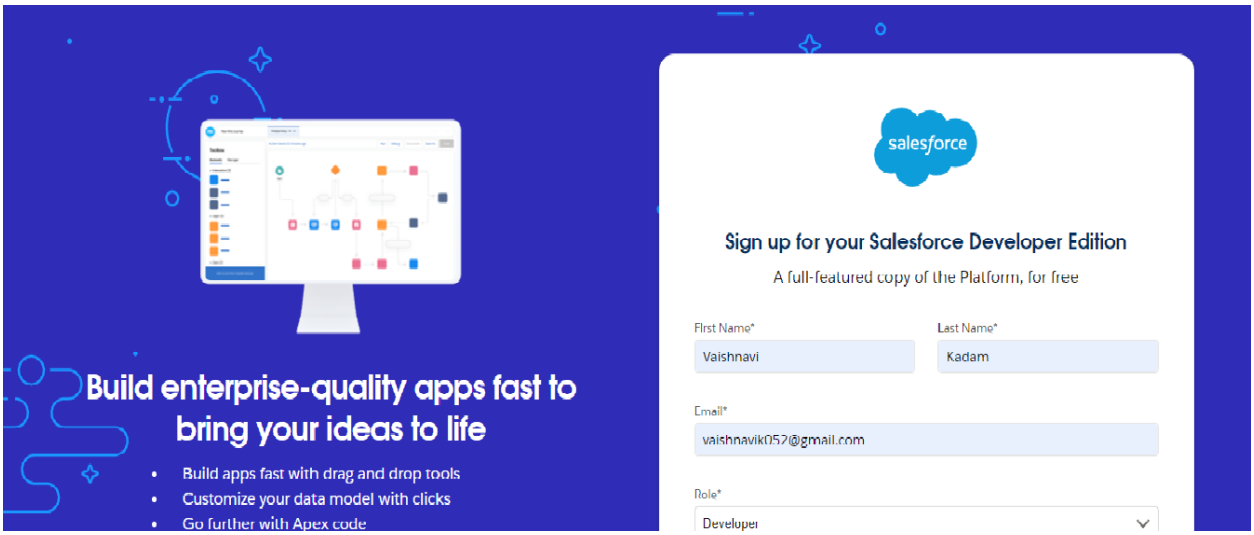
DAY1:

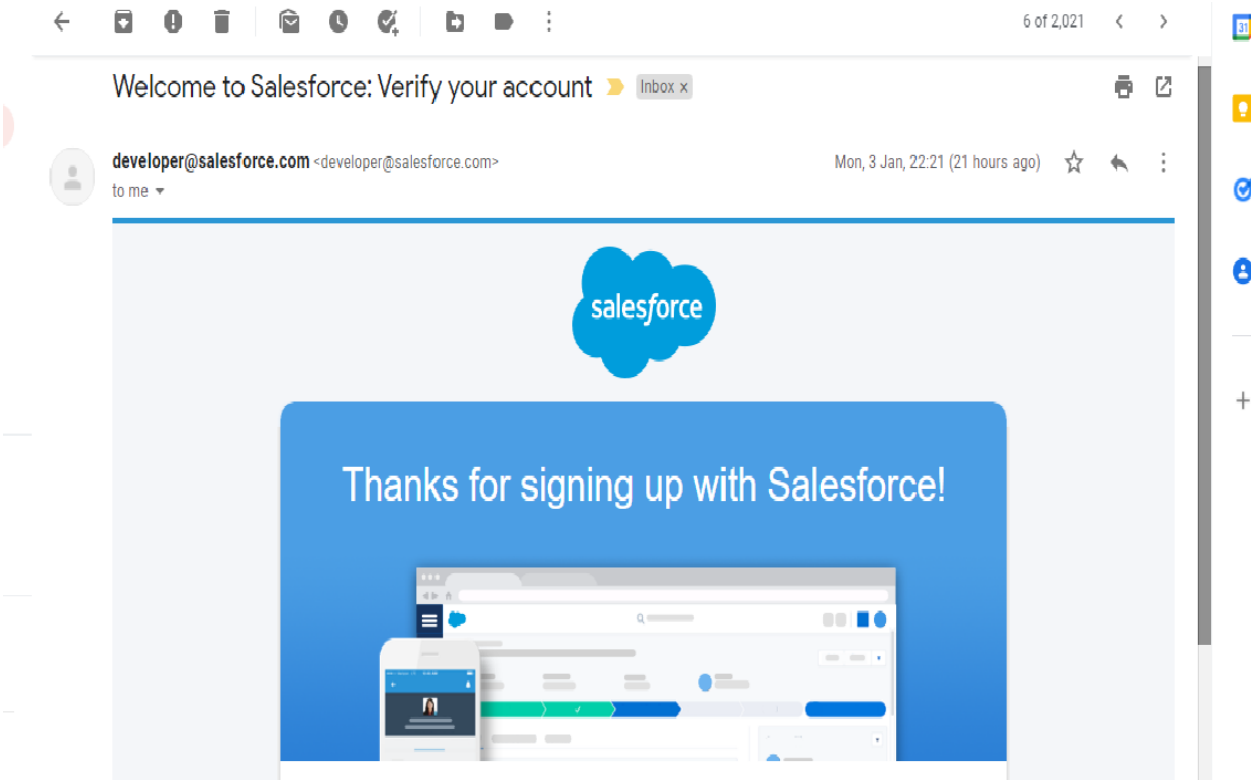
To create College Management Application Project

Created Salesforce Developer Org to get started

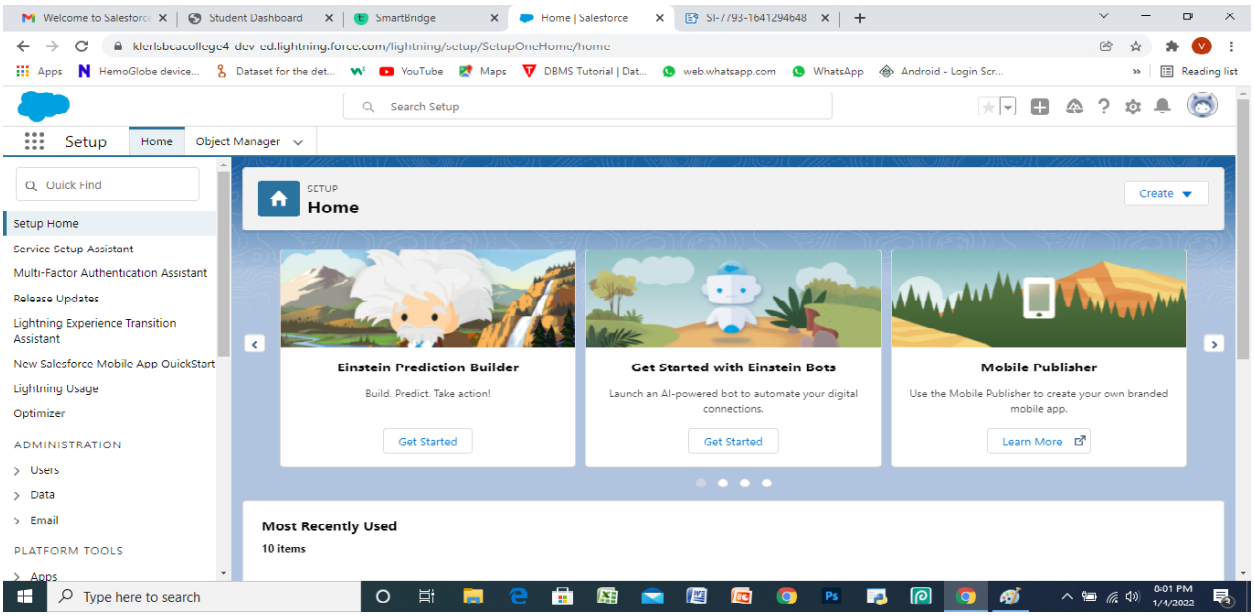
> Created developer Account



> Account activation



> Login to salesforce account



Additional things learned in 1st session

> Sandbox

> 4 Types of sandbox

- developer sandbox
- developer pro sandbox
- partial copy sand box
- full copy sandbox

> objects

> environment

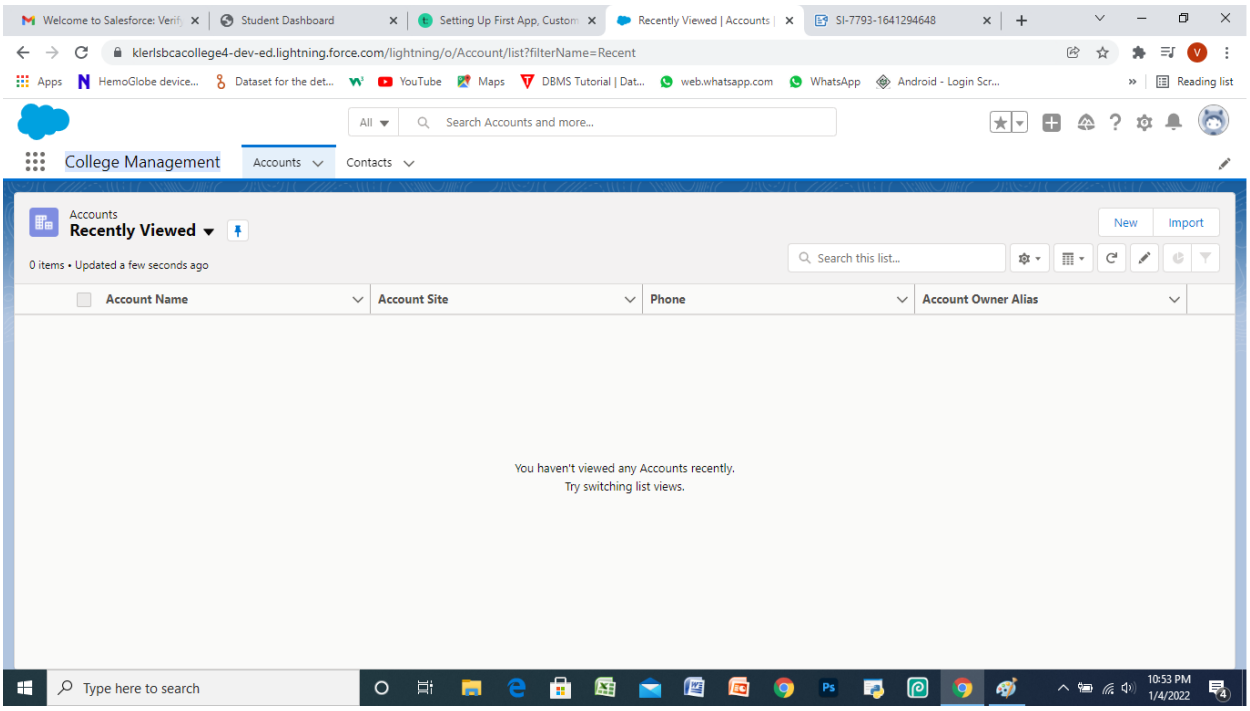
> relationship

> fields

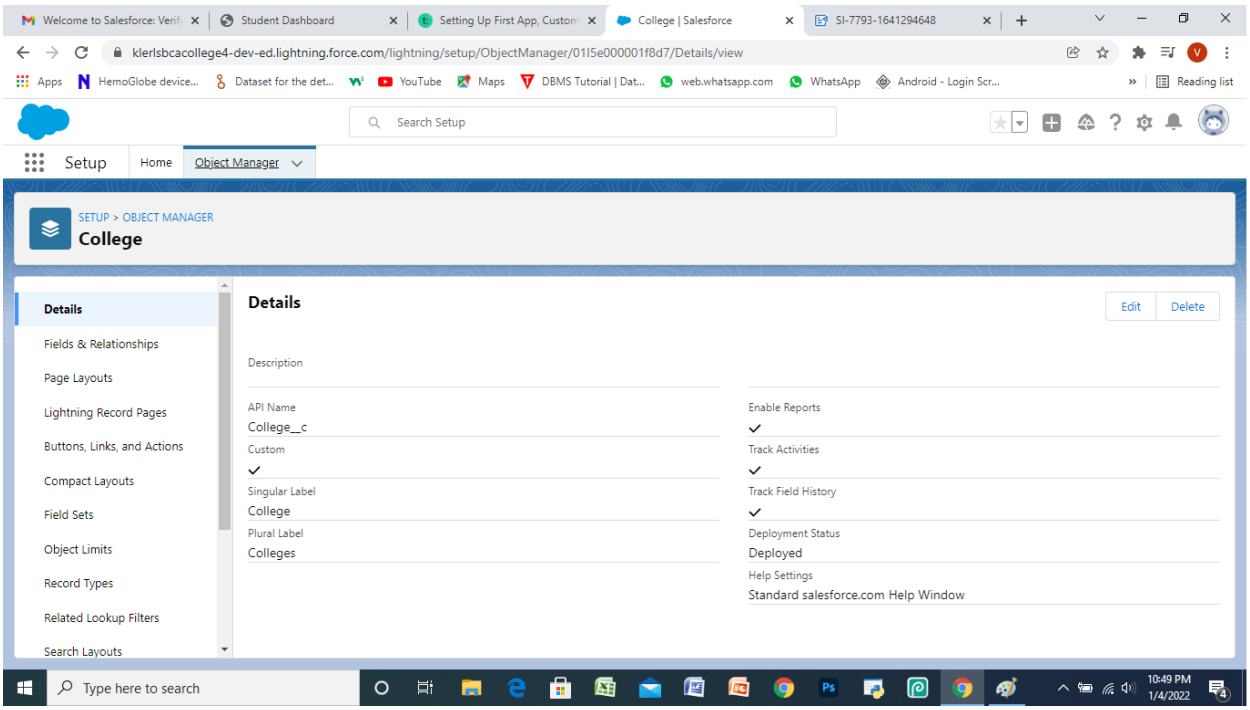
DAY 2:

Custom object creation

Create application called **COLLEGE MANAGEMENT APPLICATION**



> Create custom object called COLLEGE for application



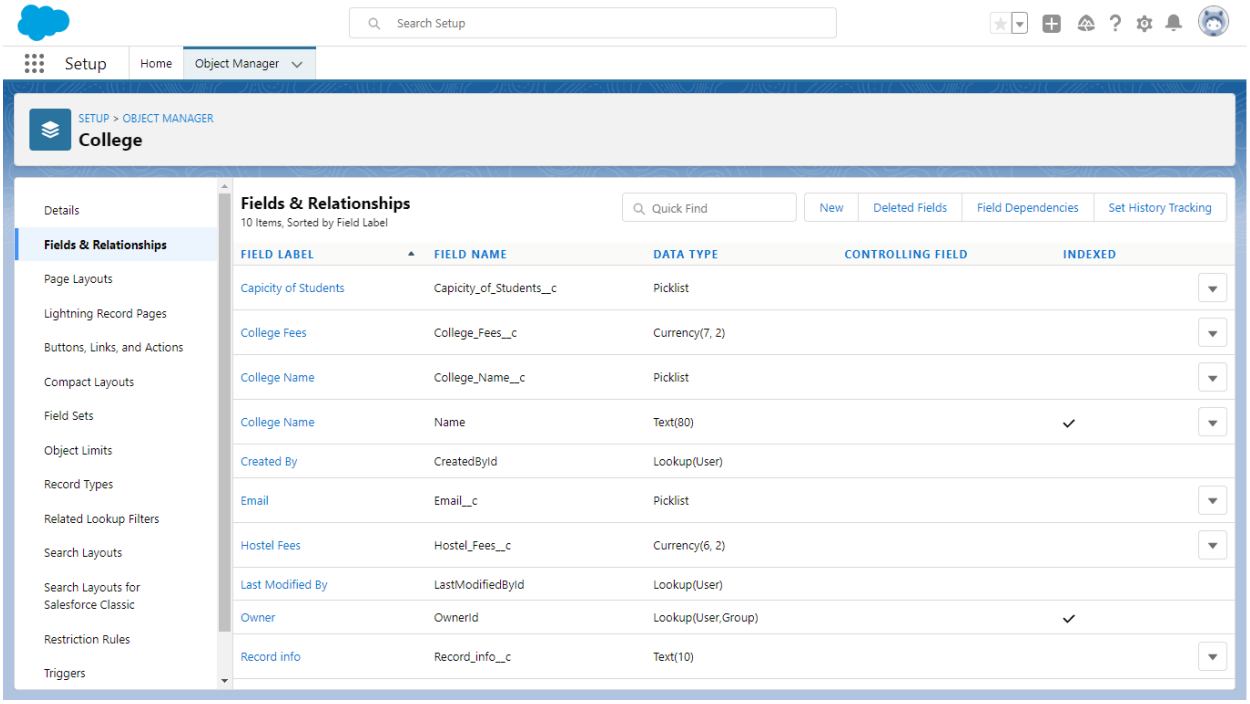
> Create fields for **COLLEGE** custom object

Record info

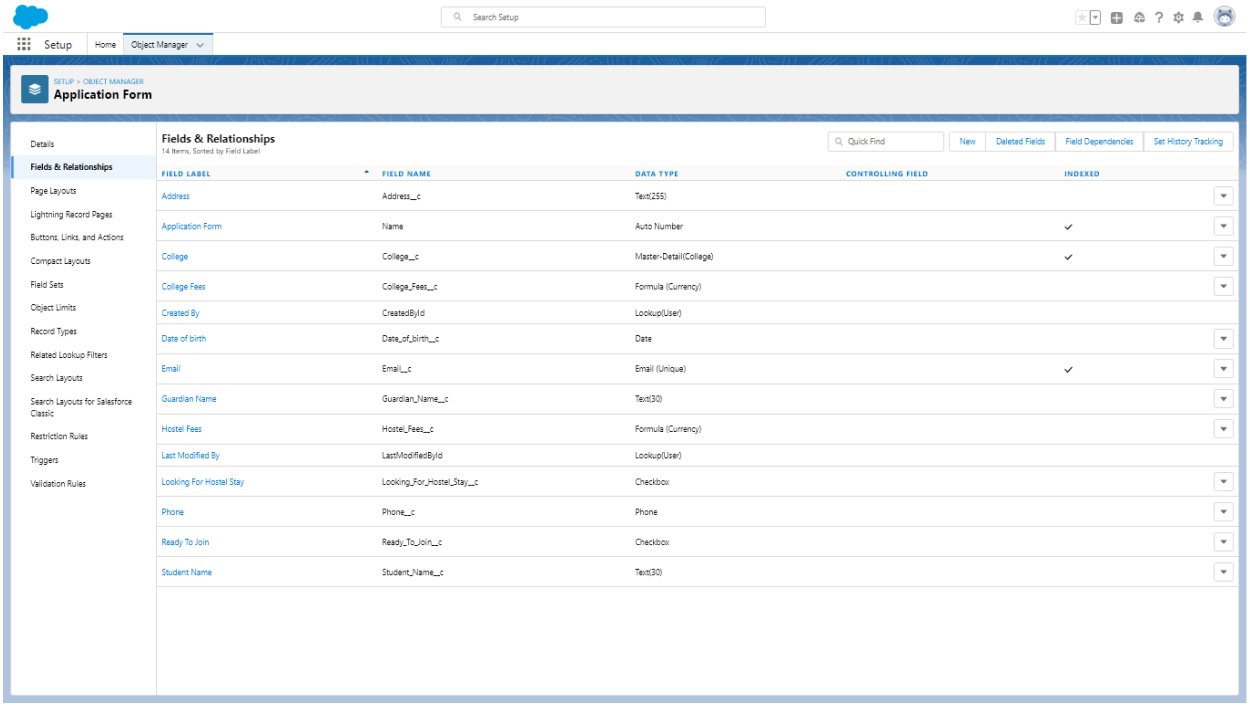
College Fees

Hostel Fees

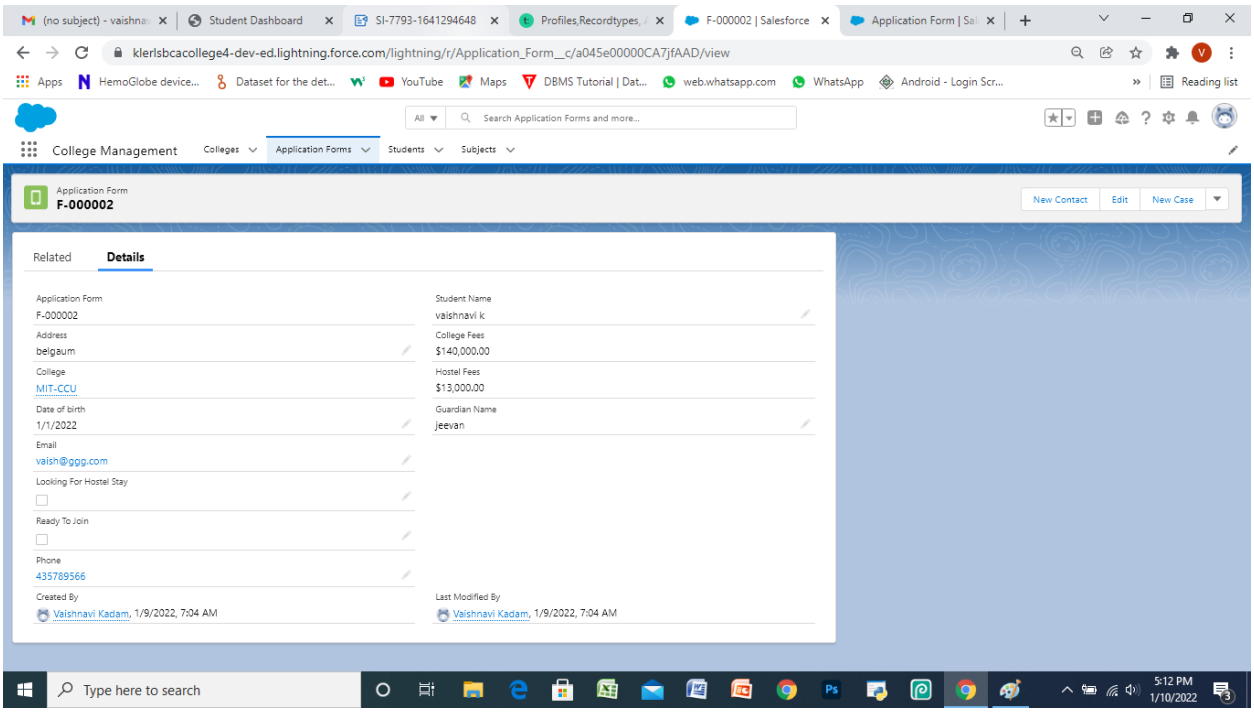
College Name
Email
Capacity of students



> Create Fields on **Application Form** object
  Address
  College
  College Fees
  Hostel Fees
  Date of birth
  Email
  Guardian Name
  Looking for hostel stay
  Ready to join
  Student name
  Phone



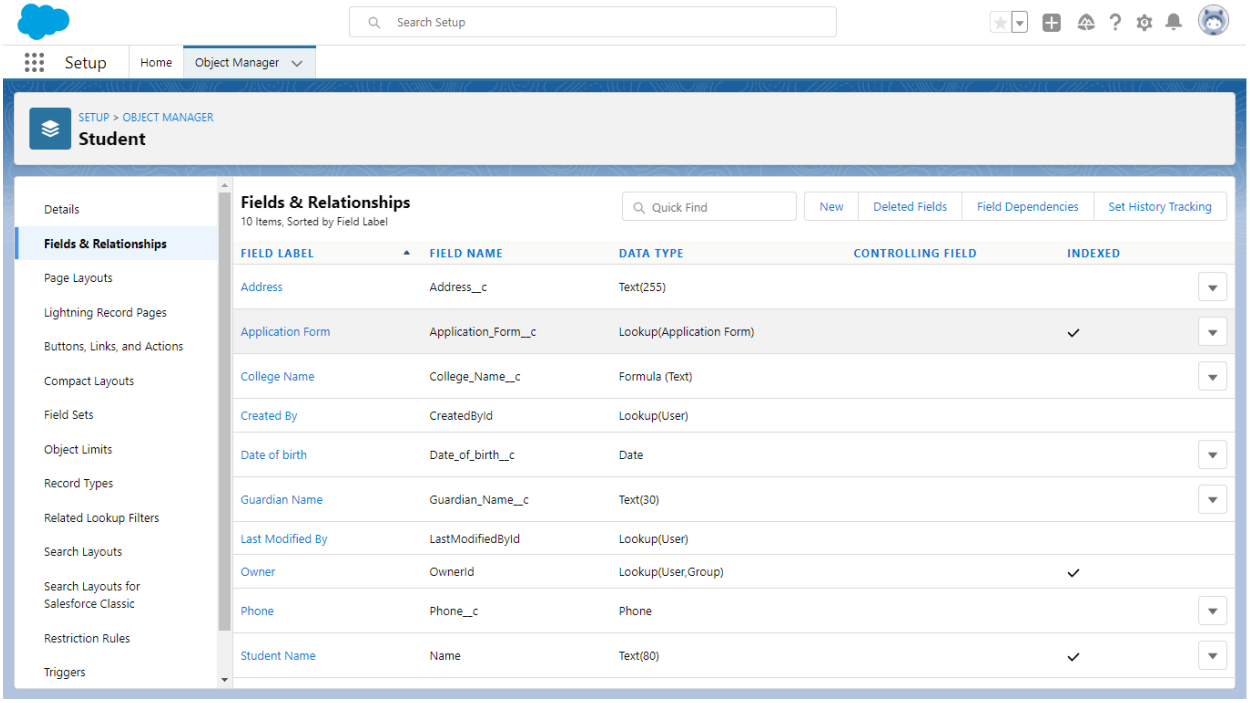
1 Application record created



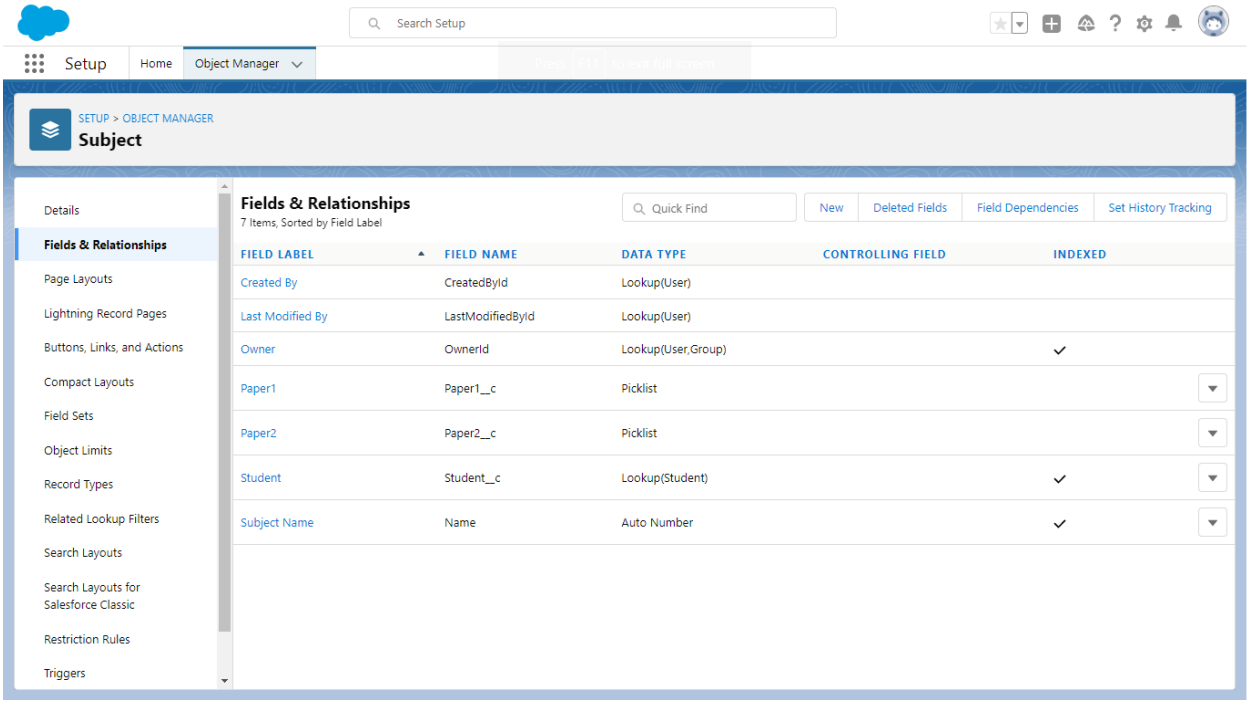
DAY 3:

> Create fields of **Student**

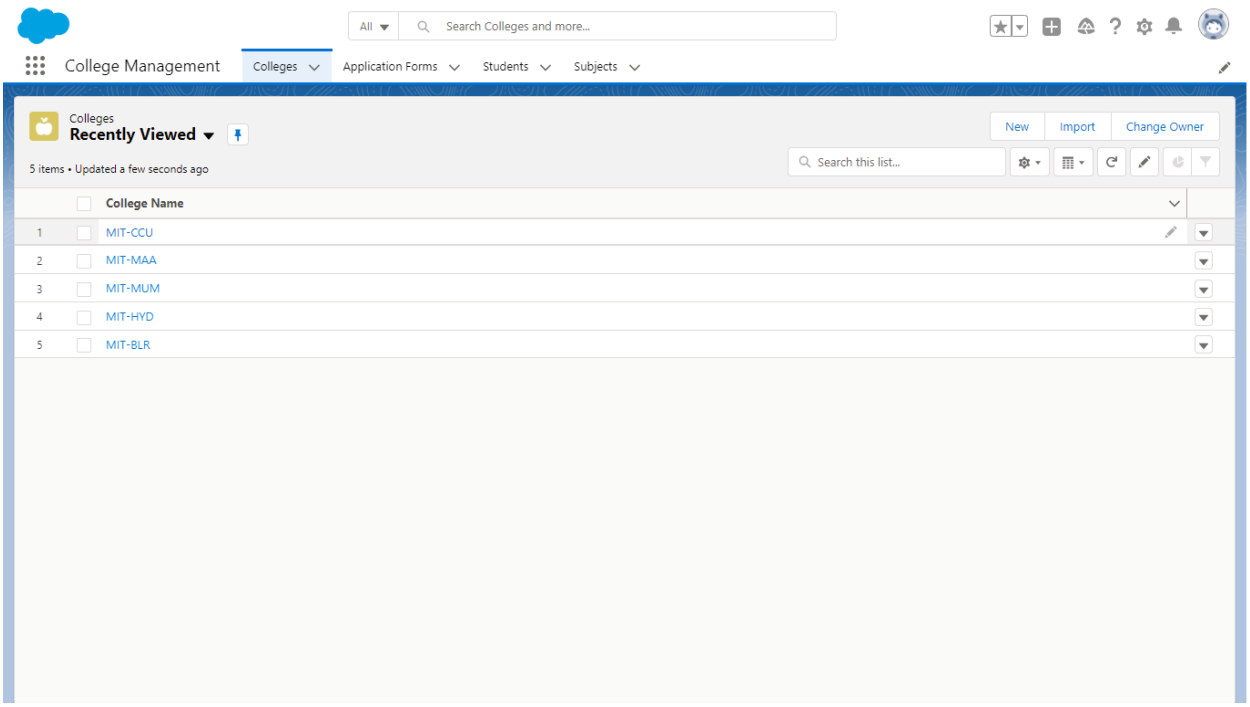
Address
Application Form
College name
Date of birth
Guardian name
Phone



> Create fields on **Subject** object
  Paper1
  Paper2
  Student



> college management application display

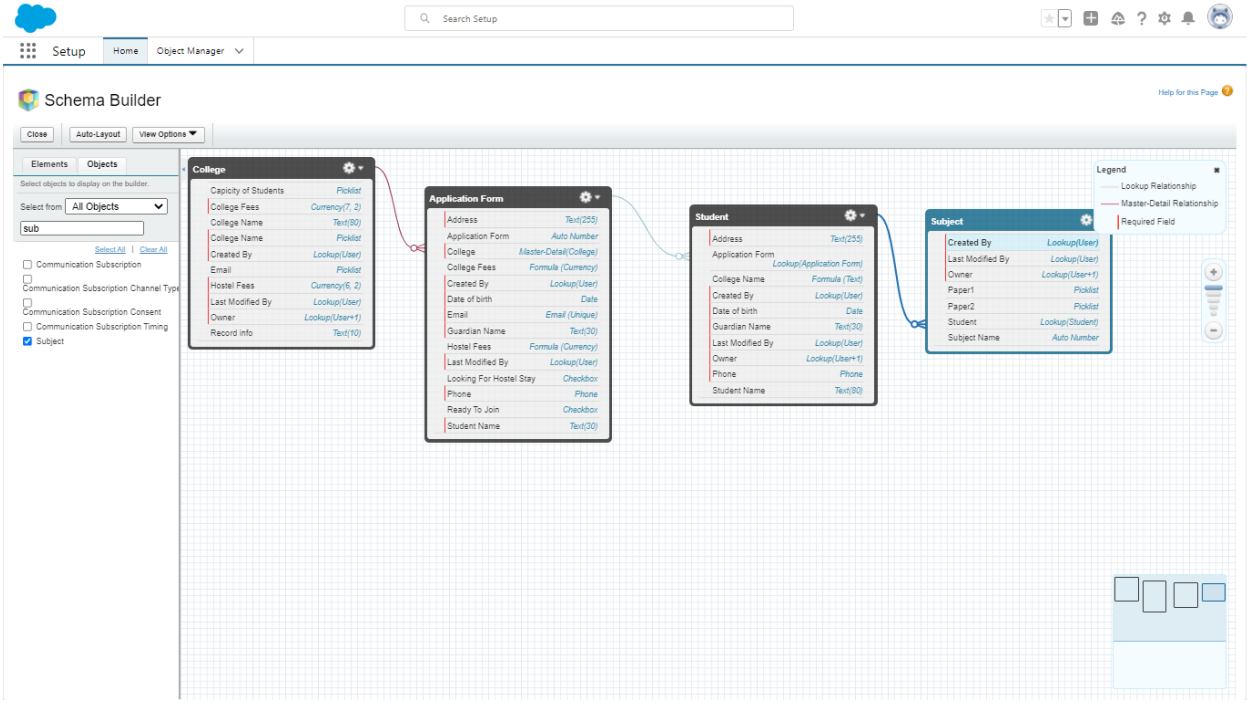


here the tabs are in lookup relationship

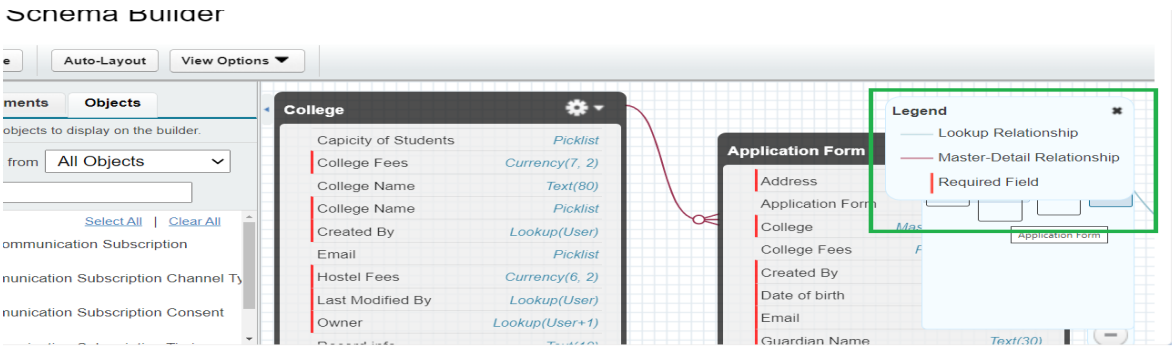
COLLEGE >> APPLICATION FORM >> STUDENT >> SUBJECT

> Schema Builder

It is Pictorial representation schema diagram

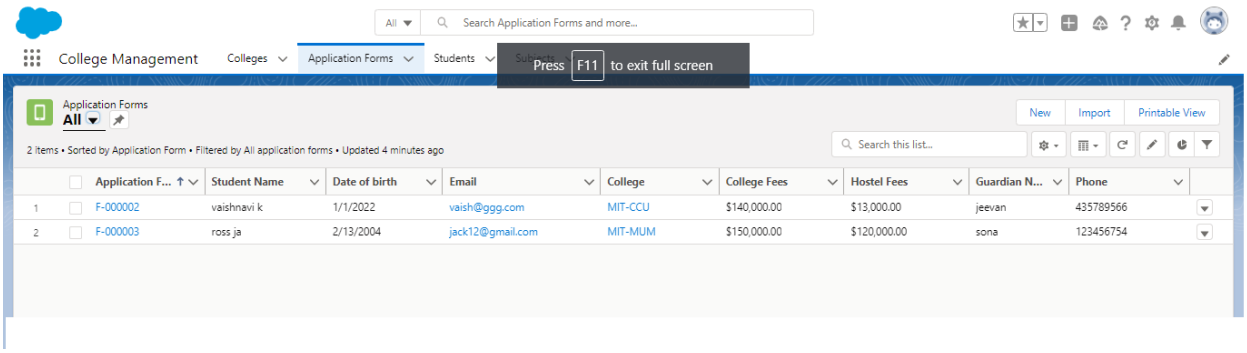


> **Legend** it shows symbolic representation ,which symbol represents what.

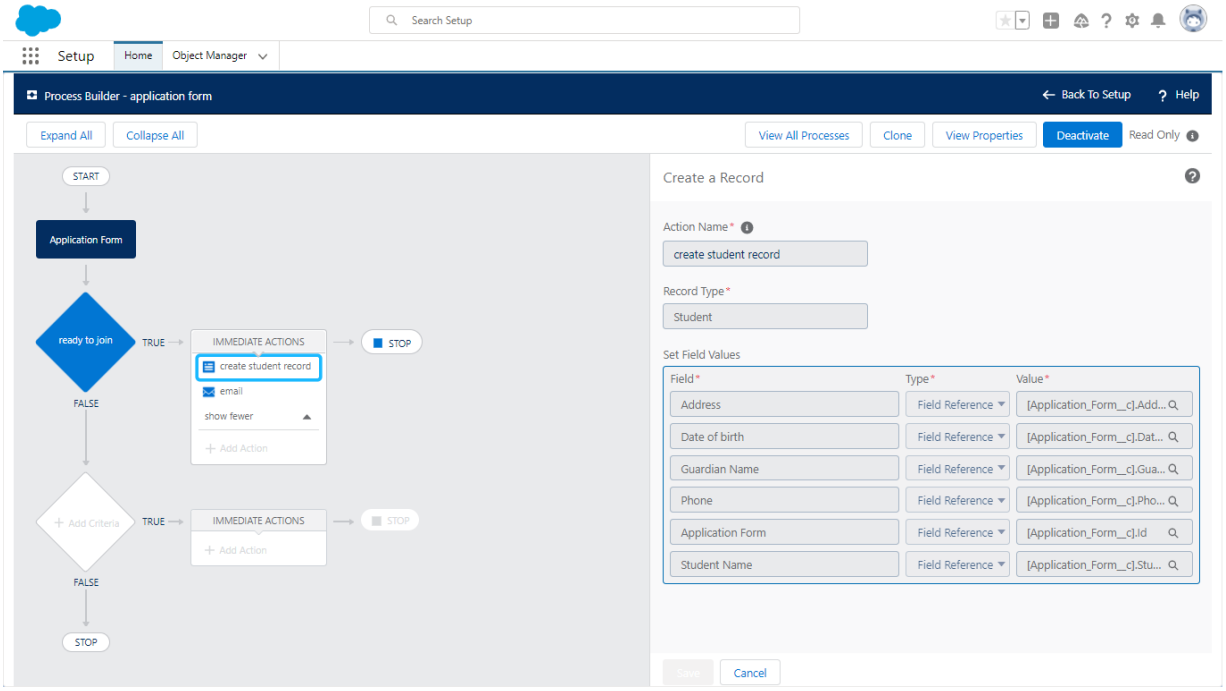


> How to display list view fields

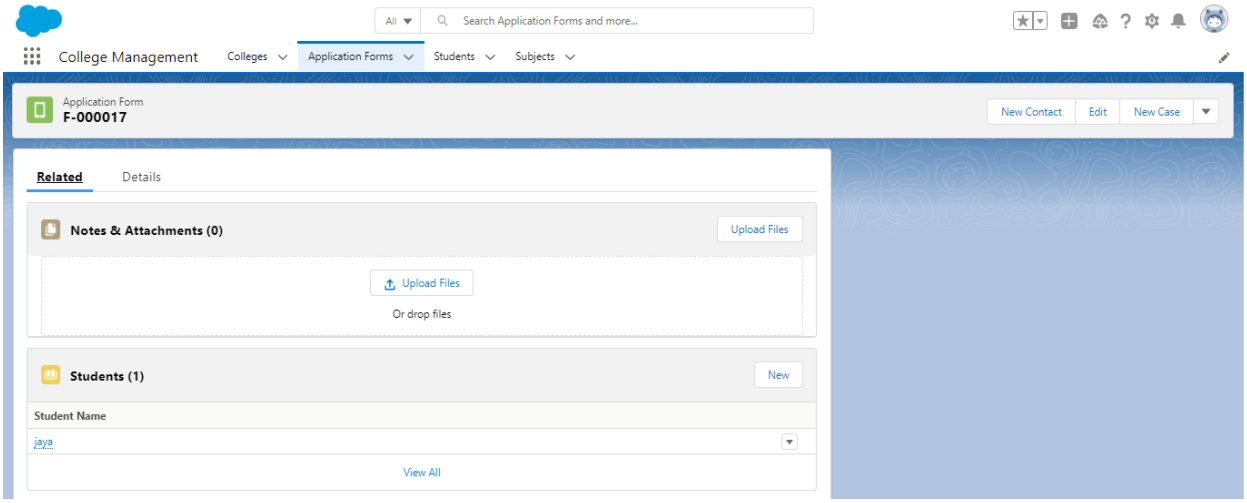
1. Go to list view ,select all
2. Click list view control
3. Select fields to display
4. Select the fields that you want to display.



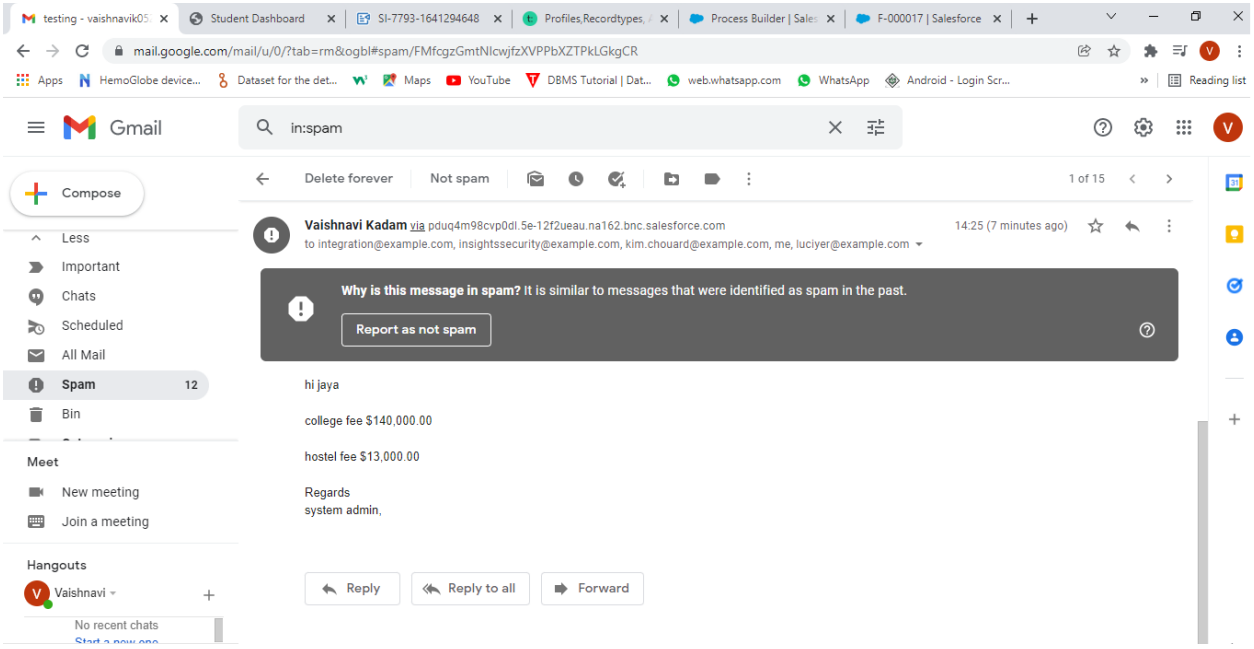
> Process Automation



New record created

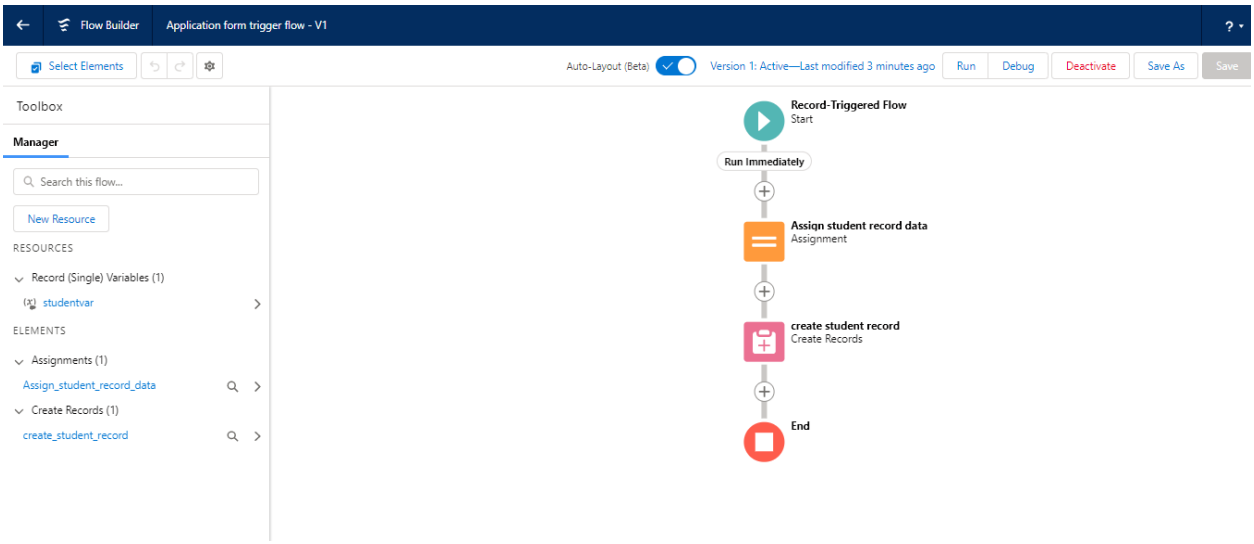


email for record creation

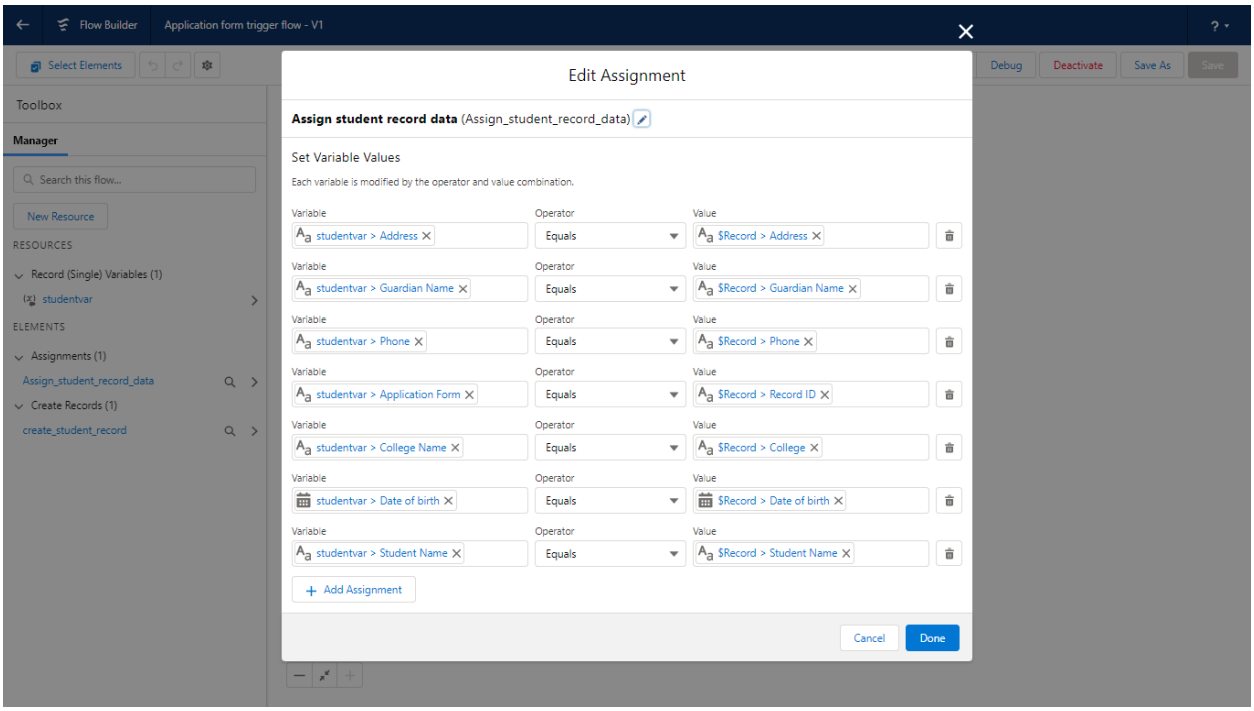


DAY 4:

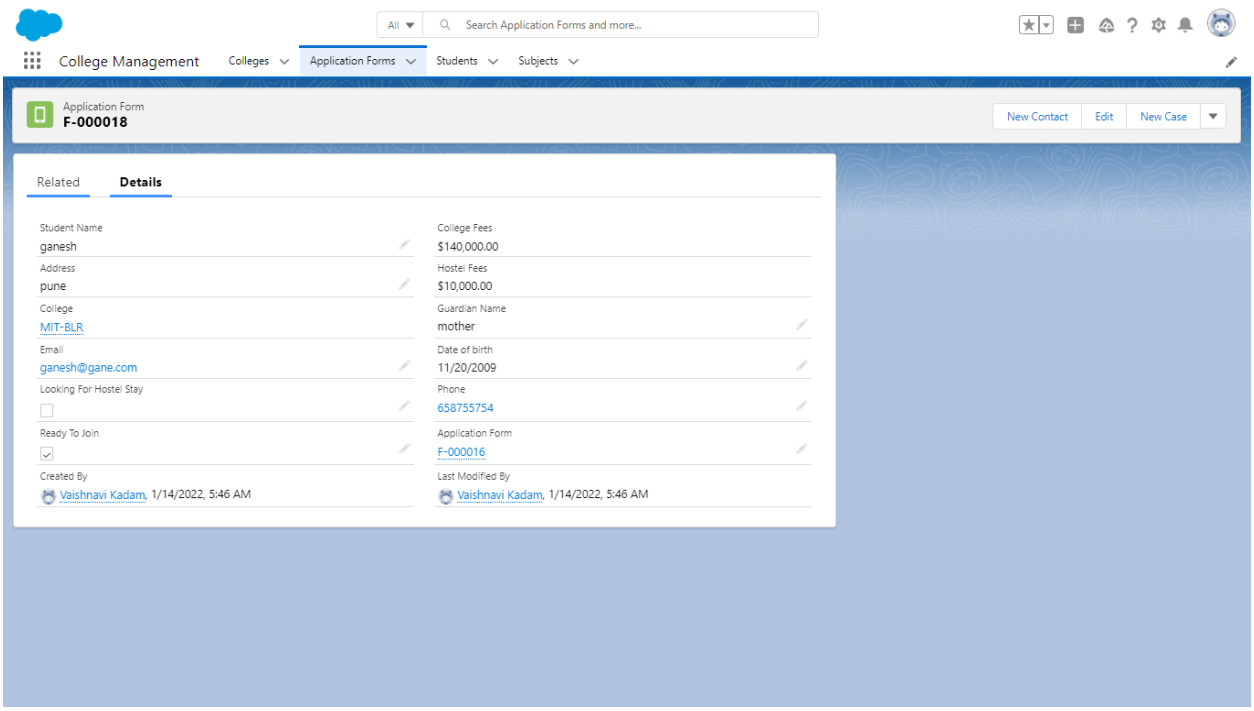
> Create student record using flow



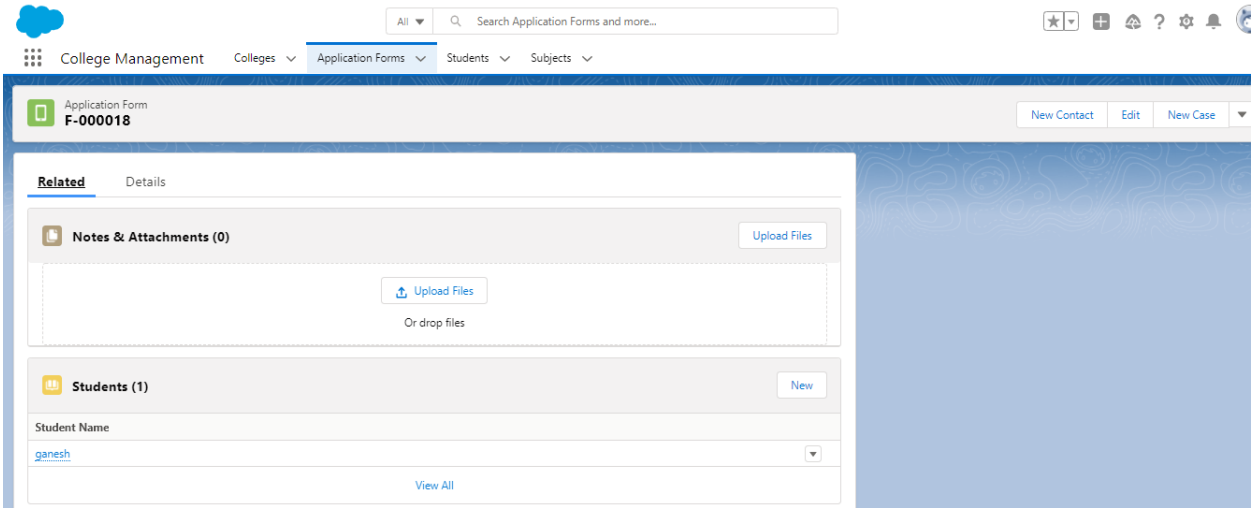
assign student record data



> record created using flow



> Related data

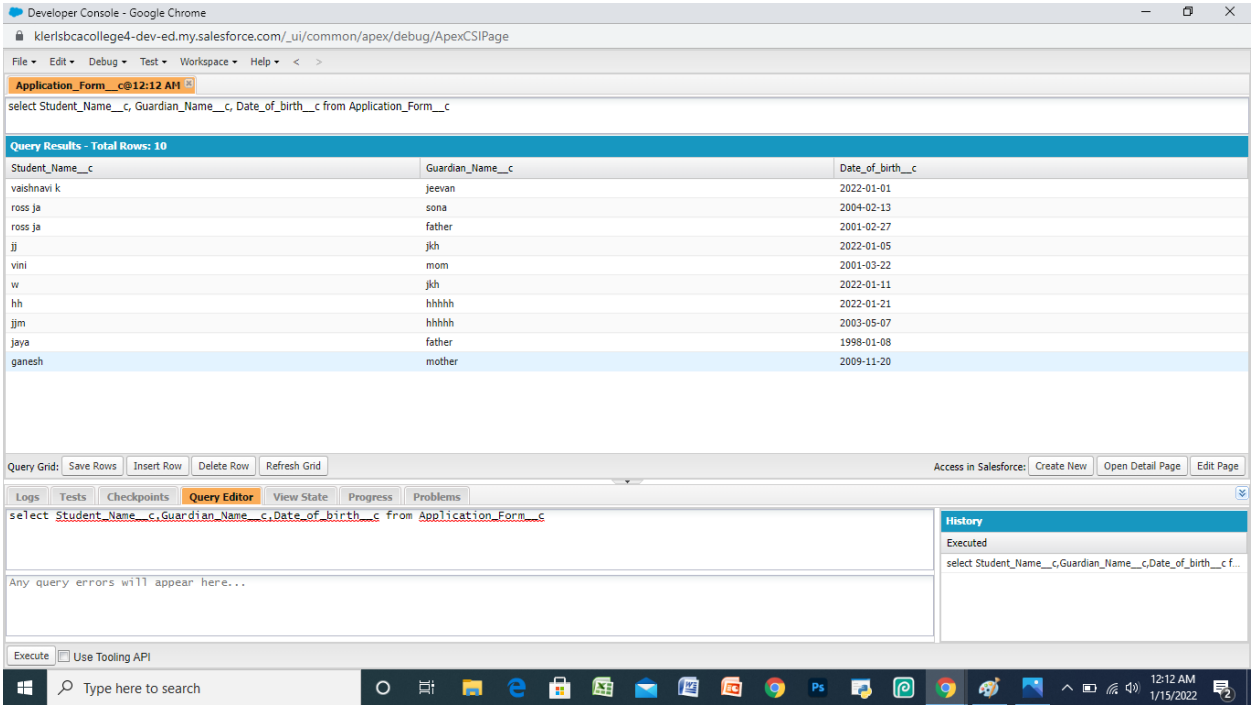


> learned about developer console
> salesforce primitive datatypes : boolean ,string,date,time,id, integer ,double
> collection: list,map,set

DAY 5:

> Query
  SOQL :Salesforce object query object

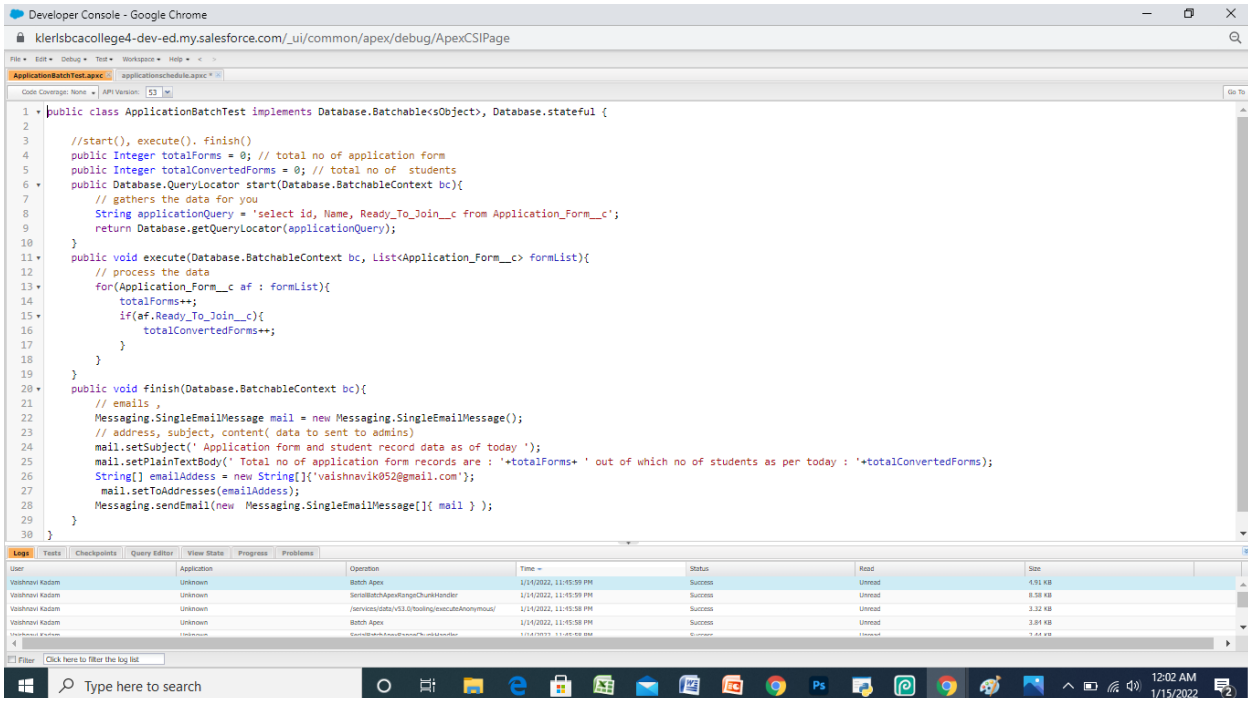
Query example for Application form



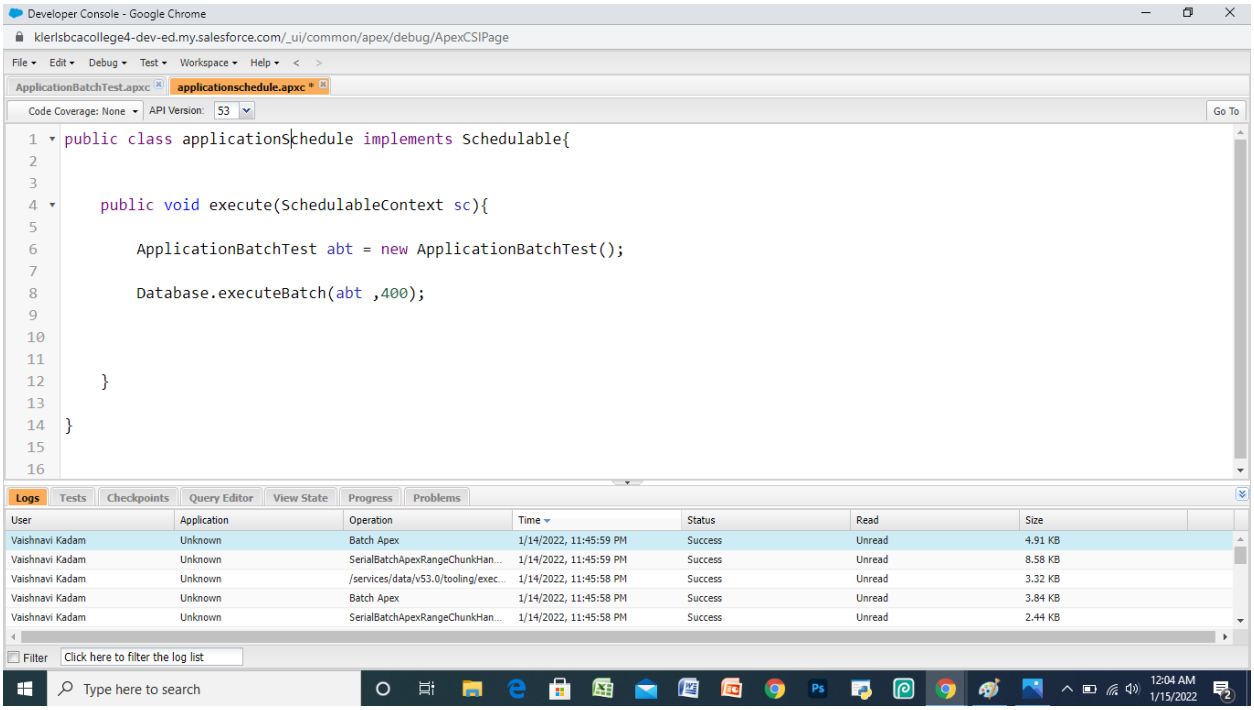
> SOSL: salesforce object search language
> collection
> apex
  two types of apex classes
      1. sync
      2. async
types of async apex:
  1. future method
  2. batch class
  3. queue able class
  4. scheduler class

DAY 6:

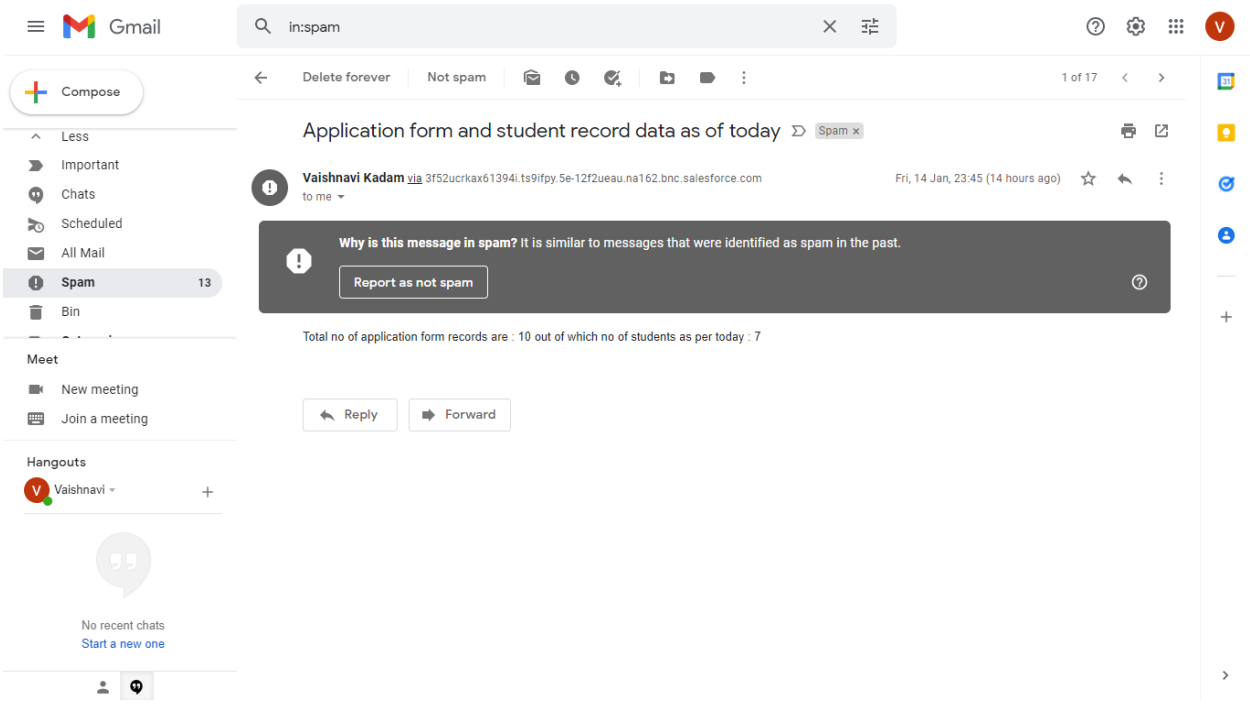
> Create a batch apex for application form



> Create a scheduler class



> email I received



DAY 7:

1. **Apex Trigger**
   > Two types of triggers
   Before trigger and After trigger
   > Operations performed :- insert ,update ,delete ,undelete
2. Trigger context variables
   > trigger.new, trigger.old ,trigger.new map ,trigger.old map.

- Learned about how to delete trigger and use of custom label in trigger.
- Performed real time scenario : which do not allow to delete application form record as it has student record associated with it.
- **Custom label** : Where we store some static data/text.

3. Best practices for Apex and Test classes
   > Bulkification :whatever code we write should be capable of handling everything.
   > Should have collection variable whenever we write class,trigger.
   > Never write DML statements inside for loop
   > If you want to add DML statements than use list, map it will not hit any governor limits.
   > Can use Multiple for() loop but cannot use nested for loop

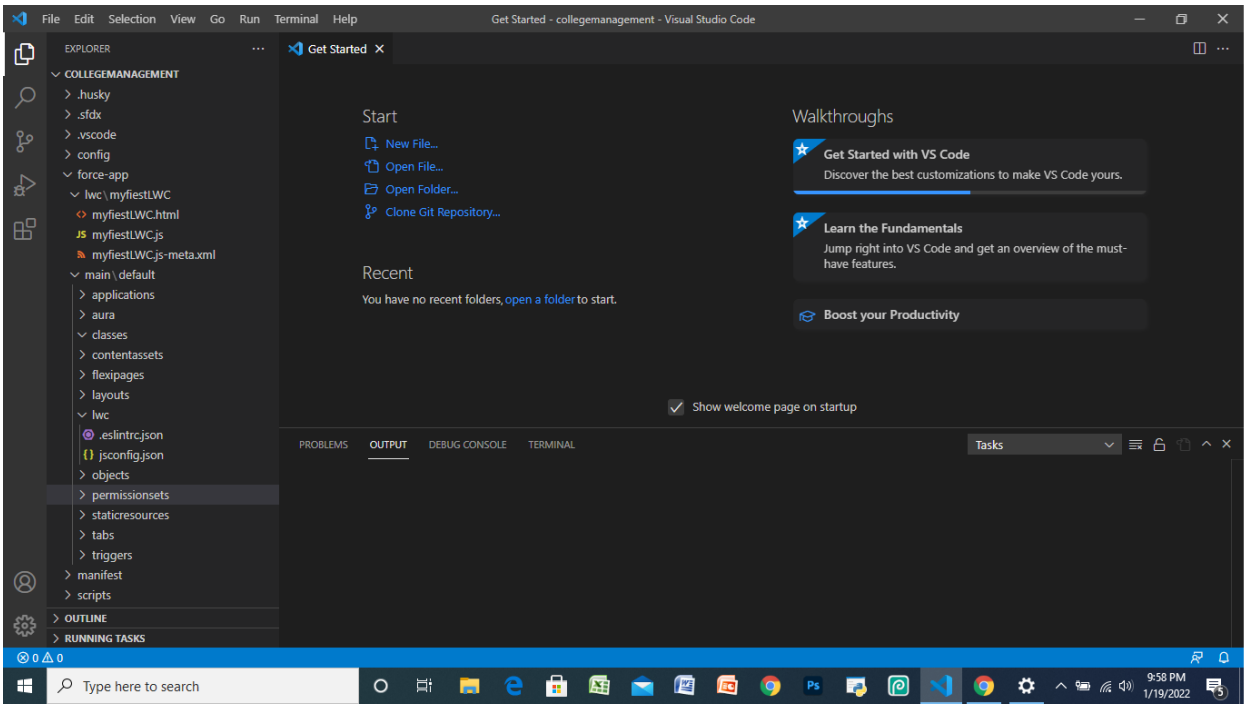
4. Test class: it is automate script for a developer to test his/her logic
   - trigger minimal coverage =0%/1%
   - apex minimal coverage should be more than 75%
5. - @istest
- @testup
- @test.start test();
- @test.stop test();
6. System assertEquals(actual,expected);

DAY 8:

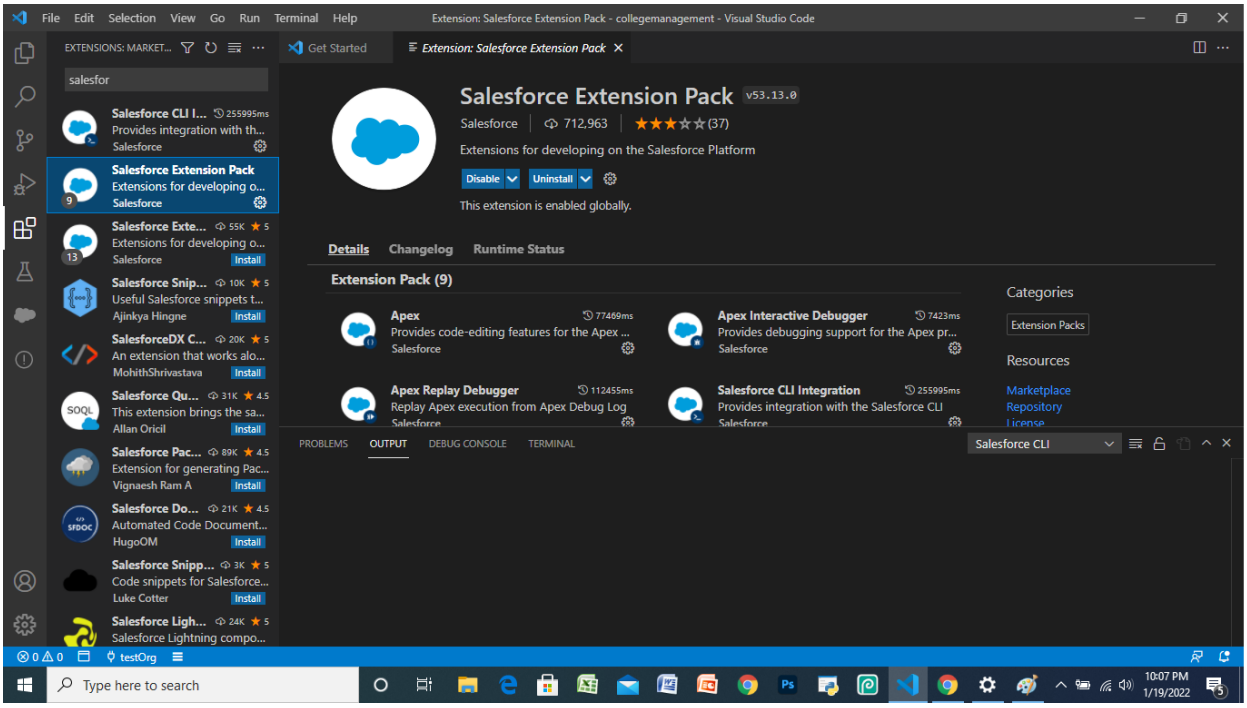
Introduction to LWC (lightning web component)

> What is LWC:It is programming model to develop salesforce lightning components.
> Why LWC
> Benefits of LWC
> Web stack transformation
> LWC file contains main 3 files
  - html ,javascript(js),meta-xml and one out of the box css file.
> Introduction to javascript
  -js functions

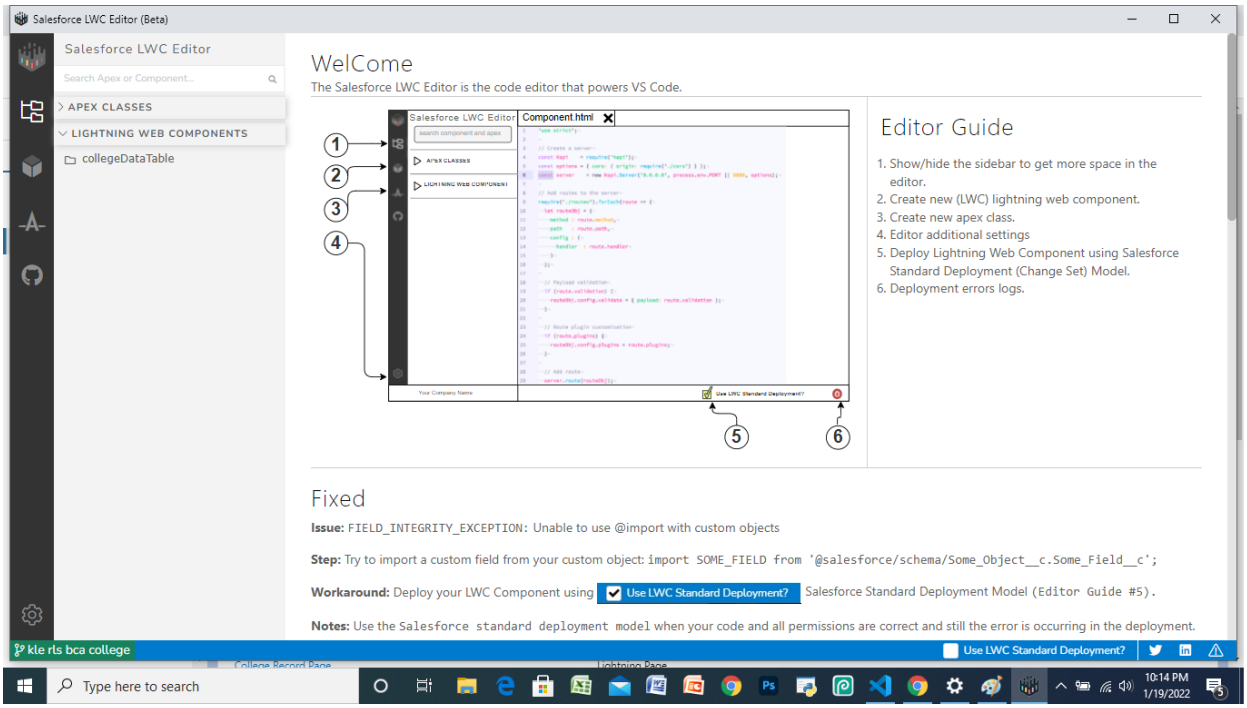
> Installation of **vs.code**



> In vs.code download **Salesforce extension pack**



> Installation of **Salesforce LWC editor**



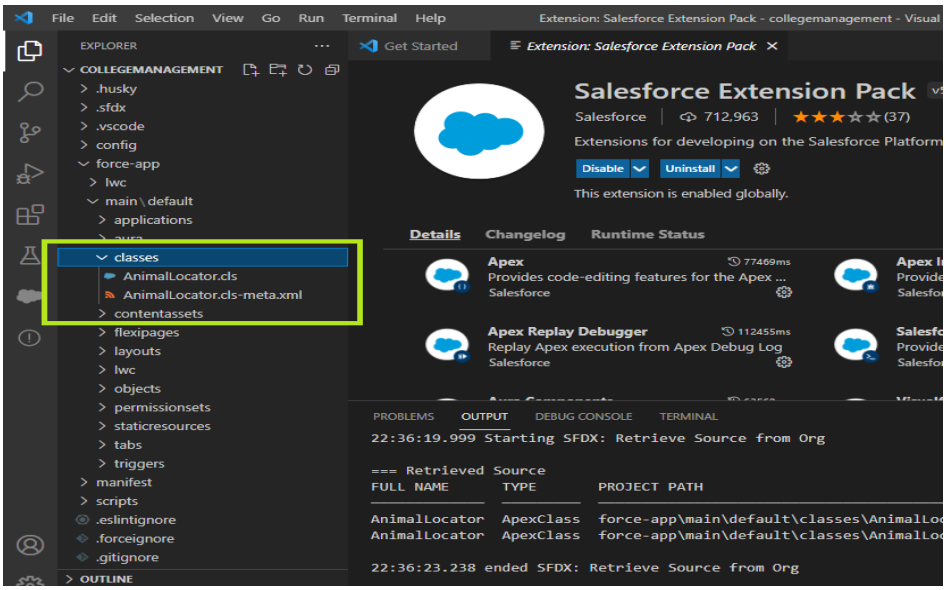
> Worked with date time and javascript.

DAY 9:

> Installed **Salesforce CLI**

> Create Lightning web component

> learned how to deploy and retrieve sources in salesforce org



> Map and set in javascript

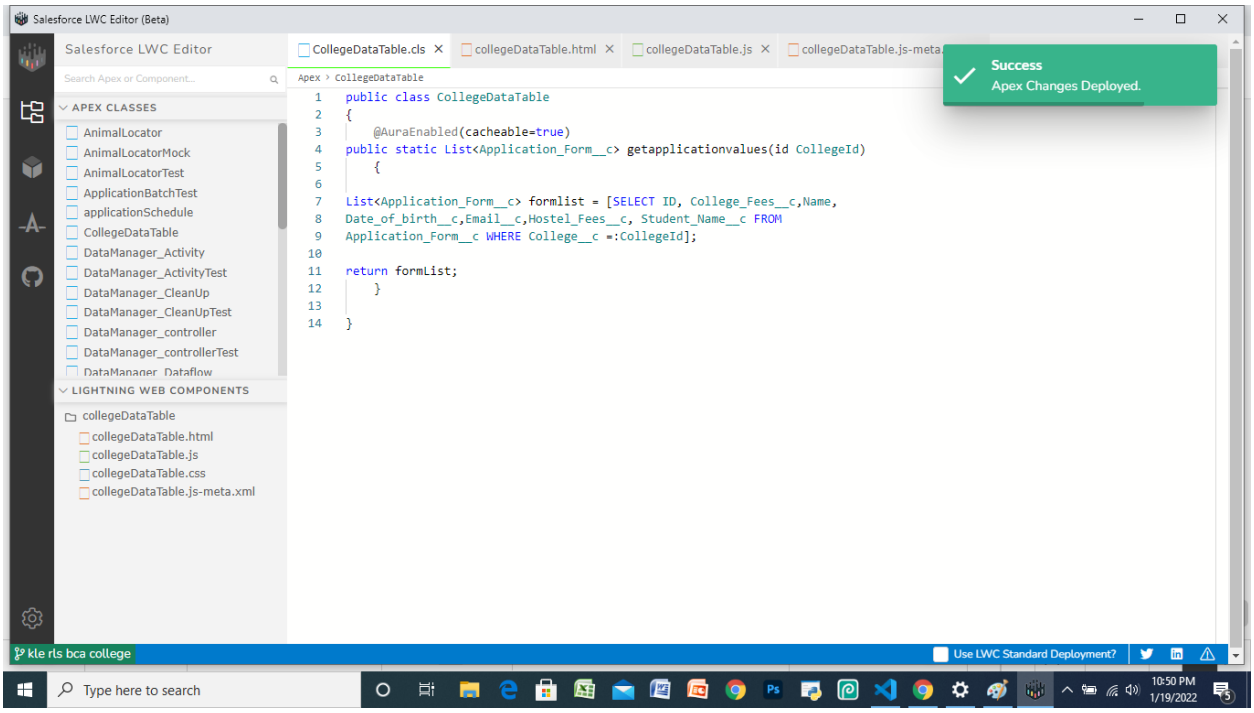
> Map :it stores data in terms of key and value.

> set : set of values without key and it only contains unique values.
> map and set functions.
> Operators in js
> Difference between ==and ===
> Strings in javascript
> Objects in javascript
> Functions in javascript
> Arrow function ,console statements.
> Example on LWC component.

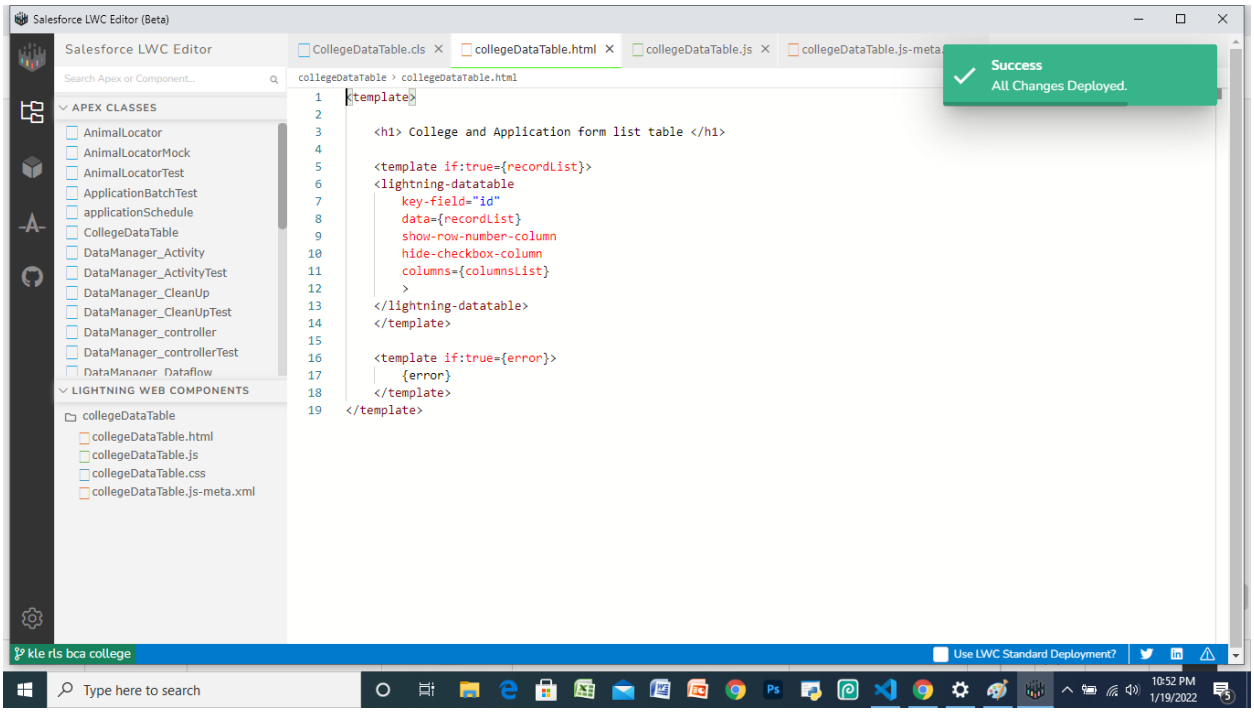
DAY 10:

Lightning web component

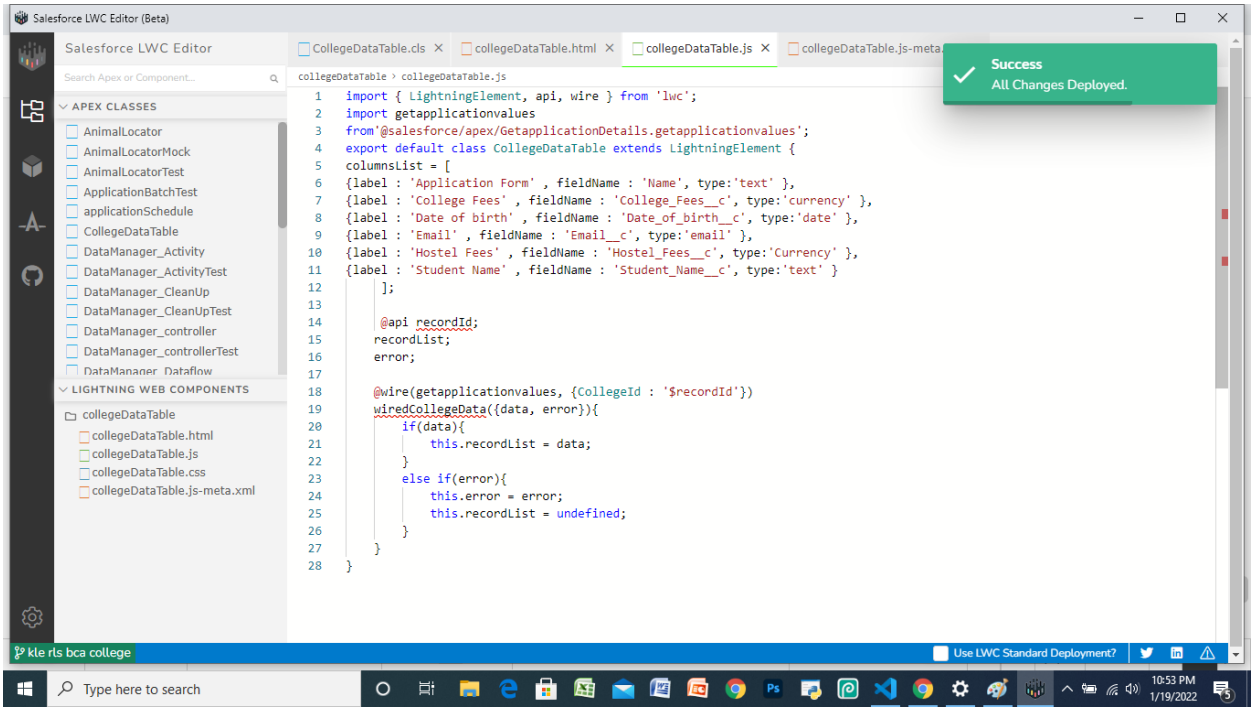
> Create College data table component (Apex class)



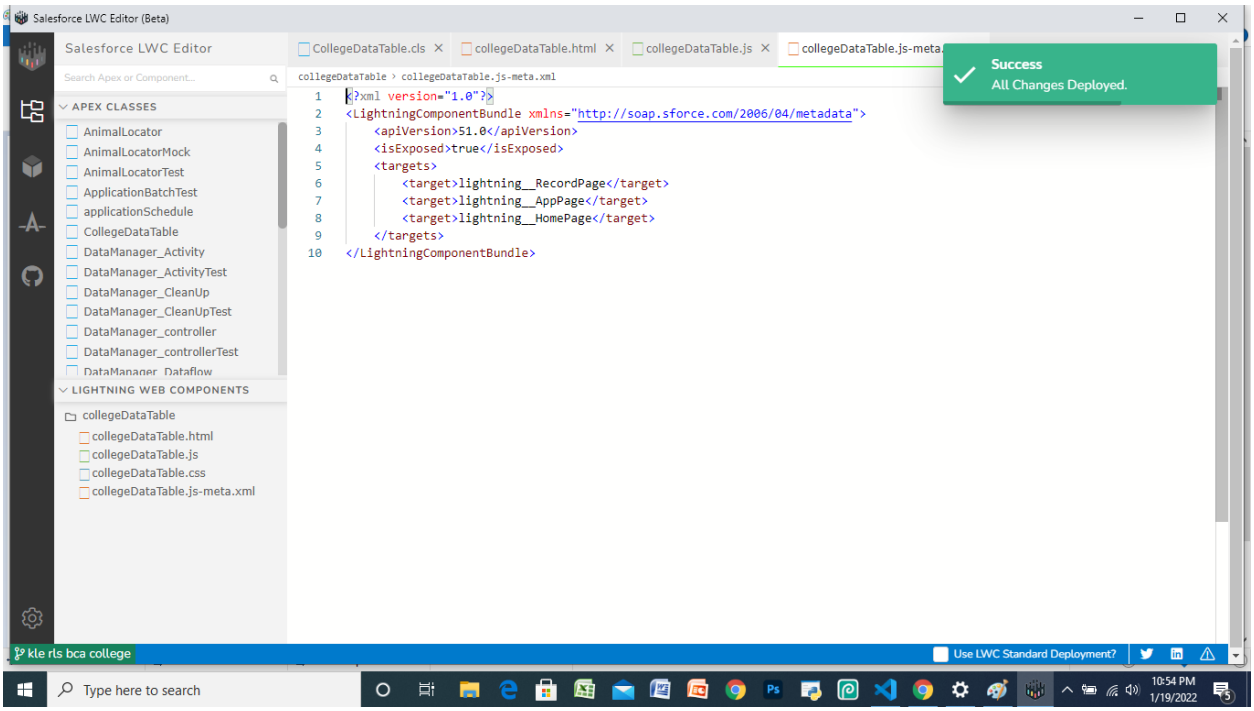
> Create College data table (html file)



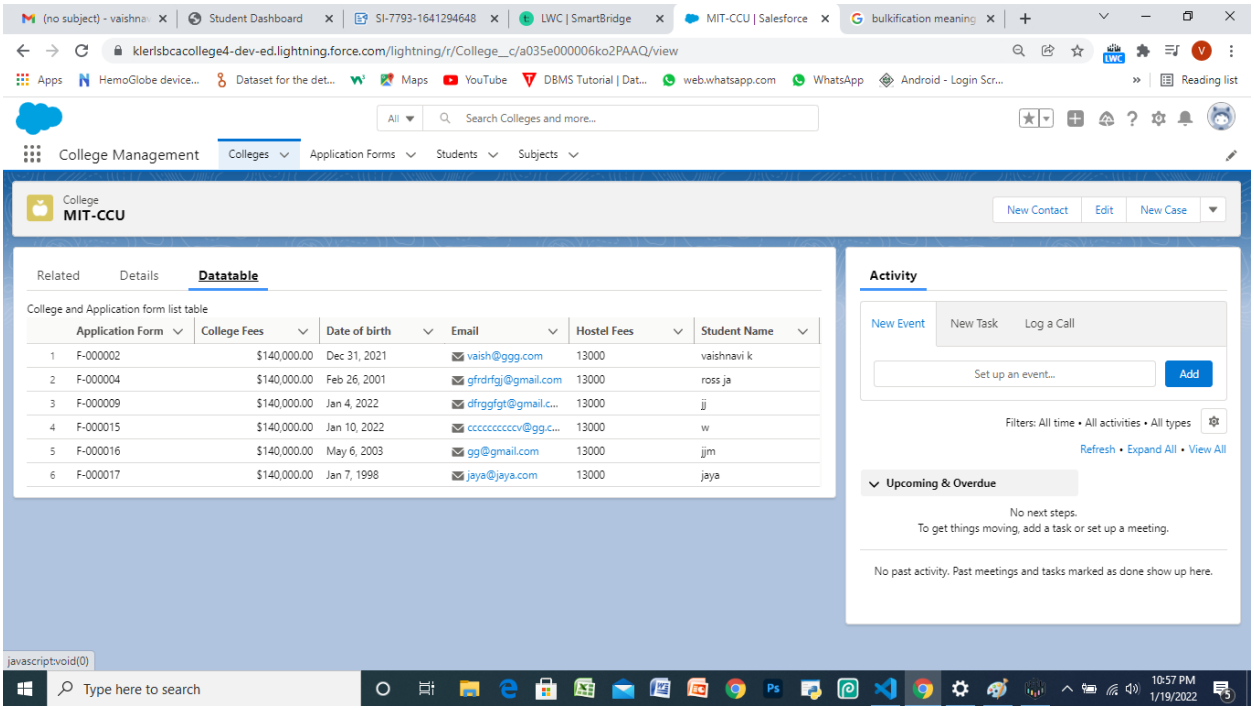
> Create College data table (js file)



>Create College data table (meta-xml file)



> Output for College data table



> Communication between parent to child and child to parent

DAY 11:

Life Cycle Hooks in LWC

> Constructor(), Connectedcallback(),
  - constructor: fires when component instance is created.
  - flows from parents to child component.
  - structure of constructor().
> render(), rendercallback()
> disconnectedcallback(), errorcallback()

> Toast messages
  Indicates/inform user that they are writing something wrong
> Four types of Toast messeges
 - Success (in green colour)
 - Warning (in orange/yellow colour)
 - info (in grey colour)
 - error (in red colour)
> sample examples on toast messeges

> Doubt clearing session