

NAAN MUDHALVAN
SALESFORCE DEVELOPER PROJECT REPORT

PROJECT TITLE: CREATION OF AN APPLICATION FOR SCHOOL
MANAGEMENT

COLLEGE: PONJESLY COLLEGE OF ENGINEERING.

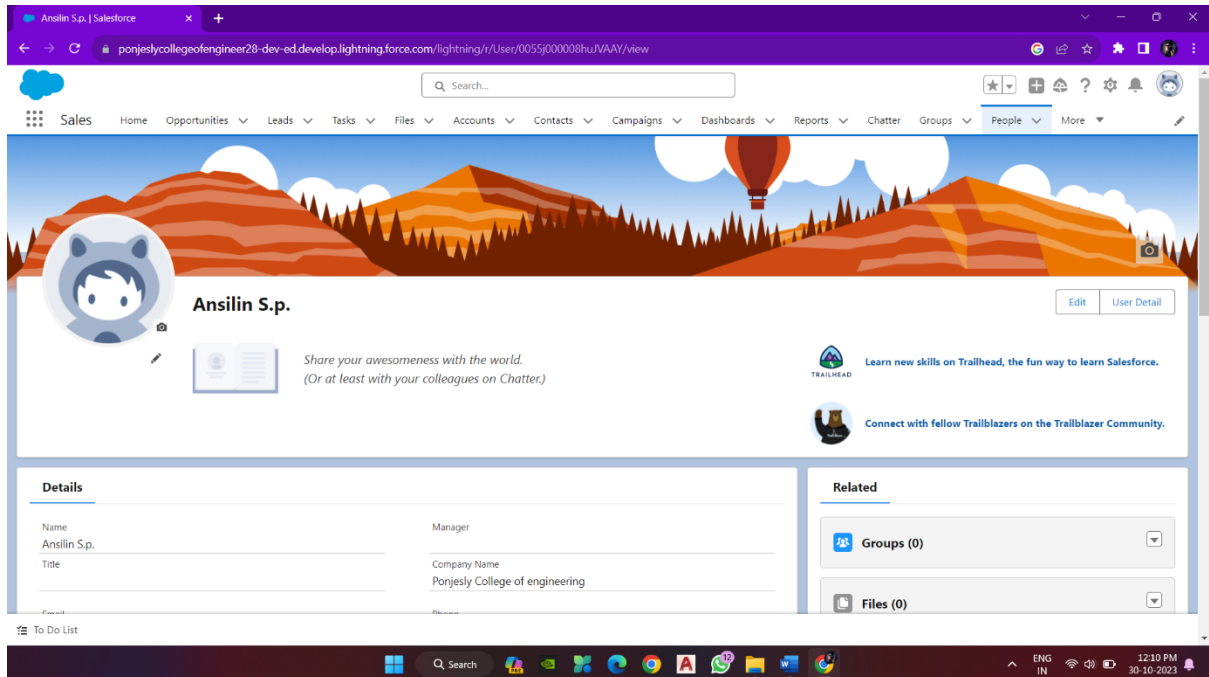
DONE BY:

ANSILIN.S. P

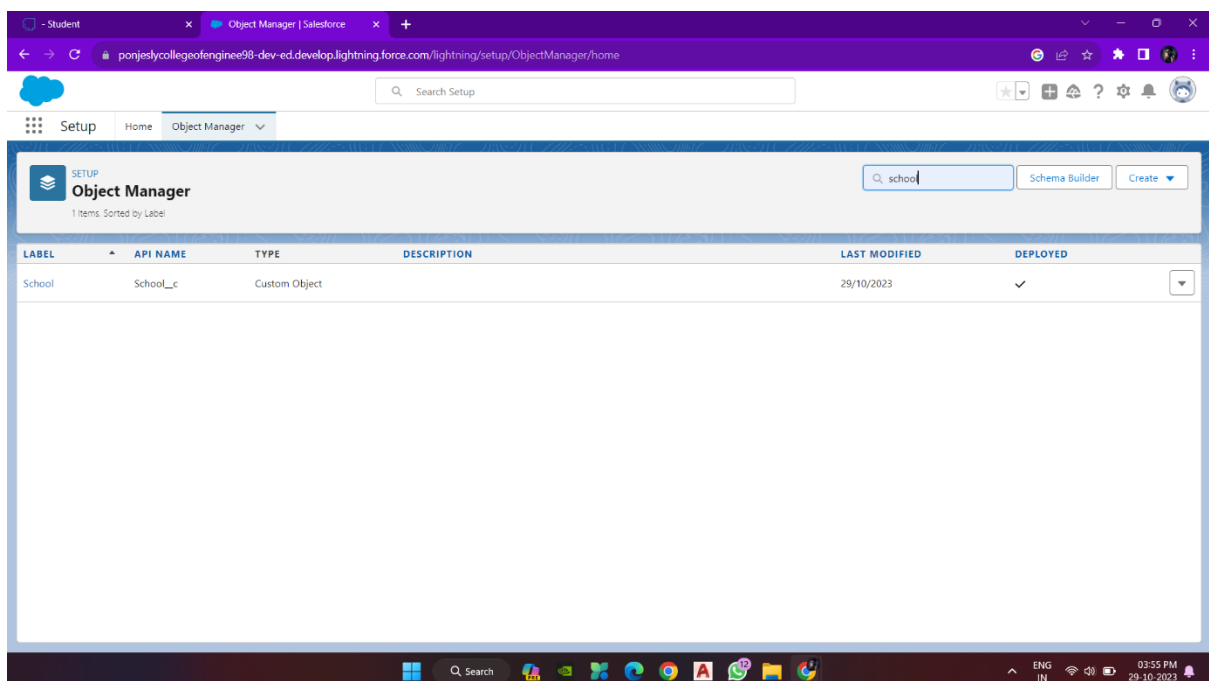
REG NO: 961820114023

NM ID: 6631FA5272770E3B15945AAA24C3EDB7

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	✓

ENG IN 03:55 PM 29-10-2023

Student | Object Manager | Salesforce

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Search Setup

Setup Home Object Manager

Object Manager

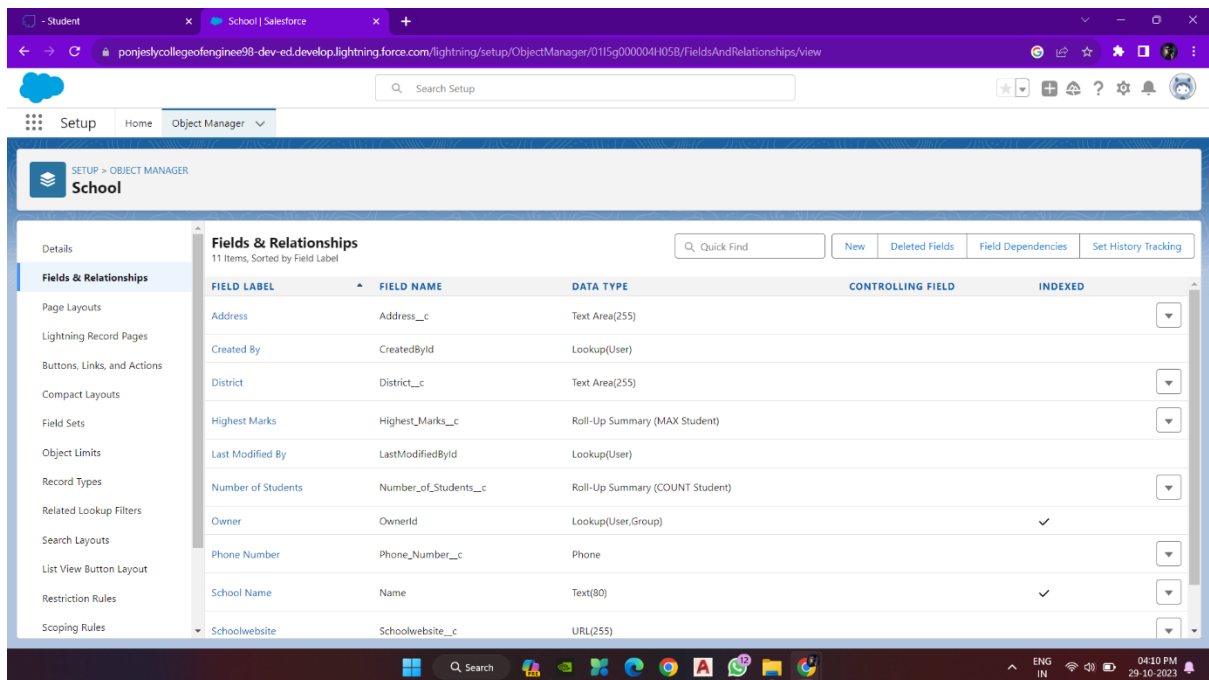
1 Items, Sorted by Label

Student

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

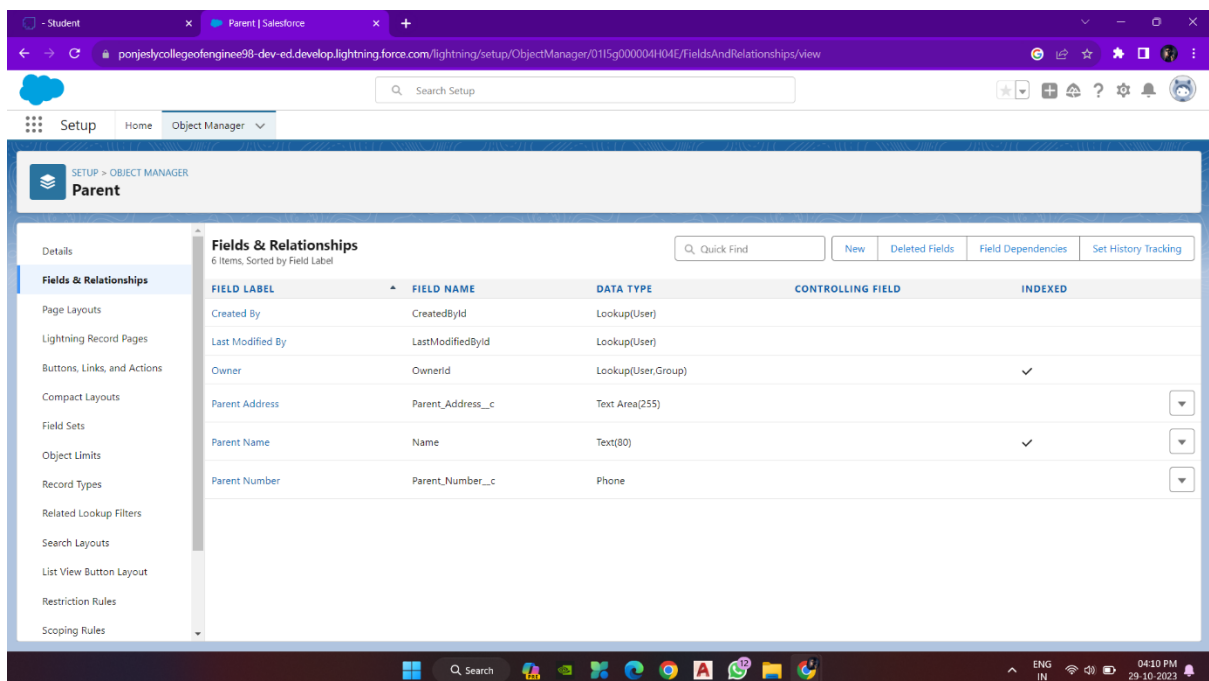
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STEP 3 : Create Fields for respective objects (Schools, Student, Parents)



The screenshot shows the Salesforce Setup interface for the 'School' object. The 'Fields & Relationships' section is active, displaying a table of 11 fields. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Address, Created By, District, Highest Marks, Last Modified By, Number of Students, Owner, Phone Number, School Name, and Schoolwebsite. The 'Owner' field is indexed, and 'School Name' is also indexed. The 'Number of Students' field is a Roll-Up Summary (COUNT Student). The 'Highest Marks' field is a Roll-Up Summary (MAX Student). The 'Address' and 'District' fields are Text Area (255). The 'Created By' and 'Last Modified By' fields are Lookup (User). The 'Phone Number' field is Phone. The 'Schoolwebsite' field is URL (255).

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 table of 6 fields. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Created By, Last Modified By, Owner, Parent Address, Parent Name, and Parent Number. The 'Owner' field is indexed. The 'Parent Address' field is Text Area (255). The 'Parent Name' field is Text (80). The 'Parent Number' field is Phone. The 'Created By' and 'Last Modified By' fields are Lookup (User).

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 list of 9 fields. The fields are sorted by Field Label. The table below lists the fields:

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)		✓

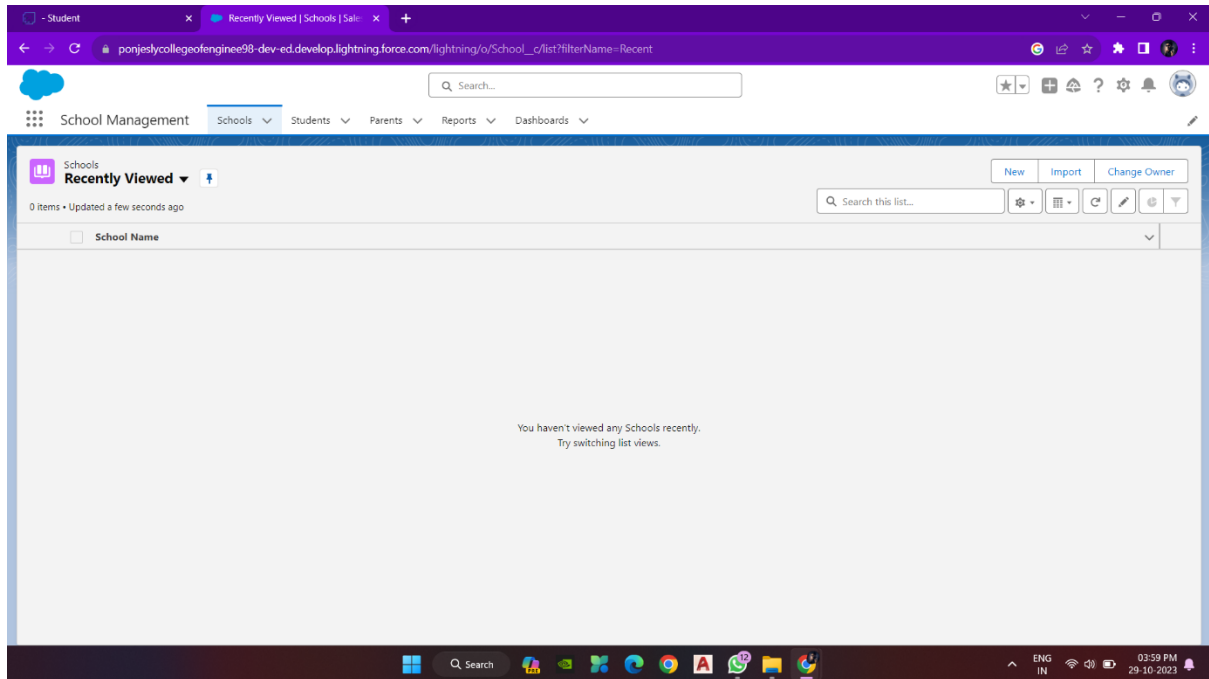
STEP 4 : Create the Tabs for each object (School, Student, Parent)

The screenshot shows the Salesforce Setup interface for the 'Custom Tabs' section. The left sidebar contains a navigation menu with options like tabs, User Interface, Rename Tabs and Labels, and Tabs. The main content area is titled 'Custom Tabs' and shows a list of custom tabs. The tabs are sorted by Tab Style. The table below lists the tabs:

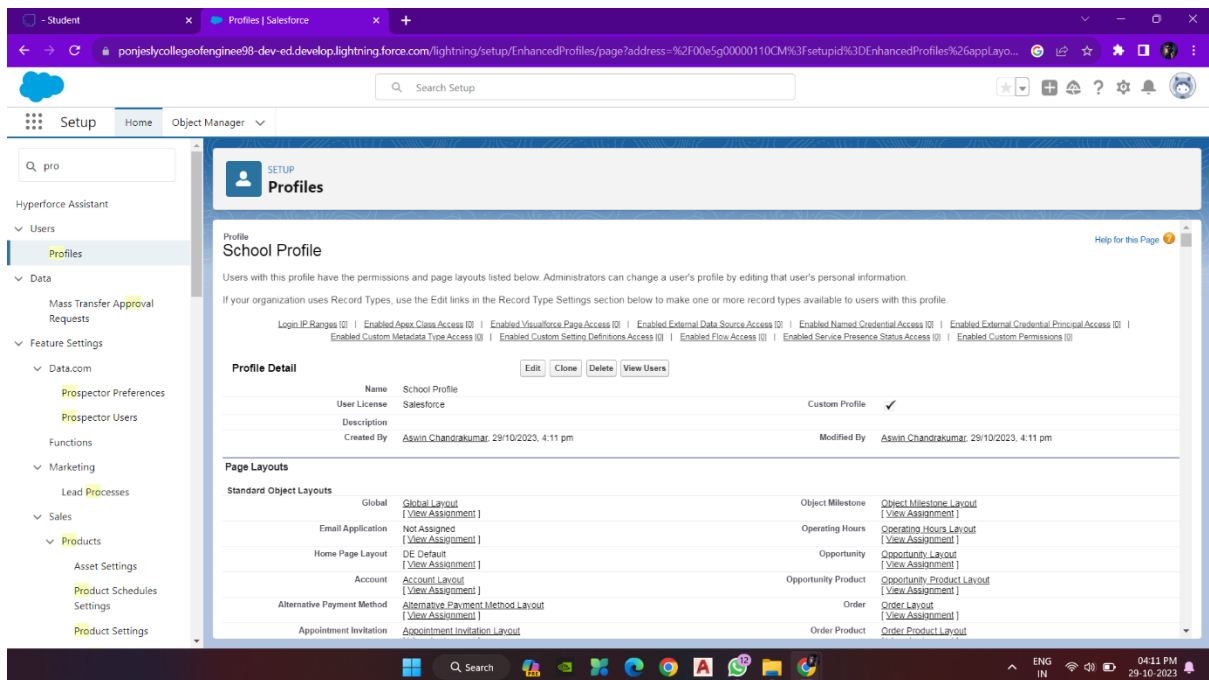
Action	Label	Tab Style	Description
Edit Del	Parents	Bank	
Edit Del	Schools	Books	
Edit Del	Students	Laptop	

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

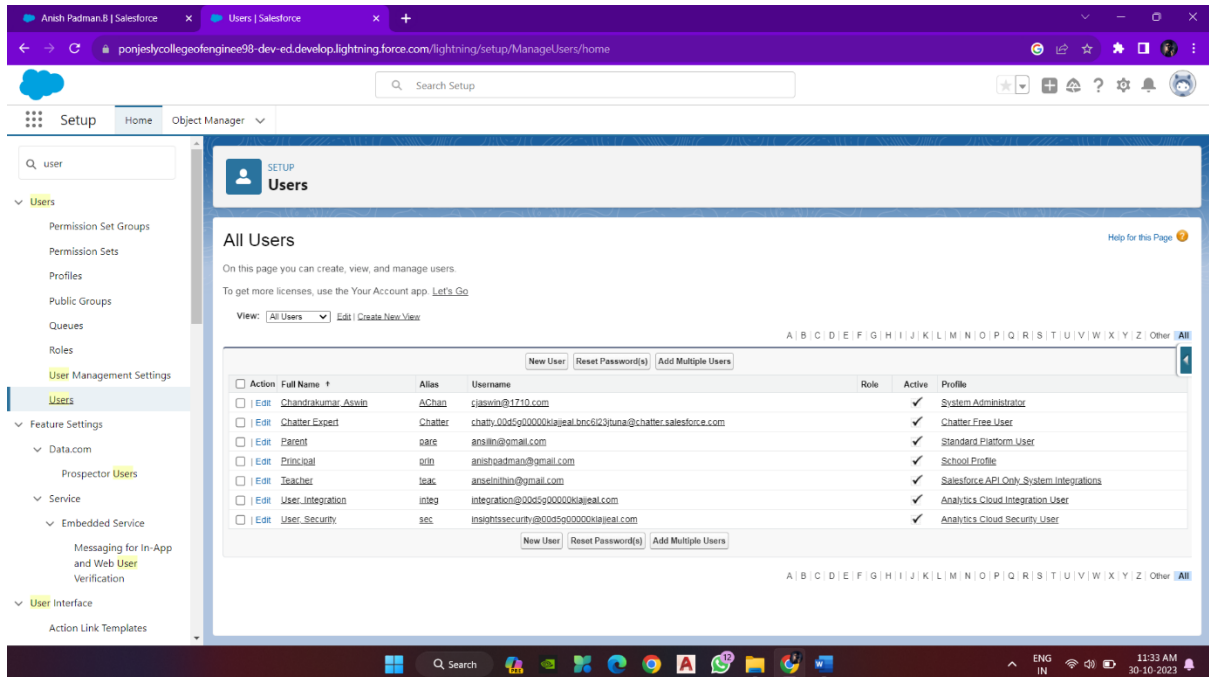
STEP 5 : Create a Lightning App



STEP 6 : Create the School Profile



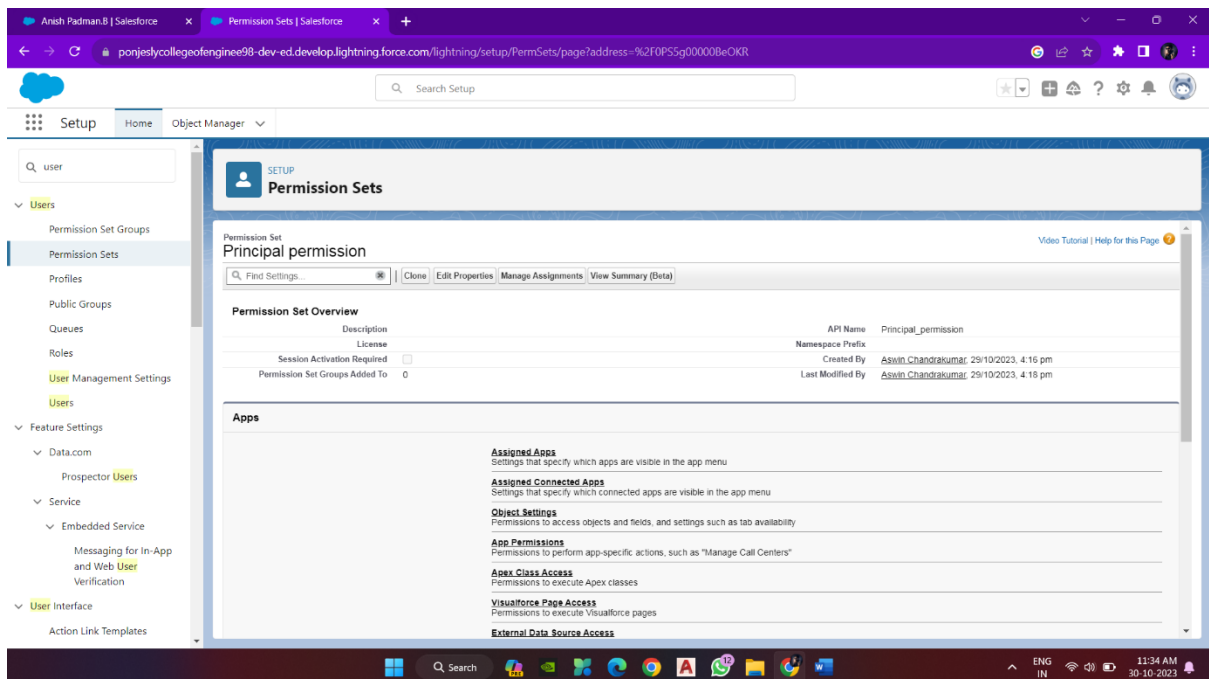
STEP 7 : Create the Users (Teacher, Parent, Principal)



The screenshot shows the Salesforce Setup interface for managing users. The left sidebar contains a navigation menu with options like Users, Permission Set Groups, Profiles, Public Groups, Queues, Roles, and User Management Settings. The main content area is titled "All Users" and includes a table of existing users. The table has columns for Action, Full Name, Alias, Username, Role, Active status, and Profile. The users listed are Chandrakumar Aswin, Chatter Expert, Parent, Principal, Teacher, User Integration, and User Security. Each user has an "Edit" link and a checkbox for selection. The bottom of the screen shows a Windows taskbar with various application icons and system status indicators.

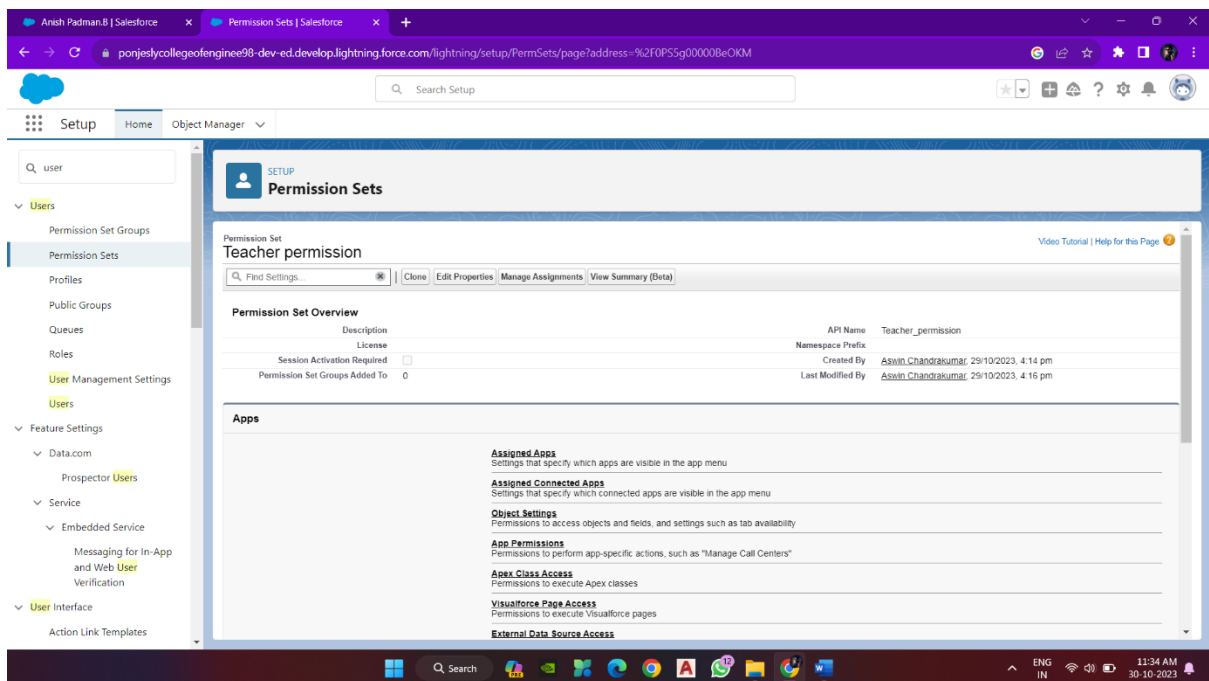
Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chandrakumar Aswin	ASChand	cjaswin@1710.com		✓	System Administrator
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatty_00d5g00000kjaeal.bnc623yuna@chatter.salesforce.com		✓	Chatter Free User
<input type="checkbox"/> Edit	Parent	pare	anslin@gmail.com		✓	Standard Platform User
<input type="checkbox"/> Edit	Principal	prin	anshoadmans@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

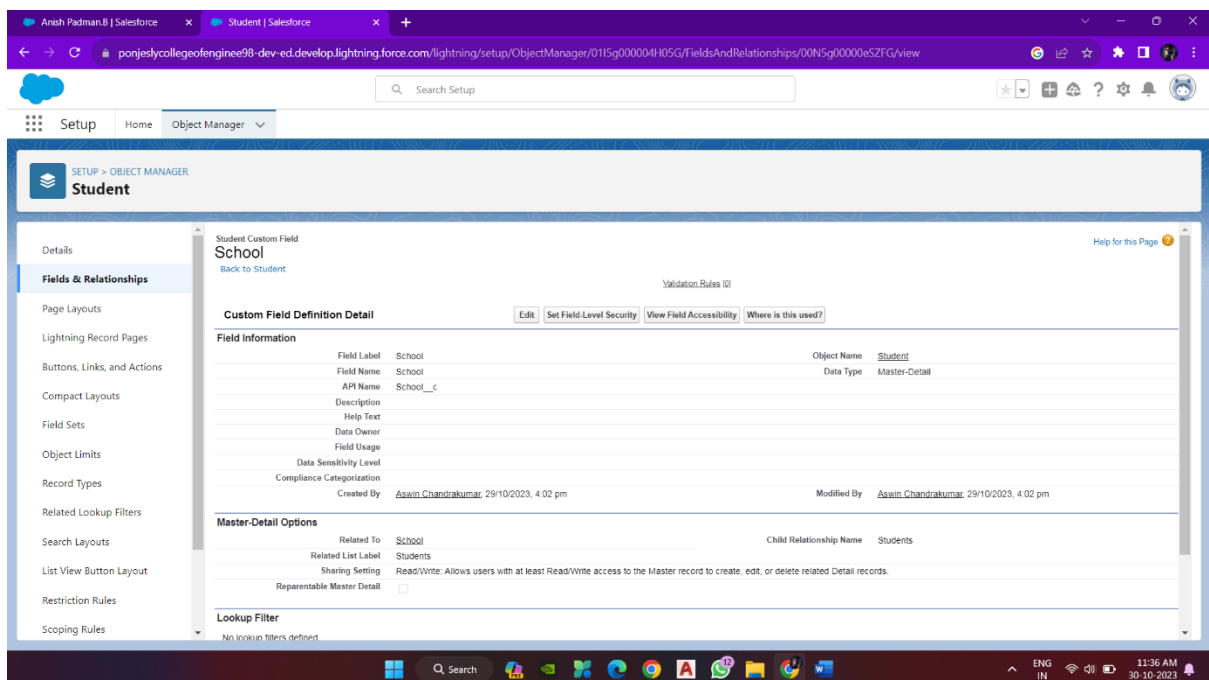


The screenshot shows the Salesforce Setup interface for creating a new permission set. The left sidebar is the same as in the previous screenshot. The main content area is titled "Permission Sets" and shows the "Principal permission" set. The "Permission Set Overview" section displays details about the permission set, including its description, license, session activation required status, and the user who created and last modified it. The "Apps" section lists various app permissions, including Assigned Apps, Assigned Connected Apps, Object Settings, App Permissions, Apex Class Access, Visualforce Page Access, and External Data Source Access.

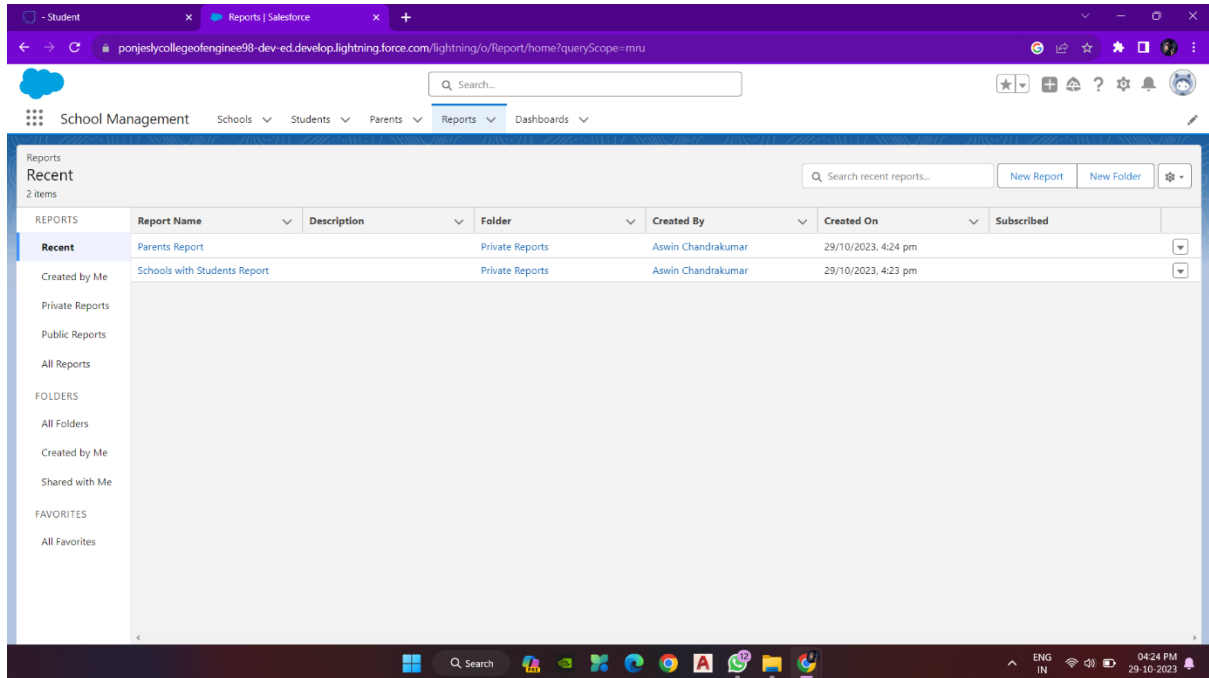
API Name	Principal_permission
Namespace Prefix	
Created By	Aswin Chandrakumar: 29/10/2023, 4:16 pm
Last Modified By	Aswin Chandrakumar: 29/10/2023, 4:18 pm



STEP 9 : Create Master Detail relationship

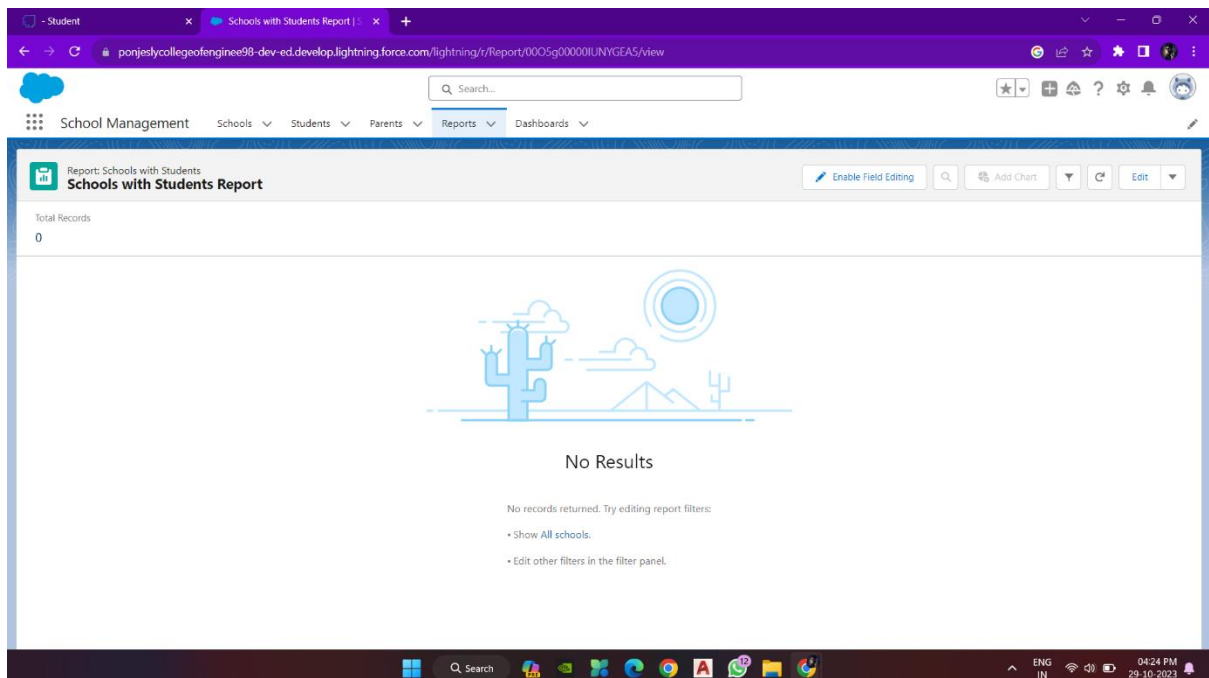


STEP 10 : Create Records in Lightning App



The screenshot shows the Salesforce Reports page in the Lightning App. The page has a navigation bar with 'School Management', 'Schools', 'Students', 'Parents', 'Reports', and 'Dashboards'. The 'Reports' tab is selected. The main content area shows a list of recent reports. The 'Recent' section lists two reports: 'Parents Report' and 'Schools with Students Report', both created by Aswin Chandrakumar on 29/10/2023. The 'Schools with Students Report' is highlighted in the left sidebar.

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	



The screenshot shows the 'Schools with Students Report' page in the Lightning App. The page has a navigation bar with 'School Management', 'Schools', 'Students', 'Parents', 'Reports', and 'Dashboards'. The 'Reports' tab is selected. The main content area shows a 'No Results' message with a cactus illustration. The message states: 'No records returned. Try editing report filters: • Show All schools. • Edit other filters in the filter panel.' The 'Total Records' is 0.

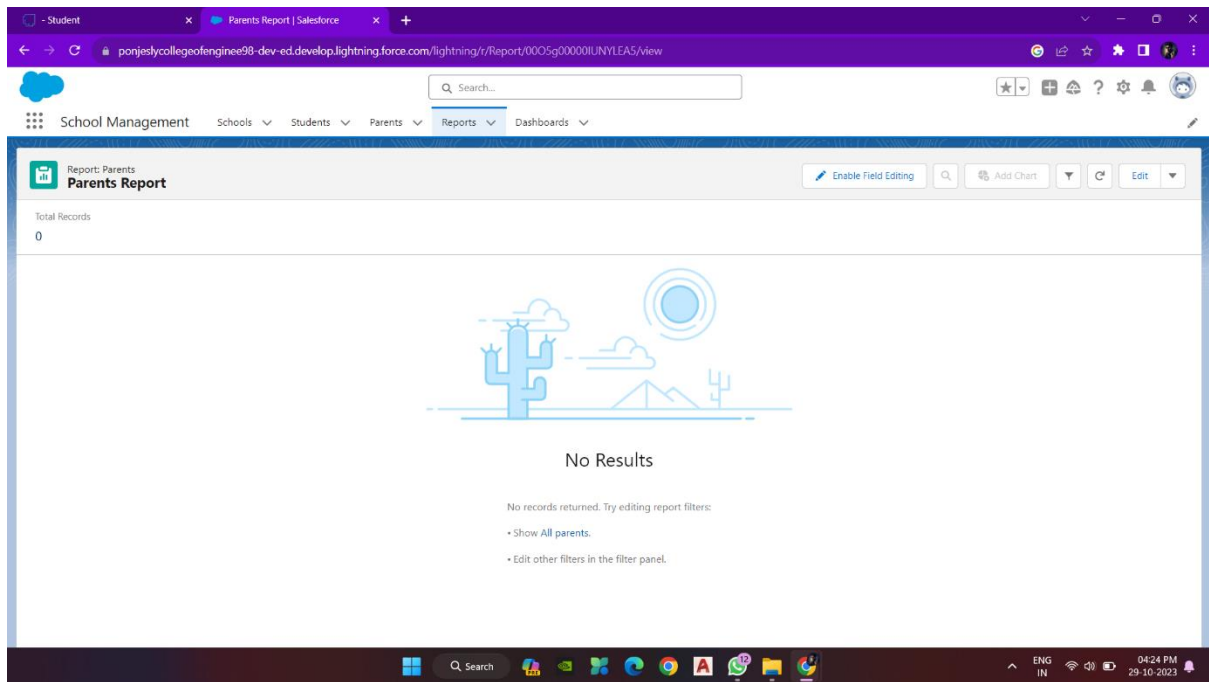
Report: Schools with Students
Schools with Students Report

Total Records
0

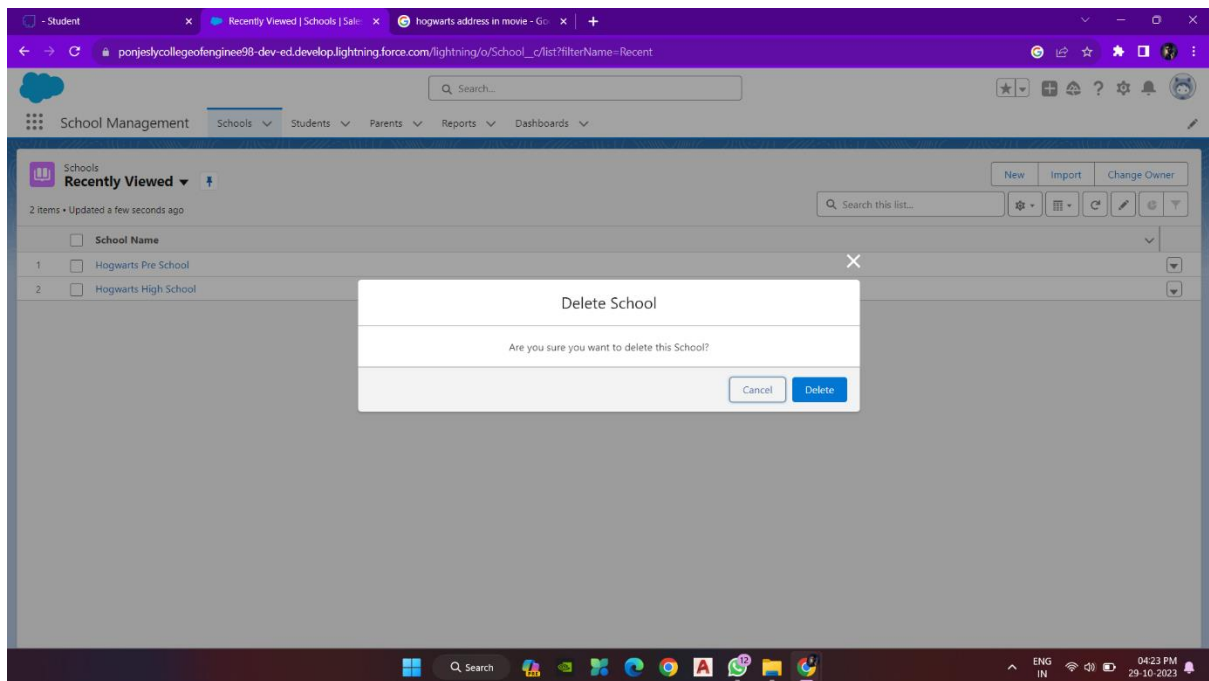
No Results

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. The trigger is named 'SchoolTrigger' and is set to fire on 'School__c' (before delete). The 'Open' dialog is open, showing the 'Entities' tab. The 'Entities' table has columns: Name, Namespace, and Related. The 'Related' table has columns: Name, Extent, and Direction. The 'Entities' table shows 'schoolhandler' as the selected entity.

Entity Type	Name	Namespace	Related
Entity Type	Name	Namespace	Name Extent Direction
Classes	schoolhandler		

The screenshot shows the Salesforce Developer Console with the Apex Trigger editor open. The trigger is named 'SchoolTrigger' and is set to fire on 'School__c' (before delete). The 'Open' dialog is open, showing the 'Entities' tab. The 'Entities' table has columns: Name, Namespace, and Related. The 'Related' table has columns: Name, Extent, and Direction. The 'Entities' table shows 'Internalmarks' as the selected entity.

Entity Type	Name	Namespace	Related
Entity Type	Name	Namespace	Name Extent Direction
Classes	Internalmarks		← School__c SObject References

STEP 13 : Create a Flow

