

## Day 1 :- College Management Application

**Topic :-** create your Salesforce Developer Org To Get Start

### Milestone / Activity :-

- Creating a Developer Account
- Account Activation
- Login to your Salesforce account
  - ☆ Salesforce Login

### Detailed Description :-

To create the Developer Account first we have to login to the Account using the URL :- Developer.Salesforce.com and get into the sign in button. If we already have an account in Salesforce Login using the **Username and the correct password**.

Developer Account will started load to display your account screen. While clicking Setup button it will display a screen as shown below:

### Creating a Developer Account :-

Student Dashboard x Developer Edition Signup | Sales x +

developer.salesforce.com/signup

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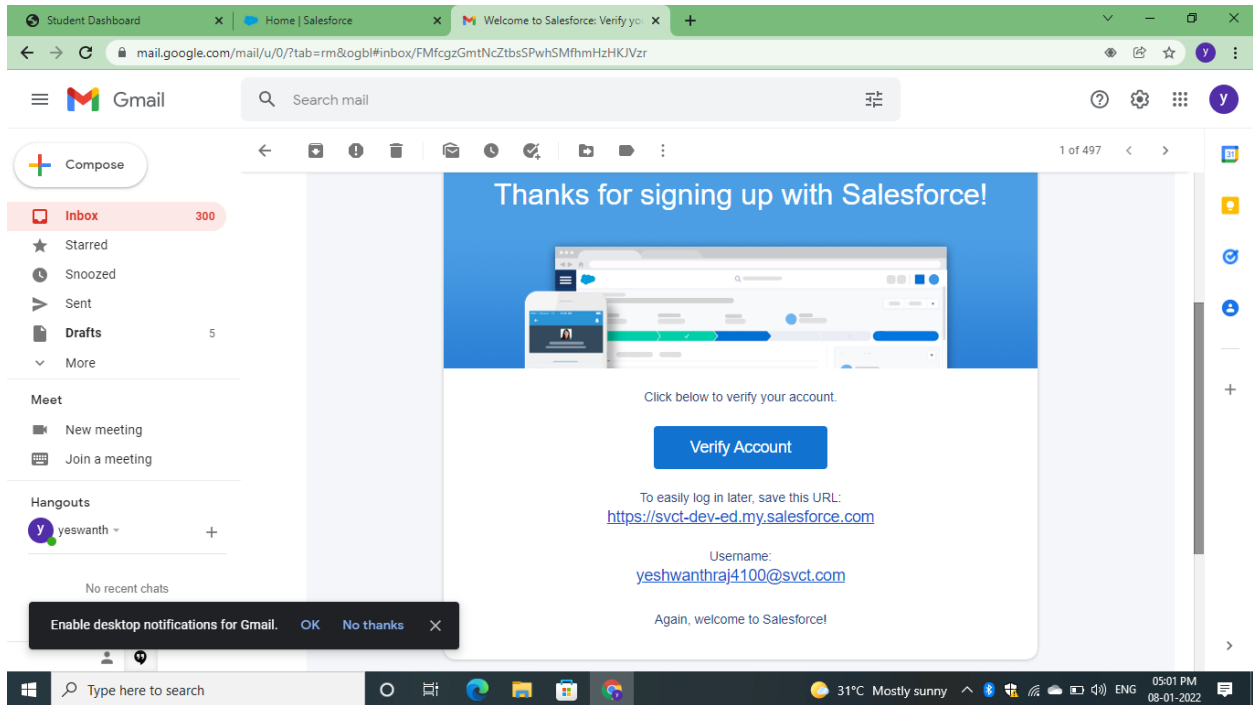
Type here to search

31°C Mostly sunny 04:56 PM 08-01-2022

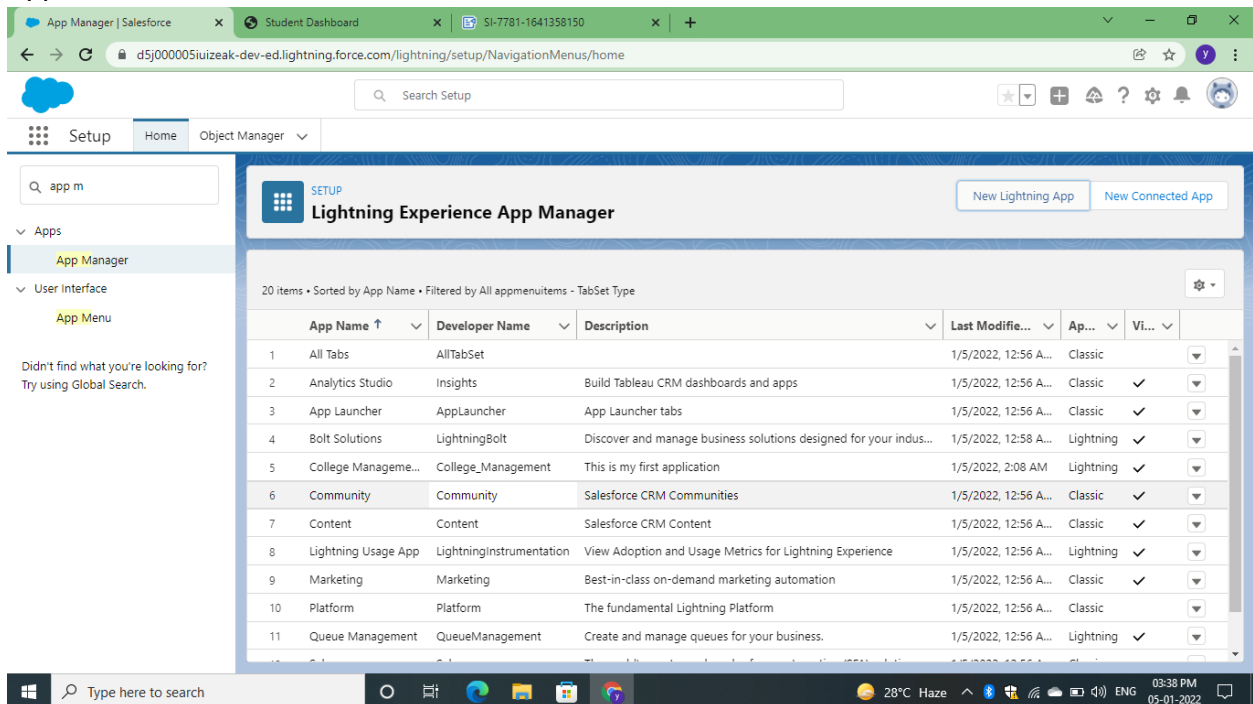
**Object Manager :-** It has two type of object are

- a. Customer Object :- It allows the user to create their own object.
- b. Standard Object :- It is standardly built by the salesforce.

**Account Activation :-**



**Creating the Application called College management using App Manager in New Lightning App.** The screen shot is shown below :-



## Day 2 :-

### Topic :- Customer Object Creation

#### Milestone / Activity :-

Creating the following object for the College Management Application

- ☆ College
- ☆ Application Form
- ☆ Student
- ☆ Subject

#### Detailed Description :-

In College Object we creating the field according to the relationship in the managements.

- ☆ Record Info
- ☆ College Name
- ☆ Hostel Fees
- ☆ College Fees
- ☆ Email
- ☆ Capacity Of Students

The screenshot shows the Salesforce Object Manager interface for the 'College' object. The 'Fields & Relationships' tab is active, displaying a table of 10 fields. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity Of Students	Capacity_Of_Students__c	Picklist		
College Fees	College_Fees__c	Currency(7, 2)		
College name	College_name__c	Picklist		
Created By	CreatedById	Lookup(User)		
Email	Email__c	Picklist		
Hostel Fees	Hostel_Fees__c	Currency(6, 2)		
Last Modified By	LastModifiedById	Lookup(User)		
name	Name	Text(80)		✓
Owner	OwnerId	Lookup(User/Group)		✓
Record Info	Record__c	Text(80)		

In Application Object :- Creating the field, as shown below

- ☆ Application Form ID and Looking For Hostel Stay
- ☆ Address and Phone
- ☆ College and College Fees and Hostel Fees
- ☆ Date Of Birth and Email
- ☆ Guardian Name and Student Name

Student Dashboard | Application Form | Salesforce | SI-7781-1641358150

svct-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000BJJR/FieldsAndRelationships/view

Setup | Home | Object Manager

### Application Form

Details | Fields & Relationships (14 Items, Sorted by Field Label)

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
Application Form ID	Application_Form_ID__c	Auto Number		
Application Form Name	Name	Text(80)		✓
College	College__c	Master-Detail(College)		✓
College Fees	College_Fees__c	Currency(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Email	Email__c	Email (Unique)		✓
Guardian Name	Guardian_Name__c	Text(30)		
Hostel Fees	Hostel_Fees__c	Currency(18, 0)		
Last Modified By	LastModifiedById	Lookup(User)		
Looking For Hostel Stay	Looking_For_Hostel_Stay__c	Checkbox		
Phone	Phone__c	Phone		
Ready To Join	Ready_To_Join__c	Checkbox		

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Creating the field on Student Object :-

- ☆ Student Name and Phone
- ☆ Application Form abd Guardian Name
- ☆ Address and Date Of Birth

Student Dashboard | Student | Salesforce | SI-7781-1641358150

svct-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000BJJW/FieldsAndRelationships/view

Setup | Home | Object Manager

### Student

Details | Fields & Relationships (9 Items, Sorted by Field Label)

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
Application Form	Application_Form__c	Lookup(Application Form)		✓
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Guardian Name	Guardian_Name__c	Text(30)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User, Group)		✓
Phone	Phone__c	Phone		
Student Name	Name	Text(80)		✓

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Creating the field on Subject Object :-

☆ Student and Student ID

☆ Paper 1 and Paper 2

The screenshot shows the Salesforce Object Manager interface for the 'Subject' object. The 'Fields & Relationships' section is active, displaying a table of 8 items. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status. The fields listed are: Created By (Lookup(User)), Last Modified By (Lookup(User)), Owner (Lookup(User, Group)), Paper 1 (Picklist), Paper 2 (Picklist), Student (Lookup(Student)), Subject ID (Auto Number), and Subject Name (Text(80)).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User, Group)		✓
Paper 1	Paper_1__c	Picklist		
Paper 2	Paper_2__c	Picklist		
Student	Student__c	Lookup(Student)		✓
Subject ID	Subject_ID__c	Auto Number		
Subject Name	Name	Text(80)		✓

## Adding the Business Logic to Application

### 1. Creating the Global Picklist Value Sets :-

We are creating the global picklist value set in the project called College Management. It is used to share values across object and the customer fields and to restrict the picklist to only the values that you specify. (1.1)

### 2. Creating the Field dependencies :-

That allows us to change the content of a picklist based on the value of another field. The below screenshot shows the field dependencies (2.1)

### 3. Validation Rule :-

☆ College Object (3.1)

☆ Application Form Object (3.2)

Student Dashboard x Picklist Value Sets | Salesforce x SI-7781-1641358150 x +

svct-dev-ed.lightning.force.com/lightning/setup/Picklists/page?address=%2F0nt5j000000kjVZ

Search Setup

Setup Home Object Manager

picklist

Data

- Picklist Settings
- State and Country/Territory
- Picklists

Objects and Fields

- Picklist Value Sets

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

### Picklist Value Sets

Global Value Set Detail

Information

Label	Paper 2
Name	Paper_2
Description	

Picklist Values Used

Active and inactive picklist values 3 (1,000 max)

Values

Action	Values	API Name	Default	Chart Colors	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	MATHEMATICS	MATHEMATICS	<input type="checkbox"/>	Assigned dynamically	Yeswanth.ra.B. 1/8/2022, 5:14 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	ENGLISH	ENGLISH	<input type="checkbox"/>	Assigned dynamically	Yeswanth.ra.B. 1/8/2022, 5:14 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	STATISTICS	STATISTICS	<input type="checkbox"/>	Assigned dynamically	Yeswanth.ra.B. 1/8/2022, 5:14 AM

Inactive Values

No inactive Values values defined.

Fields Where Used

## Global Picklist value Sets (1.1)

SI-7781-1641358150 x Student Dashboard x College | Salesforce x +

svct-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01i5j000000BJJM/FieldsAndRelationships/viewDependencyList

Search Setup

Setup Home Object Manager

### College

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

Search Layouts for Salesforce Classic

Restriction Rules

### College Field Dependencies

Back to Custom Object: College

This page allows you to define dependencies between fields (e.g., dependent picklists).

Field Dependencies

Action	Controlling Field	Dependent Field	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>	College name	Email	Yeswanth.ra.B. 1/8/2022, 5:24 AM
<a href="#">Edit</a>   <a href="#">Del</a>	College name	Capacity Of Students	Yeswanth.ra.B. 1/8/2022, 5:24 AM

## Field Dependencies (1.2)

SI-7781-1641358150 x Student Dashboard x Object Manager | Salesforce x +

svct-dev-ed.lightning.force.com/lightning/setup/ObjectManager/page?address=%2F03d5j000000DGUJ

Search Setup

Setup Home Object Manager

### Object Manager

#### College Validation Rule

[Back to College](#) [Help for this Page](#)

**Validation Rule Detail** [Edit](#) [Clone](#)

Rule Name	College_Name_Similar	Active	<input checked="" type="checkbox"/>
Error Condition Formula	TEXT(College_name__c) <> Name		
Error Message	This is college name is in record info	Error Location	Top of Page
Description			
Created By	Yessanth raj B. 1/8/2022, 5:39 AM	Modified By	Yessanth raj B. 1/8/2022, 5:39 AM

[Edit](#) [Clone](#)

Type here to search 28°C Mostly clear 07:09 PM 08-01-2022

### Validation Rule - College Object (3.1)

SI-7781-1641358150 x Student Dashboard x Object Manager | Salesforce x +

svct-dev-ed.lightning.force.com/lightning/setup/ObjectManager/page?address=%2F03d5j000000DGUE

Search Setup

Setup Home Object Manager

### Object Manager

#### Application Form Validation Rule

[Back to Application Form](#) [Help for this Page](#)

**Validation Rule Detail** [Edit](#) [Clone](#)

Rule Name	Application_Form_Similar	Active	<input checked="" type="checkbox"/>
Error Condition Formula	AND( Ready_To_Join__c == true, OR( ISCHANGED( Address__c ), ISCHANGED( College__c ), ISCHANGED( Date_of_Birth__c ), ISCHANGED( Email__c ), ISCHANGED( Guardian_Name__c ), ISCHANGED( Phone__c ) ) )		
Error Message	This application form is in creation	Error Location	Top of Page
Description			
Created By	Yessanth raj B. 1/8/2022, 5:38 AM	Modified By	Yessanth raj B. 1/8/2022, 5:38 AM

[Edit](#) [Clone](#)

Type here to search 28°C Mostly clear 07:08 PM 08-01-2022

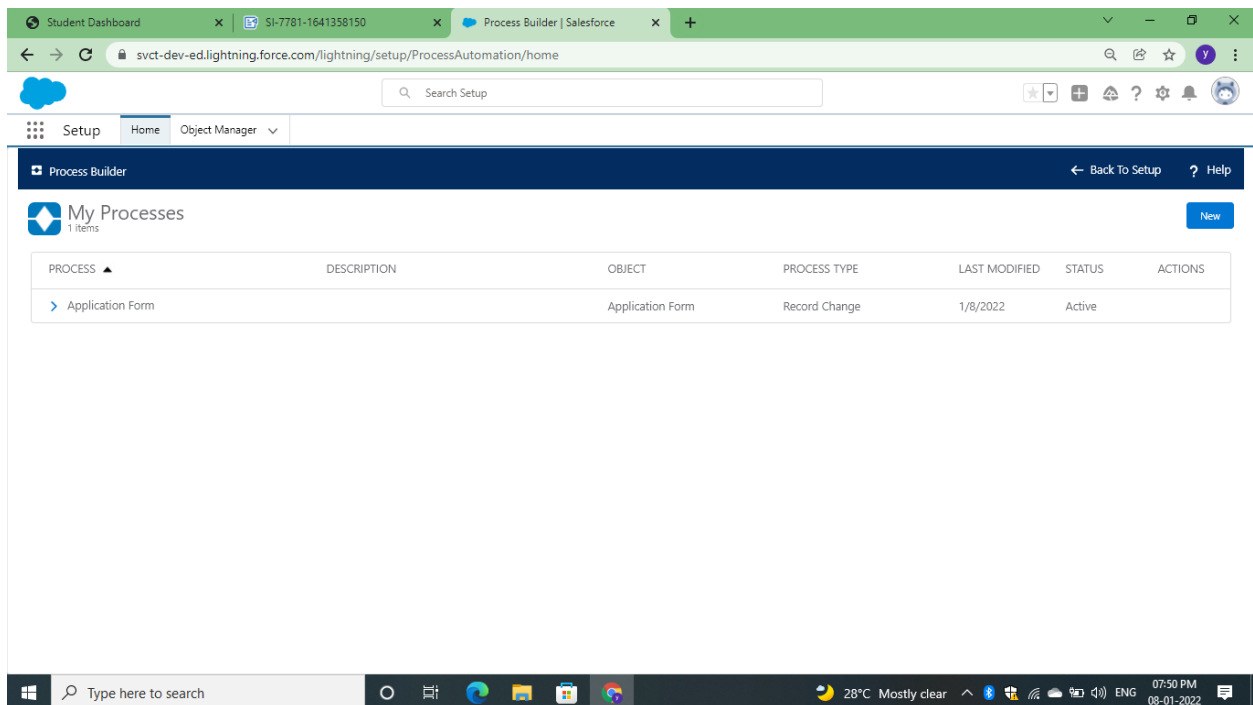
### Validation Rule - Application Form Object (3.2)

## Day 3

### Topic :- Process Automation :-

#### Milestone / Activity :-

Process Builder is the tool for admins and also capable of performing everything workflow with the exception of sending outbound message - message to another person. Better example is that we are doing the College Management Application.



Go to setup ---> in quick finder search **Process Builder** ---> click process builder then ---> click new ---> Create a process builder on "**Application Form**" process start when a record change



## Day 4

### Topic :- Flow builder

### Milestone / Activity :-

1. Navigate to setup --> Search flows in **Quick Finder** --> **click on New Flow.**

Flow Label	Process Type	Active	Tem...	Package State	Pack...	Last Modifi...	Last Modified D...
Cancel Item Flow	Screen Flow	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Create a Case	Screen Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Create Order Summary Flow	Autolaunched Flow	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Create Process Exception Flow	Autolaunched Flow	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Create Reship Order	Screen Flow	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Discount Flow	Screen Flow	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Inbound Cancel Appointment	Salesforce Scheduler Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Inbound Modify Appointment	Salesforce Scheduler Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Inbound New Appointment	Salesforce Scheduler Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Inbound New Guest Appointment	Salesforce Scheduler Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Outbound Modify Appointment	Salesforce Scheduler Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Outbound New Appointment	Salesforce Scheduler Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Reset Appointment	Screen Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			

2. In object manager, we already created the customer object **Student** with phone, email, name and etc.

The screenshot shows the Salesforce Object Manager interface for the 'Student' object. The 'Fields & Relationships' tab is selected, 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, Application Form, College Name, Created By, Date of Birth, Email, Guardian Name, Last Modified By, and Owner. The 'Application Form' field is highlighted in blue.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
Application Form	Application_Form__c	Lookup(Application Form)		✓
College Name	College_Name__c	Formula (Text)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Email	Email__c	Email		
Guardian Name	Guardian_Name__c	Text(30)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User/Group)		✓

Student Record is created using element called **Create Record**. Next creating the screen name the element has Student Information and Success Screen.

The screenshot shows the Salesforce Flow Builder interface. The flow is titled 'Student Records - V1'. The flow starts with a 'Screen Flow Start' element, followed by a 'student information Screen' element, then a 'Student Record Create Records' element, then a 'success screen Screen' element, and finally an 'End' element. The 'Student Record Create Records' element is highlighted in red. The left sidebar shows the 'Toolbox' with 'Manager' and 'Resources' sections. The 'Resources' section lists 'Screen Components (4)' (Email, Name, phone, record\_saved\_successfully) and 'Variables (1)' (StudentId from Student\_Record). The 'ELEMENTS' section lists 'Create Records (1)' (Student\_Record) and 'Screens (2)' (student\_information, success\_screen).

Output :-

Student Records

Phone

Name

First Name

Last Name

Email

you@example.com

Next

## Day 5 :- Apex

### Topic :- Developer console

#### Milestone / Activity :-

##### 1. querying from child to parent

`select Student_Name __c, Gaudian_Name__c, Date_of_Birth__c from Application_Form__c`

##### 2. querying from parent to child

`select id, College_Name__c, (select id, Student_Name __c, Gaudian_Name__c, Date_of_Birth__c from Application_Form__c)`

Negotiation to setup --> click Developer Console

Apex Trigger that will execute before or after the following operation

- ☆ insert
- ☆ update
- ☆ delete

Before an object record are inserted into the database, after record have been deleted or even after a reord is restored from the recycle bin. There are two type of triggers - before and after trigger. In the developer Console , click File | new | apex trigger.

Then enter College Management - trigger management

Developer Console - Google Chrome

svct-dev-ed.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

Application\_Form\_\_c@2:22 PM Application\_Form\_\_c@2:31 PM Application\_Form\_\_c@2:32 PM

select id, Date\_of\_Birth\_\_c, Address\_\_c, Email\_\_c, Guardian\_Name\_\_c from Application\_Form\_\_c

Query Results - Total Rows: 0

Id	Date_of_Birth__c	Address__c	Email__c	Guardian_Name__c
----	------------------	------------	----------	------------------

Query Grid: Save Rows Insert Row Delete Row Refresh Grid

Access in Salesforce: Create New Open Detail Page Edit Page

Logs Tests Checkpoints Query Editor View State Progress Problems

select id, Date\_of\_Birth\_\_c, Address\_\_c, Email\_\_c, Guardian\_Name\_\_c from Application\_Form\_\_c

Any query errors will appear here...

Execute Use Tooling API

History

- Executed
- select id, Date\_of\_Birth\_\_c, Address\_\_c, Ema...
- select id, Date\_of\_Birth\_\_c, Address\_\_c, Ema...
- select id, Date\_of\_Birth\_\_c, Address\_\_c from...
- select id, Date\_of\_Birth\_\_c from Application...

24°C Light rain 03:00 PM 17-01-2022

Developer Console - Google Chrome

srivenkateswaraacollegeof50-dev-ed.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

College\_\_c@3:31 PM Application\_Form\_\_c@3:32 PM

select id, College\_fee\_\_c, Date\_of\_Birth\_\_c, Email\_\_c from Application\_Form\_\_c

Query Results - Total Rows: 5

Id	College_fee__c	Date_of_Birth__c	Email__c
a015j000007yMq4AAE	100000	2022-01-06	dilip@gmail.com
a015j000007yMpuAAE	100000	2022-01-06	rakesh@gmail.com
a015j000007yMppAAE	100000	2022-01-06	ramesh@gmail.com
a015j000007yMowAAE	100000	2022-01-06	yeswa@gmail.com
a015j000007yMpqAAE	100000	2022-01-06	monika@gmail.com

Query Grid: Save Rows Insert Row Delete Row Refresh Grid

Access in Salesforce: Create New Open Detail Page Edit Page

Logs Tests Checkpoints Query Editor View State Progress Problems

select id, College\_fee\_\_c, Date\_of\_Birth\_\_c, Email\_\_c from Application\_Form\_\_c

Any query errors will appear here...

Execute Use Tooling API

History

- Executed
- select id, College\_Name\_\_c from College\_\_c
- select id, College\_fee\_\_c, Date\_of\_Birth\_\_c, Email\_\_c from Appl...

24°C Light rain 03:33 PM 17-01-2022