

Creation Of An Application For School Management – Admin:

The project aim is to provide real-time knowledge for all the students who have basic knowledge of Salesforce and Looking for a real-time project. This project will also help those professionals who are in cross-technology and want to switch to Salesforce. With the help of this project they will gain knowledge and can include it into their resume as well.

Introduction:

Are you new to Salesforce? Not sure exactly what it is, or how to use it? Don't know where you should start on your learning journey? If you've answered yes to any of these questions, then you're in the right place. This module is for you.

Welcome to Salesforce! Salesforce is game-changing technology, with a host of productivity-boosting features, that will help you sell smarter and faster. As you work toward your badge for this module, we'll take you through these features and answer the question, "What is Salesforce, anyway?"

What Is Salesforce?

Salesforce is your customer success platform, designed to help you sell, service, market, analyze, and connect with your customers.

Salesforce has everything you need to run your business from anywhere. Using standard products and features, you can manage relationships with prospects and customers, collaborate and engage with employees and partners, and store your data securely in the cloud.

So what does that really mean? Well, before Salesforce, your contacts, emails, follow-up tasks, and prospective deals might have been organized something like this:

Creating Developer Org

Creating a developer org in salesforce.

Goto developer.salesforce.com

1. Click on sign up.
2. On the sign up form, enter the following details

a. First name & Last name
 b. Email
 c. Role - Developer
 d. Company - College Name
 e. Country - India
 f. Postal Code - pin co
 Username should be a combination of your name and company
 This need not be an actual email id, you can give anything in the format :
 username@organization.com

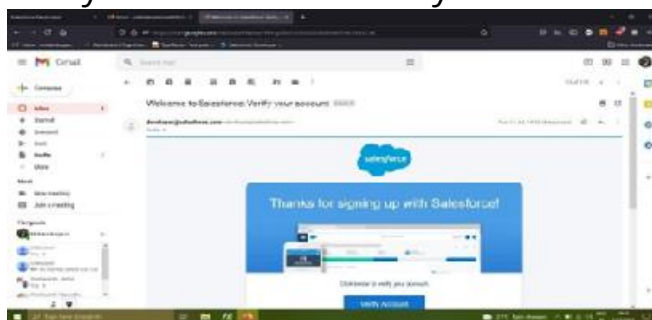
Click on sign up after filling these.



Account

Activation

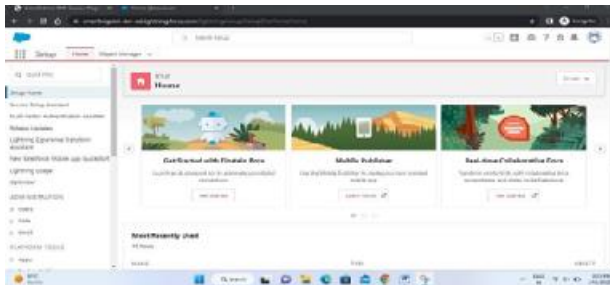
Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins, as



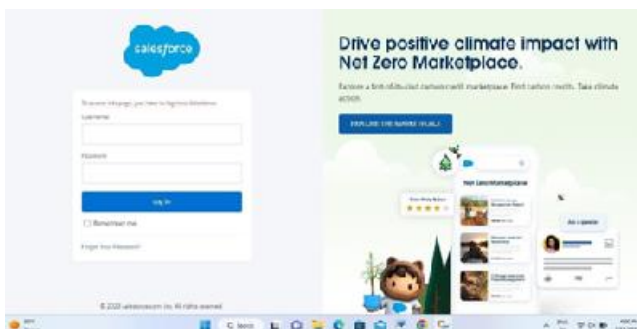
Login To Your Salesforce Account:

Go to salesforce.com and click on login.

1. Enter the username and password that you just created.
2. After login this is the home page which you will see.



Salesforce Login



Object:

Salesforce objects are database tables that permit you to store data that is specific to an organization. Salesforce objects are of two types: Standard Objects: Standard objects are the kind of objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.

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Standard Objects: Standard objects are the kind objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.

Custom Objects: Custom objects are those objects that are created by users. They supply information that is unique and essential to their organization. They are the heart of any application and provide a structure for sharing data.

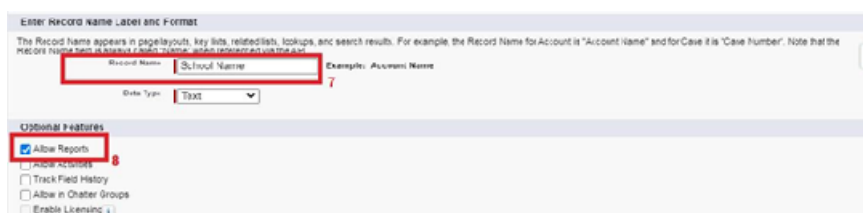
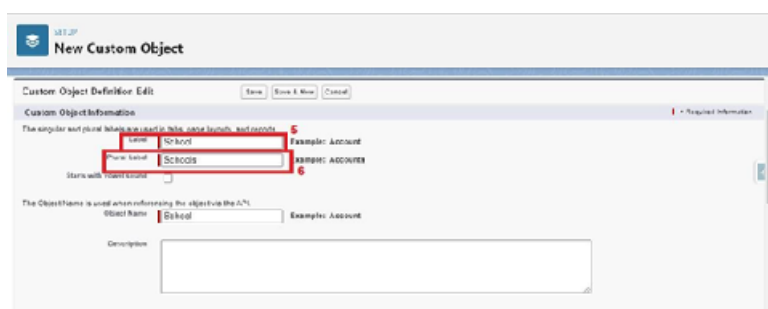
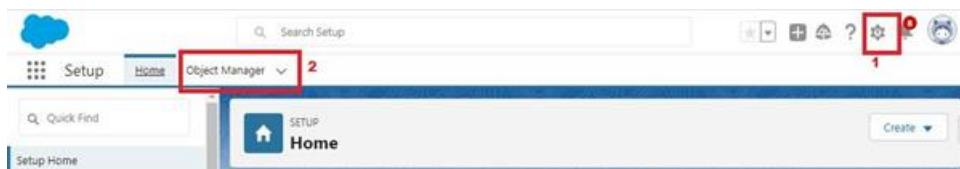
Creation Of School Object Creation Of Objects For School Management:

For this school management we need to create 3 objects School, Parents and Student. The below steps will assist you in creating those objects.

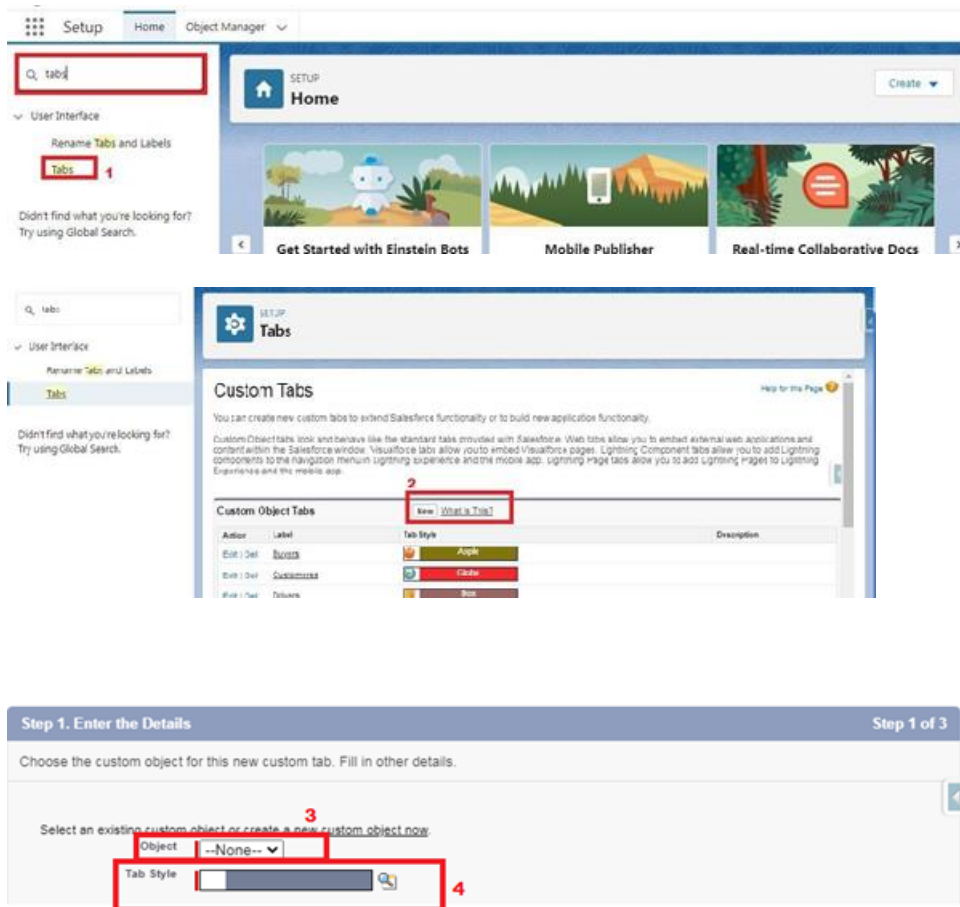
Click on the gear icon and then select Setup.

Click on the object manager tab just beside the After the above steps, have a look on the extreme right you will find a Create Dropdown click on that and select Custom Object.

1. On the Custom Object Definition page, create the object as follows:
2. Label: School
3. Plural Label: Schools
4. Record Name: School Name
5. Check the Allow Reports checkbox
6. Check the Allow Search checkbox
7. Click Save.



Now create a custom tab. Click the Home tab.



Create Student Object:

1. Click on the gear icon and then select Setup.
 2. Click on the object manager tab just beside the home tab
 3. After the above steps, have a look on the extreme right you will find a Create Dropdown click on that and select Custom Object.
- On the Custom Object Definition page, create the object as follows:
 - Label: Student
 - Plural Label: Students
 - Record Name: Student Name
 - Check the Allow Reports checkbox
 - Check the Allow Search checkbox
 - Click Save.

Now create a custom tab. Click the Home tab, enter Tabs in Quick Find and select Tabs. Under Custom Object Tabs, click New.

1. For Object, select Students.
2. For Tab Style, select any icon.
3. Leave all defaults as is. Click Next, Next, and Save.

Create Parent Obje

Click on the object manager tab just beside the home tab.

- After the above steps, have a look on the extreme right you will find a Create Dropdown click on that and select Custom Object.
 - On the Custom Object Definition page, create the object as follows:
 - Label: Parent
 - Plural Label: Parents
 - Record Name: Parent Name
 - Check the Allow Reports checkbox
 - Check the Allow Search checkbox
 - Click Save.

Now create a custom tab. Click the Home tab, enter Tabs in Quick Find and select Tabs. Under Custom Object Tabs, click New.

1. For Object, select Parents.
2. For Tab Style, select any icon.
3. Leave all defaults as is. Click Next, Next, and Save.

Lightning App:

Apps in Salesforce are a group of tabs that help the application function by working together as a unit. It has a name, a logo, and a particular set of tabs. The simplest app usually has just two tabs.

Standard There are two types of app -

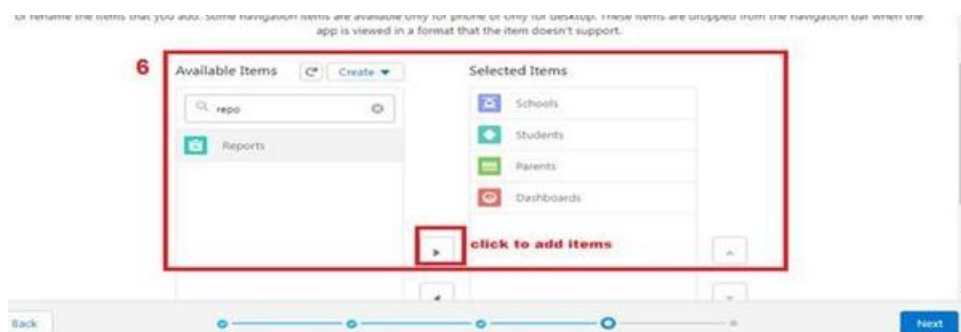
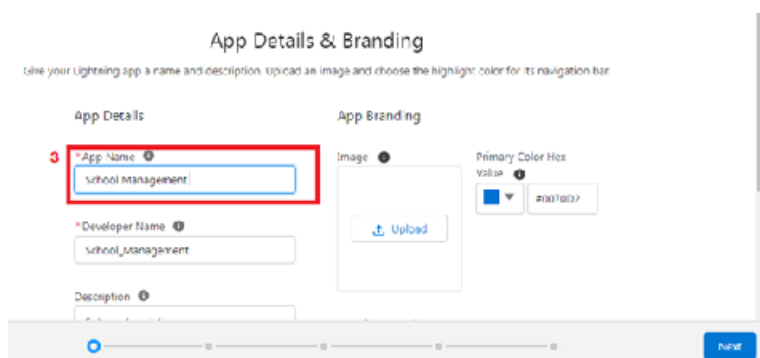
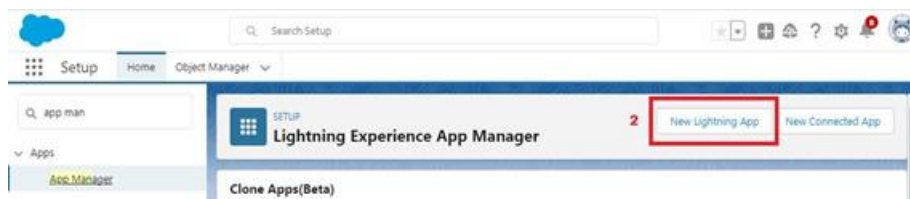
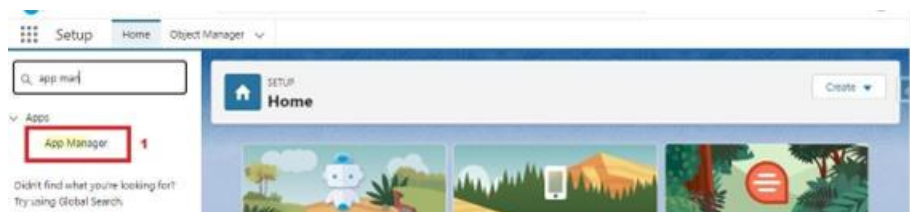
App: Standard apps come with every occurrence of Salesforce as default. Many features like Sales, Marketing, Community, call center, content, Salesforce Chatter, App Launcher, etc are present in it.

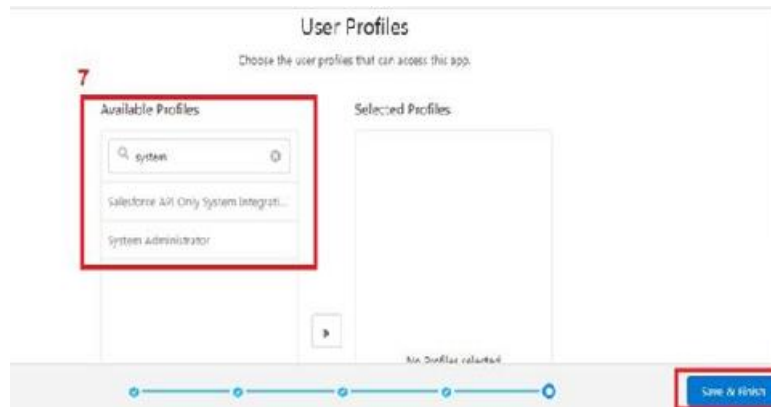
1. Note: The description, Logo, and Label of standard app cannot be altered.

2. Custom Apps: Custom apps are created according to need of user.

Note: Logos for Custom Apps can be changed **Management App**

1. From Setup, enter App Manager in the Quick Find and select App Manager.
2. Click New Lightning App.
3. Enter School Management as the App Name, then click Next
4. Under App Options, leave the default selections and click Next.
5. Under Utility Items, leave as is and click Next.
6. From Available Items, select Schools, Students, Parents, Reports, and Dashboards and move them to Selected Items. Click Next.
7. From Available Profiles, select System Administrator and move it to Selected Profiles. Click Save & Finish.





2. To verify your changes, click the App Launcher, type School Management and select the School Management app.

Note:

App Launcher-Displays available apps.

App Name-Displays the current selected app.

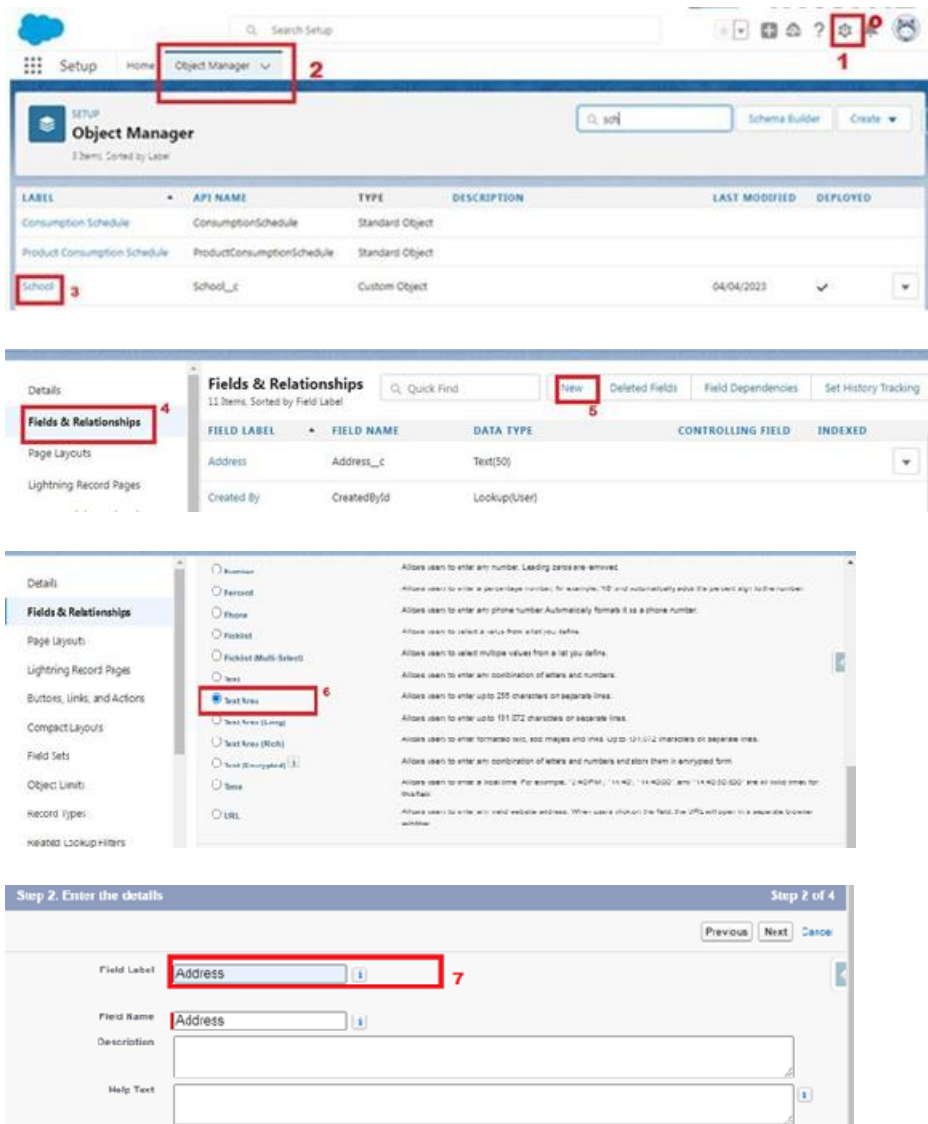
Navigation menu -Displays the tabs available inside the app.

Fields And Relationship:

An object relationship in Salesforce is a two-way association between two objects. Relationships are created by creating custom relationship fields on an object. This is done so that when users view records, they can also see and access related data.

Creation Of Fields For The School Objects:

1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select School.
4. Select Fields & Relationships from the left navigation
5. Click New
6. Select the Text Area as the Data Type, click Next.
7. For Field Label, enter Address.
8. Click Next, Next, then Save & New.
9. Follow steps 1 to 3 and create two more Text type field - District & State.
10. Create URL type field & give School website as the field label.



Now let's create the other fields and we must choose the data types of the fields carefully. Let's have a look at it.

For example, a phone number is a number field. For that we need to select the phone as data type.

Let's see this

Note- Follow above steps 1 to 5 to create field and then follow below steps

1. Select the Phone as the Data Type, then click Next.
2. For Field Label, enter Phone Number.
3. Click Next, Next, then Save & New.

Creation Of Fields For The Student Objects:

Note- Follow above steps 1 to 5 to create field and then follow below steps

Select the Phone as the Data Type, then click Next.

1. For Field Label, enter Phone Number.
2. Click Next, Next, then Save & New

Let's create a master-detail relationship with School object

Note- Follow above steps 1 to 5 to create field and then follow below steps

1. Select Master-Detail Relationship as the Data Type and click Next.
2. For Related to, enter School.
3. Click Next.
4. For Field Label, enter School.
5. Click Next, Next, Next and Save.

Let's create a Pick-List field:

Note- Follow above steps 1 to 5 to create field and then follow below steps

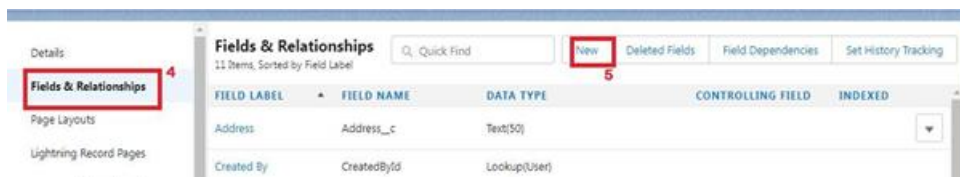
1. From Setup, click Object Manager and select Student.
2. Click Fields & Relationships, then New.
3. Select Picklist as the Data Type and click Next.
4. For Field Label enter Results.
5. Select Enter values, with each value separated by a new line and enter these values:
6. Pass
7. Fail
8. Click Next, Next, then Save & New

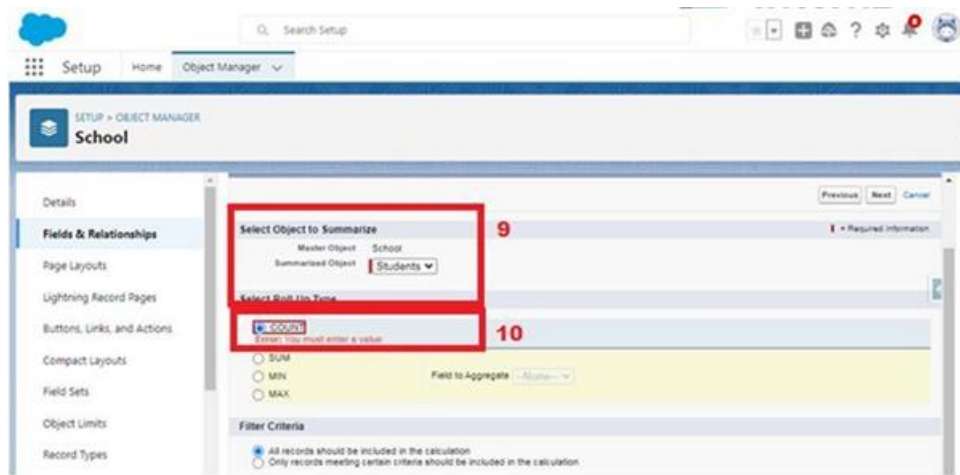
Let's create a Number field:

Note- Follow above steps 1 to 5 to create field and then follow below steps

1. Select the Number as the Data Type, then click Next.
2. For Field Label, enter Class.
3. Click Next, Next, then Save & New
4. Follow steps 1 through 3 and create one more number field with Marks as the field labels.

1. Click gear icon Select Setup, This launches Setup in a new tab.
2. click Object Manager
3. Select School.
4. Click Fields & Relationships
5. Click New.
6. Select the Roll-up summary field as data type
7. Enter the field label as Number of students
8. Click Next
9. Then select the master object summarized as students
10. Select count as roll-up and then click Next, Next and save.





Create one more rollup summary field:

From Setup, click Object Manager and select School.

- Click Fields & Relationships, then New.
- Select the Roll-up summary field as data type
- Enter the field label as Highest Marks
- Click Next
- Then select the master object summarized as students and then select Max as roll-up and then select Marks as field to aggregate.
- click Next, Next and save.

Creation Of Fields For The Parent Objects:

- Select the Text Area as the Data Type, then click Next.
- For Field Label, enter Parent Address.
- Click Next, Next, then Save & New.
- Select the Phone as the Data Type, then click Next.
- For Field Label, enter Parent Number.
- Click Next, Next, then Save & New

Profile:

A profile is a group/collection of settings and permissions that define what a user can do in salesforce. A profile controls "Object permissions, Field permissions,

Creation On Profile:

-
- The screenshot shows the SAP Setup 'Profiles' page. In the left-hand navigation pane, the 'Setup' menu is expanded, and 'Profiles' is selected under the 'Users' category. The main content area is titled 'Profiles' and includes a search bar with the text 'All Profiles'. Below the search bar, the 'New Profile' button is highlighted with a red rectangle. The table below lists various profiles with columns for 'Action', 'Profile Name', 'User License', and 'Custom'. The profiles listed are: 'Analytics Cloud Integration User', 'Analytics Cloud Security User', 'Authenticated Website', 'Authenticated Website', 'Chatter External User', 'Chatter Free User', 'Chatter Moderator User', and 'Contact Manager'. Each row has an 'Edit | Clone' link in the 'Action' column and a checkbox in the 'Custom' column.

Enter the name of the new profile.

You must select an existing profile to clone from. ! = Required Information

Existing Profile: Standard User ▼

User License: Salesforce

Profile Name: School profile 4

5

Save Cancel

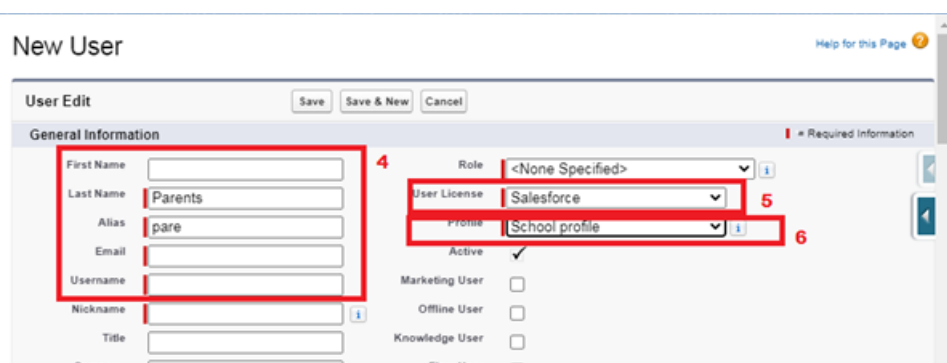
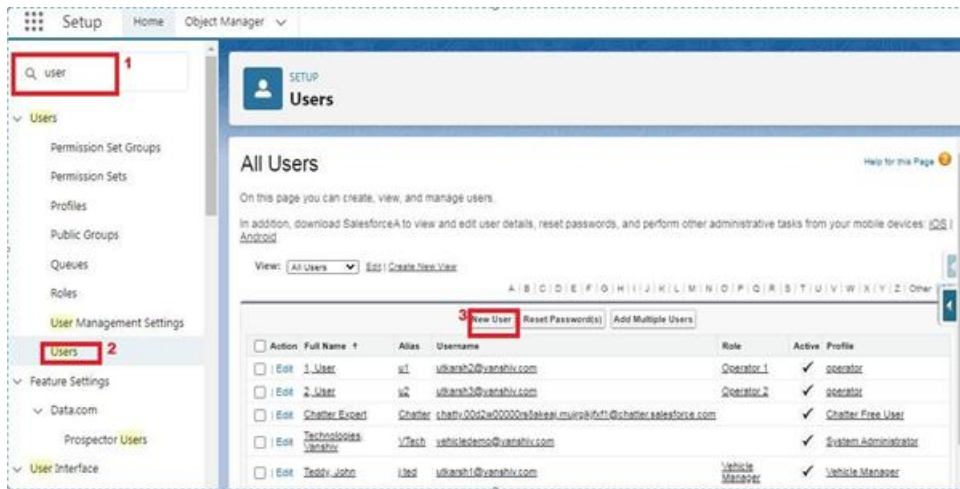
Custom Object Permissions 7											
	Basic Access				Data Administration			Basic Access			
	Read	Create	Edit	Delete	View All	Modify All		Read	Create	Edit	Delete
Customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drivers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parents	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schools	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vehicles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Users:

A user is anyone who logs in to Salesforce. Users are employees at your company, such as sales reps, managers, and IT specialists, who need access to the company's records. Every user in Salesforce has a user account.

Creating A User:

1. From Setup, in the Quick Find box, enter Users.
2. Select Users.
3. Click New User.
4. Enter the user's name Parents and (Your) email address and a unique username in the form of an email address. By default, the username is the same as the email address.
5. Select a User License as salesforce.
6. NOTE- As Salesforce license can only be used by 2 Users at a time in Dev Org, so If you don't find salesforce license then deactivate a user who has salesforce license or change the license type from Salesforce to any other.
7. Select a profile as a School profile.
8. Check Generate new password and notify the user immediately to have the user's login name and a temporary password emailed to your email.
9. Similarly follow the above steps and create 2 users as Teachers and principals.



Permission Sets:

A permission set is a collection of settings and permissions that give users access to various tools and functions. Permission sets extend users' functional access without changing their profiles.

Permission Sets 1:

1. From Setup, enter Permission Sets in the Quick Find box, then select Permission Sets.
2. Click New.
3. Give the name of the Permission set name as teacher permission.
4. Under the object settings give the view create and edit permissions to all 3 custom objects (By click open the object)
5. Click on manage assignment
6. Click on add assignment.
7. Click on Teacher (user), Next, Assign.

- Users
- Permission Set Groups
- Permission Sets**
- Custom Code
- Custom Permissions

Didn't find what you're looking for? Try using Global Search.

SETUP Permission Sets

On this page you can create, view, and manage permission sets.

In addition, you can use the SalesforceA mobile app to assign permission sets to a user. Download SalesforceA from the App Store or Google Play: [iOS](#) | [Android](#)

All Permission Sets | Edit | Delete | Create New View

Action	Permission Set Label	Description	License
<input type="checkbox"/> New	Buyside	Allows access to the store. Lets users see p...	B2B Buyer Permission Set One Seat
<input type="checkbox"/> Clone	Buyer Manager	Includes all Buyer capabilities, and allows a...	B2B Buyer Manager Permission Set One Seat
<input type="checkbox"/> Clone	CRM User	Denotes that the user is a Sales Cloud or S...	CRM User

SETUP Permission Sets

Save Cancel

Enter permission set information

Label teacher permission

API Name teacher_permission

Description

Session Activation Required ☐

Select the type of users who will use this permission set

Who will use this permission set?

- Choose "--None--" if you plan to assign this permission set to multiple users with different user and permission set licenses.
- Choose a specific user license if you want users with only one license type to use this permission set.
- Choose a specific permission set license if you want this permission set license auto-assigned with the permission set.

Not sure what a permission set license is? [Learn more here.](#)

License --None--

Save Cancel

SETUP Permission Sets

Find Settings... Clone Delete Edit Properties **Manage Assignments**

Permission Set Overview

Description	API Name	teacher_permission
License	Namespace Prefix	
Session Activation Required	Created By	Unishiv Technologies, 04/04/2023, 4:35 pm
Last Modified By	Unishiv Technologies, 04/04/2023, 4:35 pm	

Apps

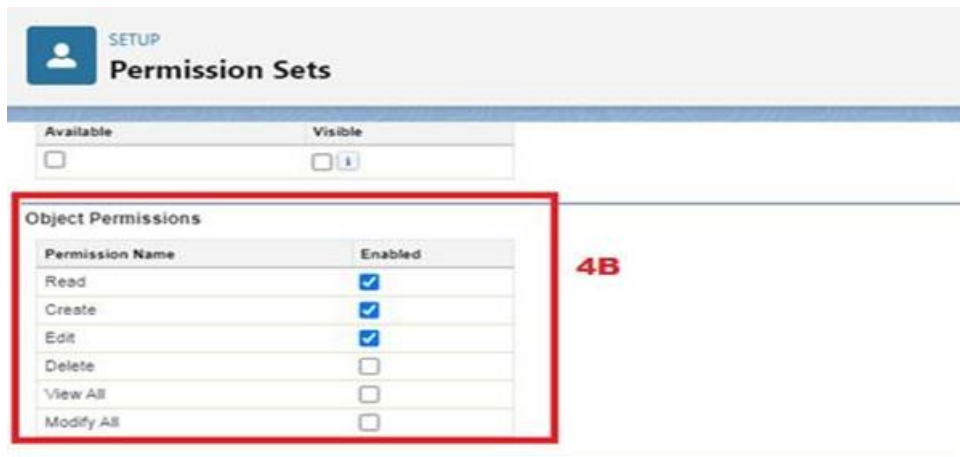
Assigned Apps
Settings that specify which apps are visible in the app menu

Assigned Connected Apps
Settings that specify which connected apps are visible in the app menu

Object Settings
Permissions to access objects and fields, and settings such as tab availability

App Permissions
Permissions to perform app-specific actions, such as "Manage Call Centers"

Apex Class Access
Permissions to execute Apex classes



Similarly, follow the above steps for the permission set 2.

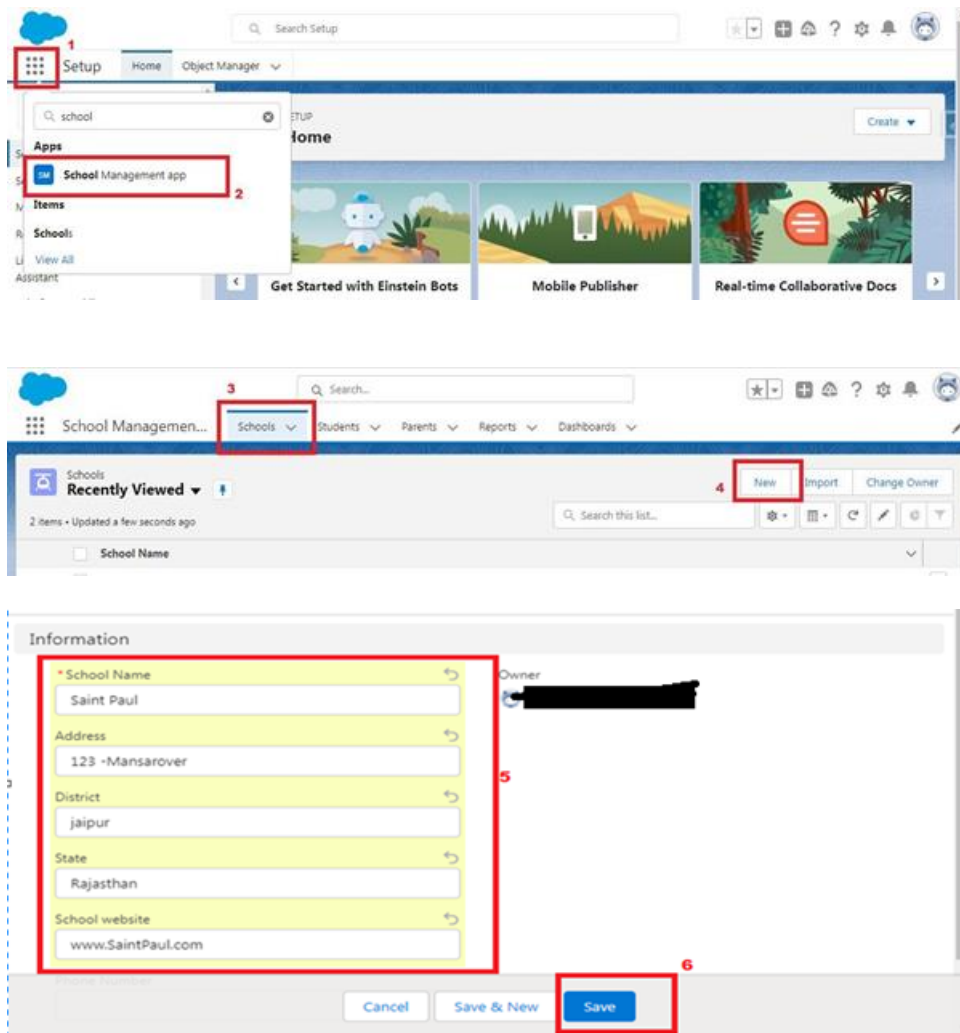
Permission Sets 2:

1. From Setup, enter Permission Sets in the Quick Find box, then select Permission Sets.
2. Click New.
3. Give the name of the Permission set name as Principal permission and then under the object settings give all permissions for the all 3 custom objects and assign them to the Principal user.

User Adoption

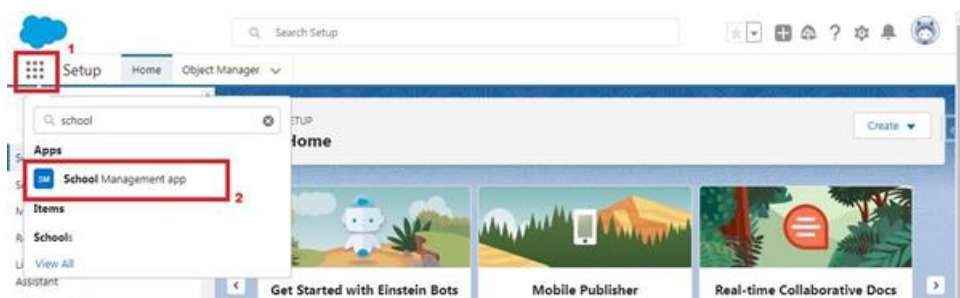
Create Record (School)

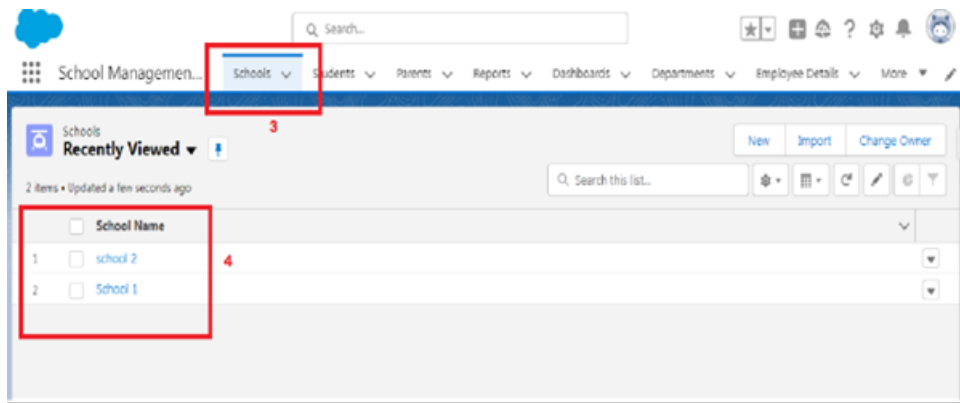
1. Click on App Launcher on left side of screen.
2. Search School Management App & click on it.
3. Click on Schools tab.
4. Click new button
5. Fill all School record details.
6. Click on Save Button



View Record (School):

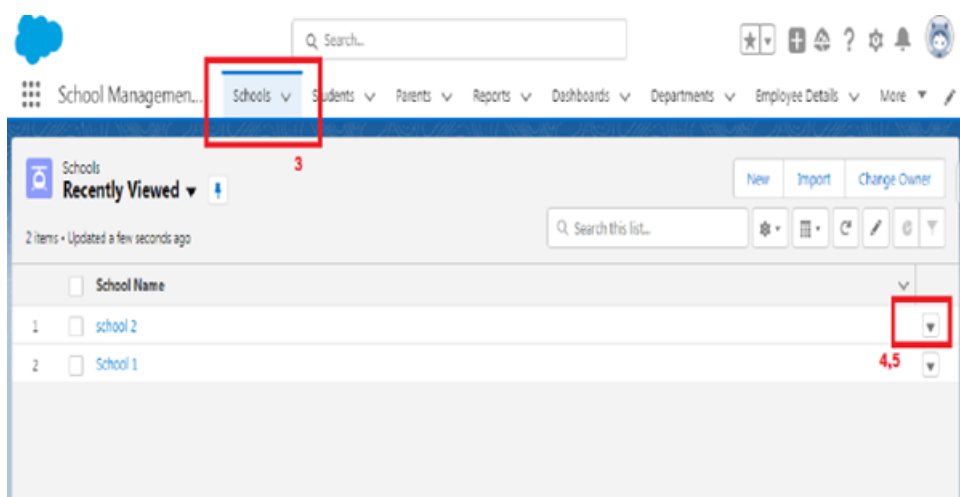
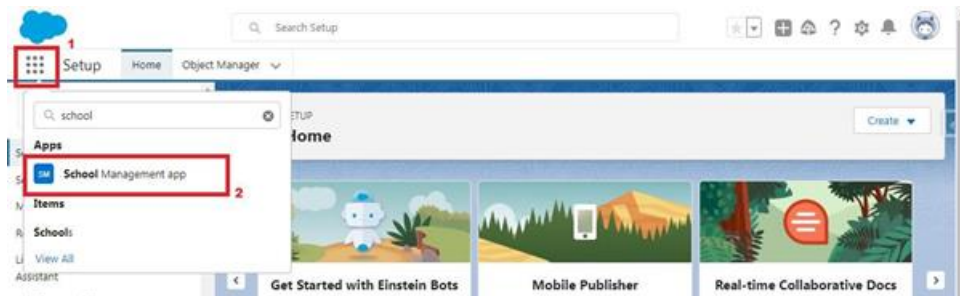
1. Click on App Launcher on left side of screen.
2. Search School Management App & click on it.
3. Click on Schools Tab.
4. Click on any record name. you can see the details of the School.





Delete Record (School):

1. Click on App Launcher on left side of screen.
2. Search School Management App & click on it.
3. Click on Schools Tab.
4. Click on Arrow at right hand side on that Particular record.
5. Click delete and delete again.



Reports:

Reports in Salesforce is a list of records that meet a particular criterion which gives an answer to a particular question. These records are displayed as a table that can be filtered or grouped based on any field.

There are 4 types of report formats in Salesforce:

1.Tabular Reports:

This is the most basic report format. It just displays the row of records in a table with a grand total. While easy to set up they can't be used to create groups of data or charts and also cannot be used in Dashboards. They are mainly used to generate a simple list or a list with a grand total.

2. Summary Reports:

It is the most commonly used type of report. It allows grouping of rows of data, view subtotal, and create charts.

3.Matrix Reports:

It is the most complex report format. Matrix report summarizes information in a grid format. It allows records to be grouped by both columns and rows. It can also be used to generate dashboards. Charts can be added to this type of report.

4.Joined Reports:

These types of reports let us create different views of data from multiple report types. The data in joined reports are organized in blocks. Each block acts as a subreport with its own fields, columns, sorting, and filtering. They are used to group and show data from multiple report types in different views.

Report types:

Report type determines which set of records will be available in a report. Every report is based on a particular report type. The report type is selected first when we create a report. Every report type has a primary object and one or more related objects. All these objects must be linked together either directly or indirectly.

A report type cannot include more than 4 objects.

Once a report is created its report type cannot be changed.

There are 2 types of report types:

1. Standard Report Type:

Standard Report Types are automatically included with standard objects and also with custom objects where "Allow Reports" is checked.

Standard report types cannot be customized and automatically include standard and custom fields for each object within the report type. Standard report types get created when an object is created, also when a relationship is created.

Note: Standard report types always have inner joins.

2. Custom Report Types:

Custom report types are reporting templates created to streamline the reporting process. Custom Reports are created by an administrator or User with "Manage Custom Report Types" permission. Custom report types are created when standard

report types cannot specify which records will be available on reports.

In custom report types we can specify objects which will be available in a particular report. The primary object must have a relationship with other objects present in a report type either directly or indirectly.

There are 3 types of access levels of folders:

1. Viewer:

With this access level, users can see the data in a report but cannot make any changes except cloning it into a new report.

2. Editor:

With this access level, users can view and modify the reports it contains and can also move them to/from any other folders they have access level as Editor or Manager.

3. Manager:

With this access level, users can do everything Viewers & Editors can do, plus they can also control other user's access levels to this folder. Also, users with Manager Access levels can delete the report.

From this milestone we are going to import the data and create the reports and dashboards for data visualization in the application.

Create Report:

Reports:

1. In School Management App click Reports tab.
2. Click New Report.
3. Select the report type as School with students and parents for the report.
4. Click start report.
5. Customize your report, then save and run
6. Give report name – Schools with Students Report
7. Click Save

- NOTE: In this report you can see your all record of the object you selected for reporting (What you Selects in “Select a report type option”).

School Management... Schools Students Parents **Reports** Dashboards

Reports

Recent

3 items

Q Search recent reports...

New Report New Folder

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Opportunity Details		Private Reports		4/4/2023, 1:54 am	
Created by Me	Vehicle Details		Private Reports		3/4/2023, 7:12 pm	
Private Reports	Sample Flow Report: Screen Flow	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	3/4/2023, 1:27 pm	
Public Reports						
All Reports						

Category

Recently Used

All

Accounts & Contacts

Opportunities

Customer Support Reports

Leads

Select a Report Type

Q, sch

Report Type Name	Category
Schools	Standard
Schools with Students	Standard

Schools with Students

Standard Report Type

Start Report

Details

Fields (28)

Created By You

School Management... Schools Students Parents Reports Dashboards

REPORT

New Schools with Students Report

Schools with Students

Save & Run

Save

Close

Run

Previewing a limited number of records. Run the report to see everything.

Update Preview Automatically

Outline

Filters

Groups

GROUP ROWS

Add group...

Columns

Add column...

School: School Name

student: student Name

School: School Name	student: student Name
1 school 2	Markk
2 school 2	Ferry
3 School 1	Jack

Save Report

* Report Name

Schools with Students Report

Report Unique Name

Schools_with_Students_Report_Klh

Report Description

Cancel Save

6

7

Create Report:

Reports:

1. In School Management App click Reports tab.
 2. Click New Report.
 3. Select the report type as School with students and parents for the report.
 4. Click start report.
 5. Customize your report, then save and run
 6. Give report name – Schools with Students Report
 7. Click Save
- NOTE: In this report you can see your all record of the object you selected for reporting (What you Selects in “Select a report type option”).

School Management... Schools Students Parents **Reports** Dashboards

Reports

Recent

3 items

Q Search recent reports...

New Report New Folder

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Opportunity Details		Private Reports		4/4/2023, 1:54 am	
Created by Me	Vehicle Details		Private Reports		3/4/2023, 7:12 pm	
Private Reports	Sample Flow Report: Screen Flow	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	3/4/2023, 1:27 pm	
Public Reports						
All Reports						

Category

Recently Used

All

Accounts & Contacts

Opportunities

Customer Support Reports

Leads

Select a Report Type

Q, sch

Report Type Name	Category
Schools	Standard
Schools with Students	Standard

Details

Schools with Students

Standard Report Type

Start Report

Details Fields (28)

Created By You

School Management... Schools Students Parents Reports Dashboards

REPORT

New Schools with Students Report Schools with Students

Save & Run Save Close Run

Previewing a limited number of records. Run the report to see everything. Update Preview Automatically

School: School Name	student: student Name
1 school 2	Markk
2 school 2	Ferry
3 School 1	Jack

Save Report

* Report Name

Schools with Students Report

6

Report Unique Name

Schools_with_Students_Report_K1h

Report Description

7

Cancel

Save