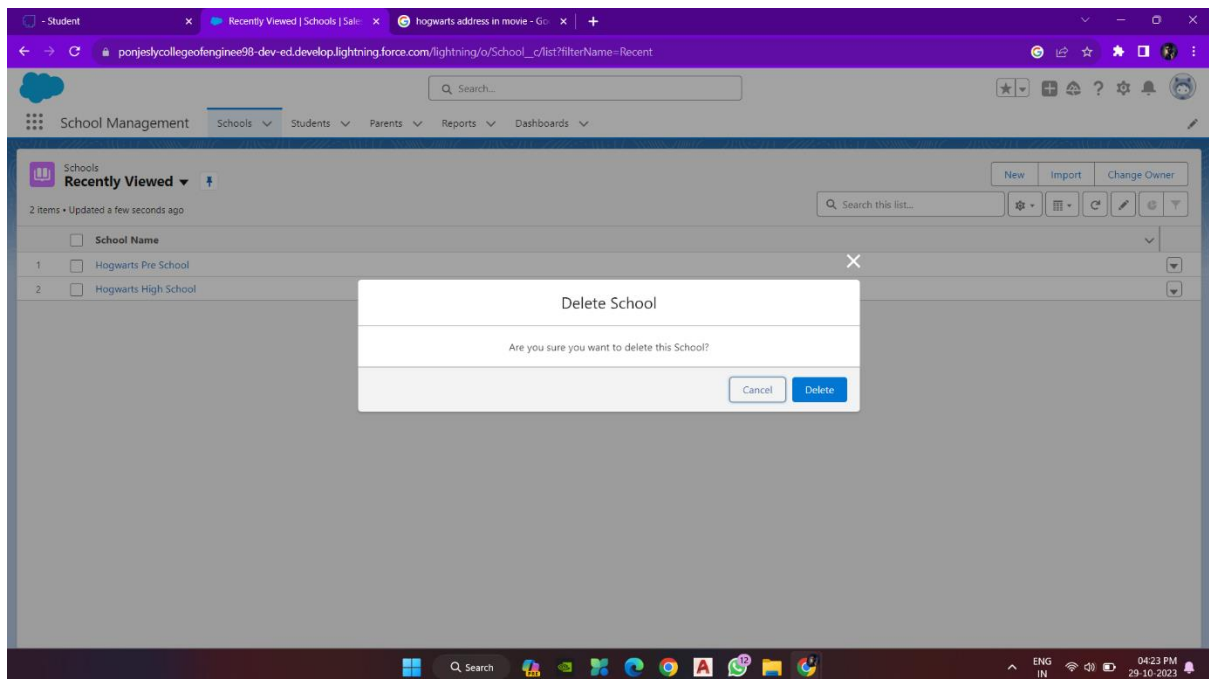
No Results

No records returned. Try editing report filters:

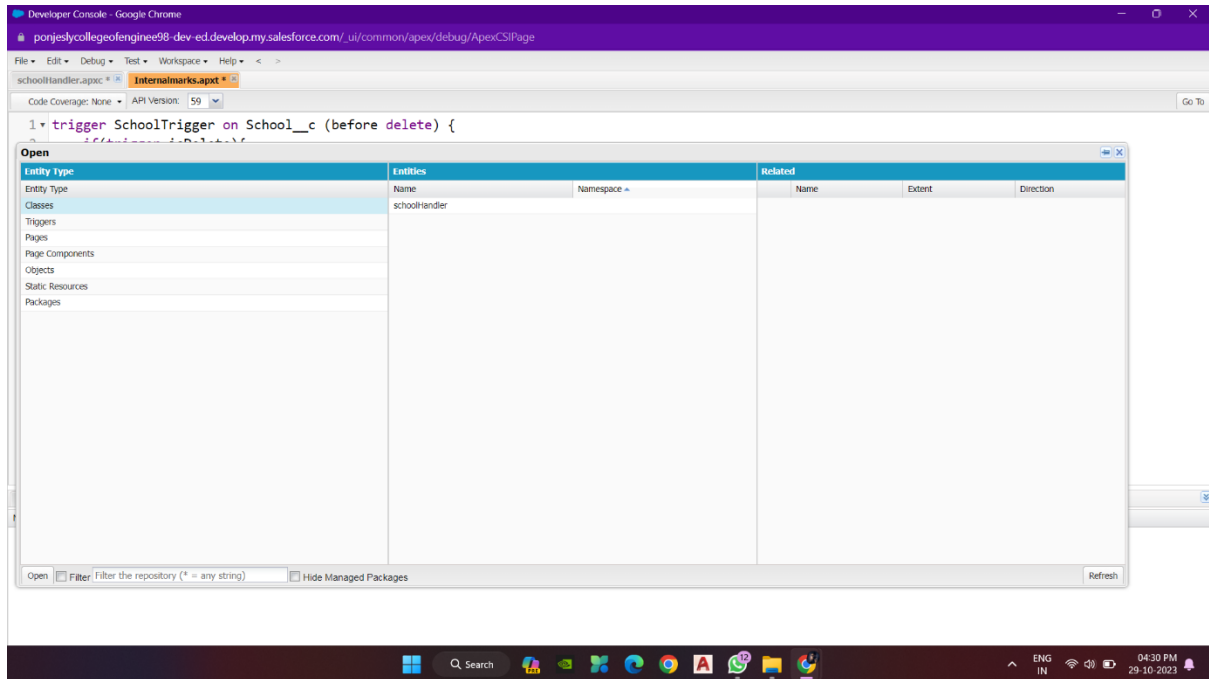
- Show All schools.
- Edit other filters in the filter panel.



STEP 11 : Deleting Records

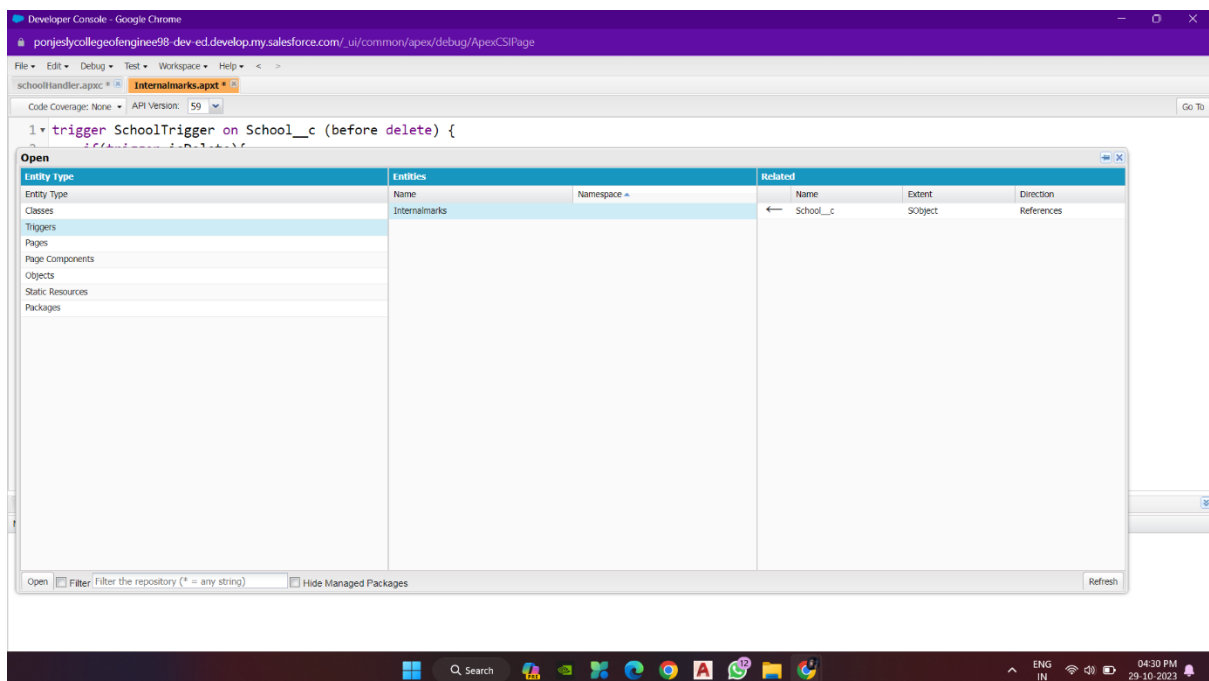


STEP 12 : Create Apex Class and Apex Trigger



The screenshot shows the Salesforce Developer Console with the Apex Trigger editor open for the trigger `SchoolTrigger` on the `School__c` object (before delete). The 'Open' window is empty, indicating no related entities are currently listed.

Entity Type	Entities	Related
Entity Type	Name	Name
Classes	Namespace	Extent
Triggers		Direction
Pages		
Page Components		
Objects		
Static Resources		
Packages		



The screenshot shows the Salesforce Developer Console with the Apex Trigger editor open for the trigger `SchoolTrigger` on the `School__c` object (before delete). The 'Open' window now displays a related entity: `School__c` (SOBJECT) with a direction of `References`.

Entity Type	Entities	Related
Entity Type	Name	Name
Classes	Namespace	Extent
Triggers		Direction
Pages		
Page Components		
Objects		
Static Resources		
Packages		

STEP 13 : Create a Flow

