A Project Report on

**********Implementing CRM for result Tracking of A Candidate with internal Marks-(Admin)**********

by

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(Approved by AICTE | NAAC Accreditation with 'A' Grade | Accredited by NBA (ECE, CSE, EEE, CE) | Permanently Affiliated to JNTUA)

ABSTRACT

The objective of image fusion for medical images is to combine multiple images acquired from different sources into a single image suitable for improved diagnosis. Most of the state-of-the-art image fusing techniques are based on non-fuzzy sets, and the fused image so obtained lags with complementary information. Fuzzy sets are strong-minded to be more appropriate for medical image processing as more hesitations are considered compared with non-fuzzy sets. In this project, a procedure for efficiently fusing multimodal medical images is presented. In the proposed method, images are initially converted into intuitionistic fuzzy images (IFIs), and a new objective function called intuitionistic fuzzy entropy (IFE) is employed to obtain the optimum value of the parameter in the membership and non-membership functions. Next, the IFIs are compared using fitness function, contrast visibility (CV). Then, teaching learning based optimization (TLBO) is introduced to optimize fusion coefficients, which will be changed under teaching phase and learner phase of TLBO, so that the weighted coefficients can be automatically adjusted according to fitness function. Finally, the fused image is obtained using optimal coefficients. Simulations on several pairs of multimodal medical images are performed and compared with the existing fusion methods. The superiority of the proposed method is presented and is justified. Fused image quality is also verified with various quality metrics, such as feature mutual information (FMI), spatial frequency (SF), entropy, edge-based image fusion ($Q^{AB/F}$), modified spatial frequency (MSF) and computation time (CT).

Contents

Abstract iv

Contents v

List of Figures and Tables vi

Implementing CRM for Result Tracking of A candidate With Internal Marks-(ADMIN)

CHAPTER 1 Create salesforce Org 7

1.1 create Developer Org

1.2 Account Activation

CHAPTER 2 Object 12

2.1 Creation of semester object for candidate internal Result card

CHAPTER 3 What is A Tab? 14

3.1 creation of semester Tab for candidate internal Result card

CHAPTER 4 LIGHTING APP 15

4.1 create the candidate Internal Result card App

CHAPTER 5 FIELDS AND RELATIONSHIP 17

5.1 creation of Text Field on "Lecturer Details" & look up Field for The "Candidate" Object.

5.2 creation of Auto Number Field on Course Details Object & Formula Field course Details object.

CHAPTER 6 Users 24

6.1 Creating User

CHAPTER 7 User Adoption 26

7.1 Create Record (course Details)

7.2 View Record (course Details)

7.3 Delete Record (course Details)

CHAPTER 8 What Are Reports? 29

8.1 Create Report

8.2 View Report

CHAPTER 9 Dashboard **34**

9.1 Create Dashboard

9.2 View Dashboard

CHAPTER 10 Experimental Results **37**

CHAPTER 11 Applications/Advantages **39**

CHAPTER 12 Conclusions & Future Scope **39**

LIST OF FIGURES AND TABLES

Fig. 1.1 creating Developer Org 1

Fig. 2.1 Account Activation 2

Fig. 2.2 Account Activation 3

Fig. 2.3 Account Activation 4

Fig. 3.1 Creation of semester object 5

Fig. 3.2 Creation of semester object 6

Fig. 3.3 Creation of semester object 7

Fig. 4.1 Creation of semester Tab 8

Fig. 4.2 Creation of semester Tab 9

Fig. 4.3 Creation of semester Tab 10

Fig. 5.1 Creation of candidate Internal Result Card App 11

Fig. 5.2 Creation of candidate Internal Result Card App 12

Fig. 5.3 Creation of candidate Internal Result Card App 13

Fig. 6.1 Creation of Text Field 14

Fig. 6.2 Creation of Text Field 15

Fig. 6.3 Creation of Auto Number Field on Candidate Object 16

Fig. 6.2 Creation of Auto Number Field on Candidate Object 17

Fig. 6.3 Creation of Auto Number Field on Candidate Object 18

Fig. 7.1 Creating A User 19

Fig. 7.2 Creating A User 20

Fig. 8.1 Create Record 21

Fig. 8.2 Create Record 22

Fig. 9.1 View Record 23

Fig. 9.2 View Record 24

Fig. 10.1 Delete Record 25

Fig. 10.2 Delete Record 26

Fig. 11.1 Create Report 27

Fig. 11.2 Create Report 28

Fig. 11.3 Create Report 29

Fig. 12.1 View Report 30

Fig. 12.2 View Report 30

Fig. 13.1 Create Dashboard 31
Fig. 13.2 Create Dashboard 32
Fig. 13.3 Create Dashboard 33
Fig. 14 View Dashboard 33

CHAPTER 1 CREATING SALESFORCE ORG

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:

https://youtu.be/r9EX3lGde5k

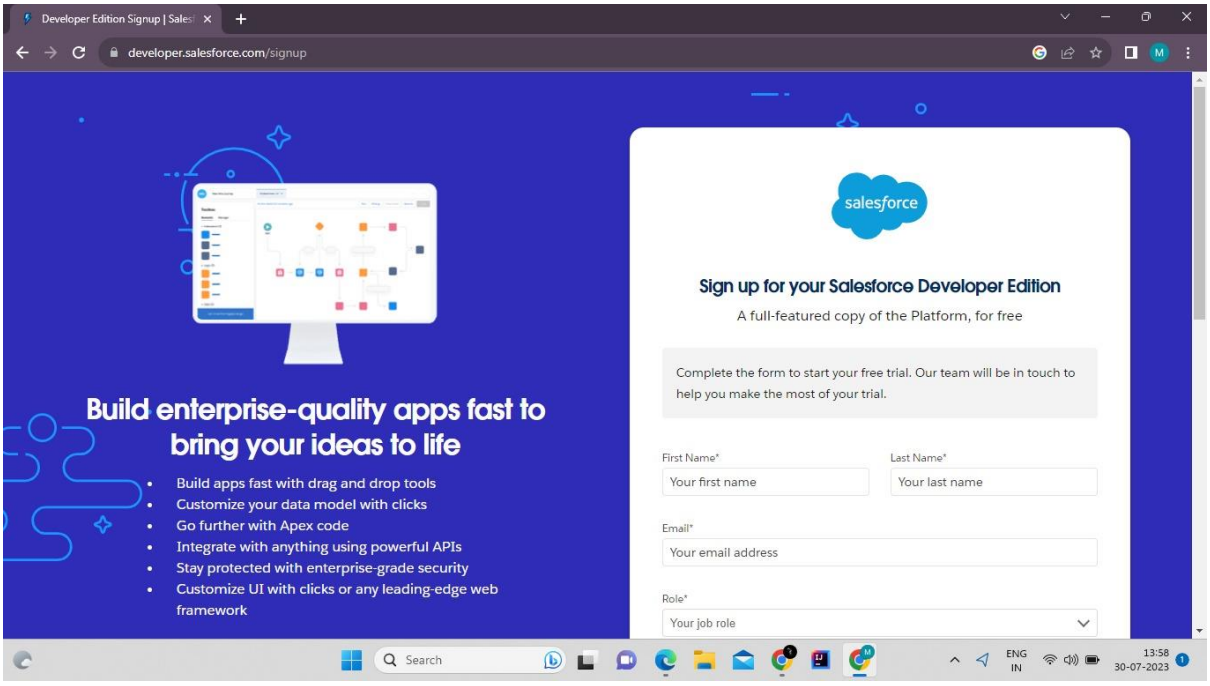
1.1 Creating Developer Org

Creating a developer org in salesforce.

1. Go to developers.salesforce.com/Signup
2. Click on sign up.
3. On the sign-up form, enter the following details:
    1. First name & Last name
    2. Email
    3. Role: Developer
    4. Company: College Name
    5. County: India
    6. Postal Code: pin code
    7. Username: should be a combination of your name and company

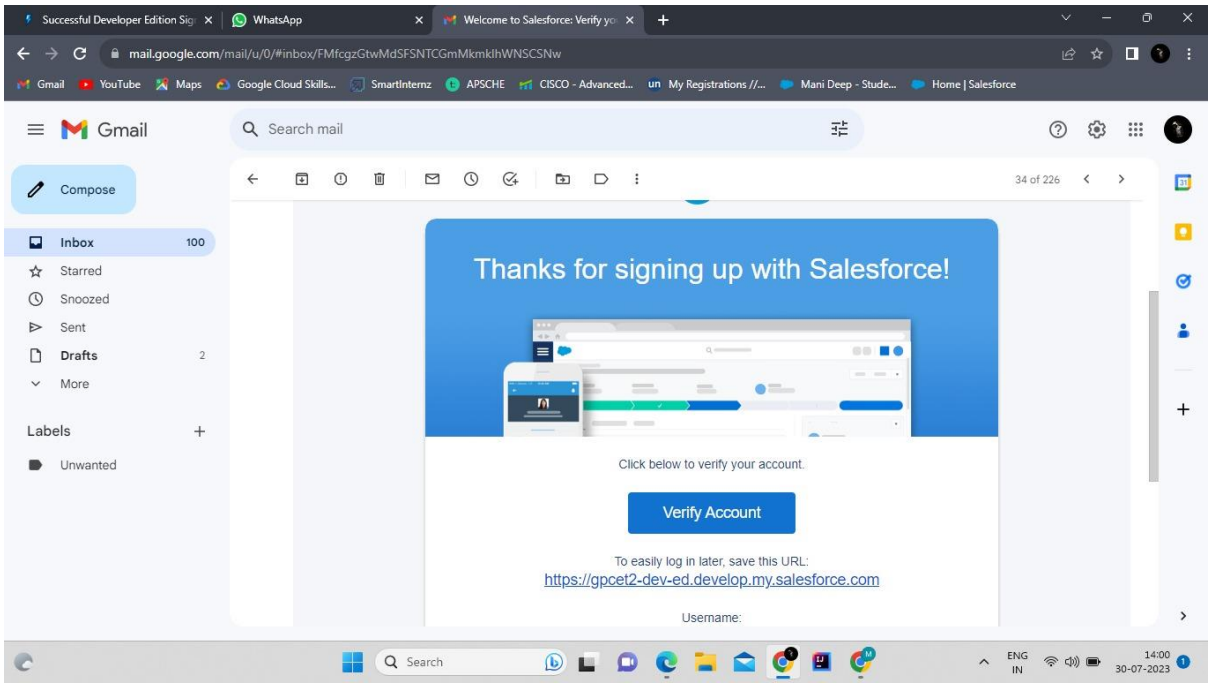
This need not be an actual email id, you can give anything in the format: username@organization.com

Click on sign up after filling these.

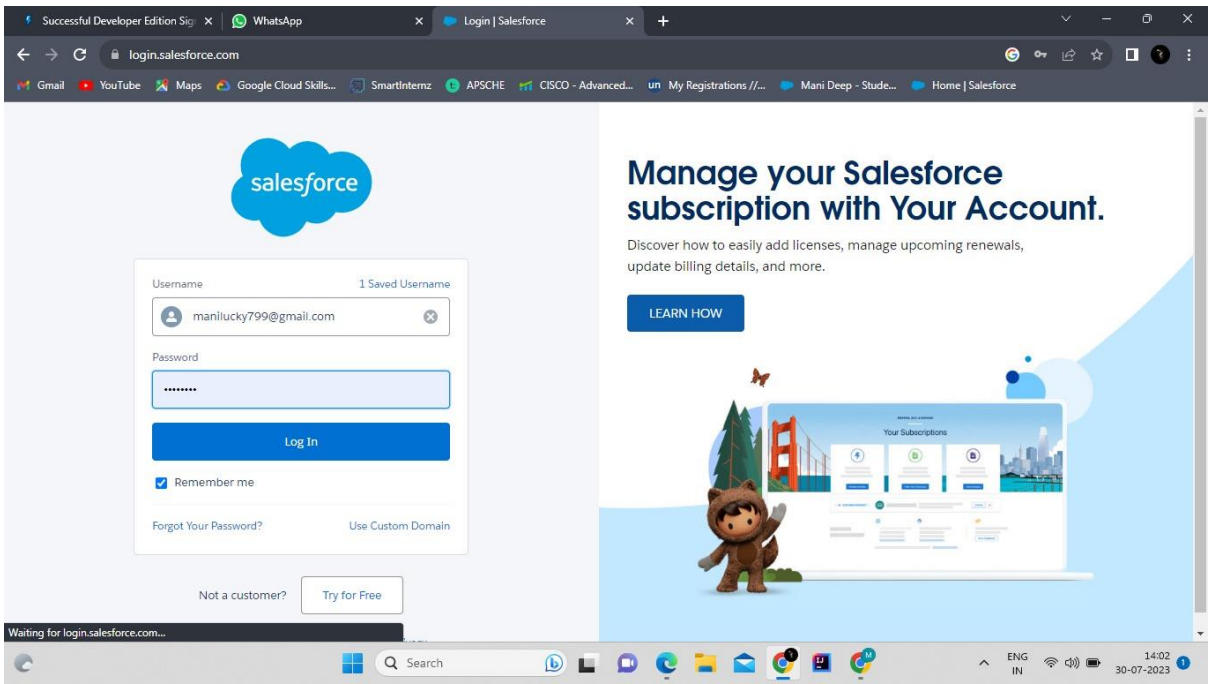


1.2 Account Activation

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



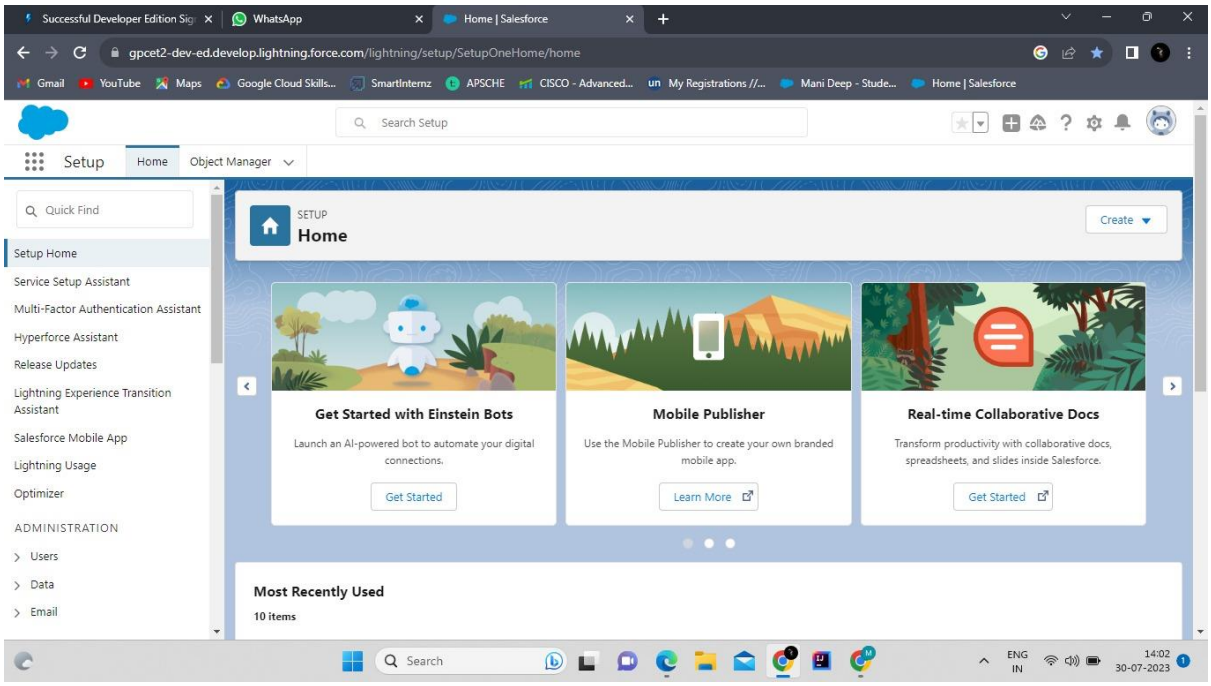
Login to Your Salesforce Account
1. Go to salesforce.com and click on login.
2. Enter the username and password that you just created.
3. After login this is the home page which you will see.



Salesforce Login

https://login.salesforce.com

Login to Your Salesforce Account
1. Go to salesforce.com and click on login.
2. Enter the username and password that you just created.
3. After login this is the home page which you will see.



CHAPTER 2 OBJECT INTRODUCTION

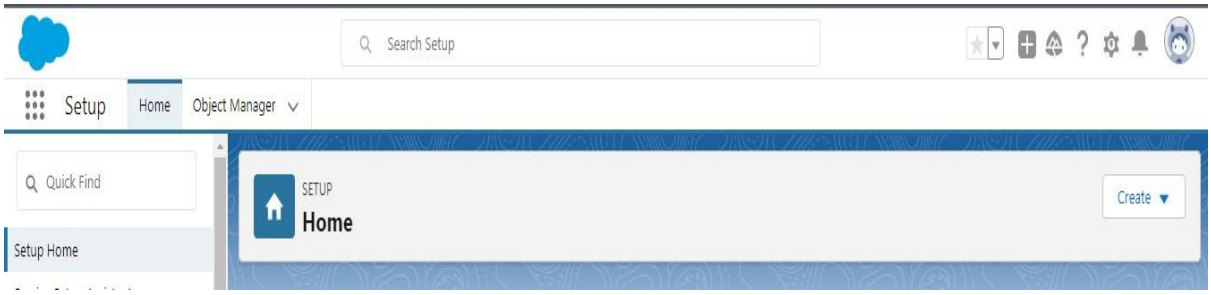
Salesforce objects are database tables that permit you to store data that is specific to an organization. Salesforce objects are of two types:

1. Standard Objects: Standard objects are the kind of objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.
2. 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.

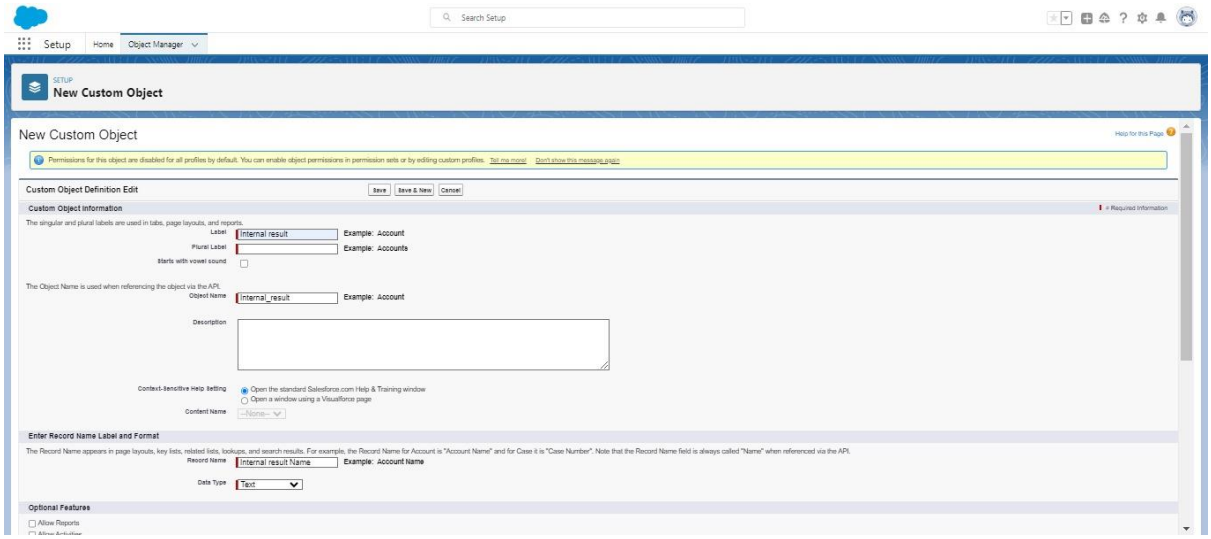
2.1 Creation Of Semester Object For Candidate Internal Result Card

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 Drop down click on that and select Custom Object.
4. On the Custom Object Definition page, create the object as follows:
5. Label: Semester
6. Plural Label: Semesters
7. Record Name: Semester Name
8. Check the Allow Reports
9. Check the Allow Search
10.Click Save.

In the same way create **4** more objects as **Candidate**, **Course Details**, **Lecturer Details** and **Internal results**.



Search Setup
Setup
Home
Object Manager
SETUP
Object Manager
51+ Items, Sorted by Label
Quick Find
Schema Builder
Create


Search Setup
Setup
Home
Object Manager
SETUP
New Custom Object
New Custom Object
Custom Object Definition Edit
Save
Save & New
Cancel
Custom Object Information
Label
Internal result
Example: Account
Plural Label
Example: Accounts
Starts with vowel sound
Object Name
Internal_result
Example: Account
Description
Context-Sensitive Help Setting
Content Name
Enter Record Name Label and Format
Record Name
Internal result Name
Example: Account Name
Data Type
Text
Optional Features

CHAPTER 3 WHAT IS A TAB?

INTRODUCTION

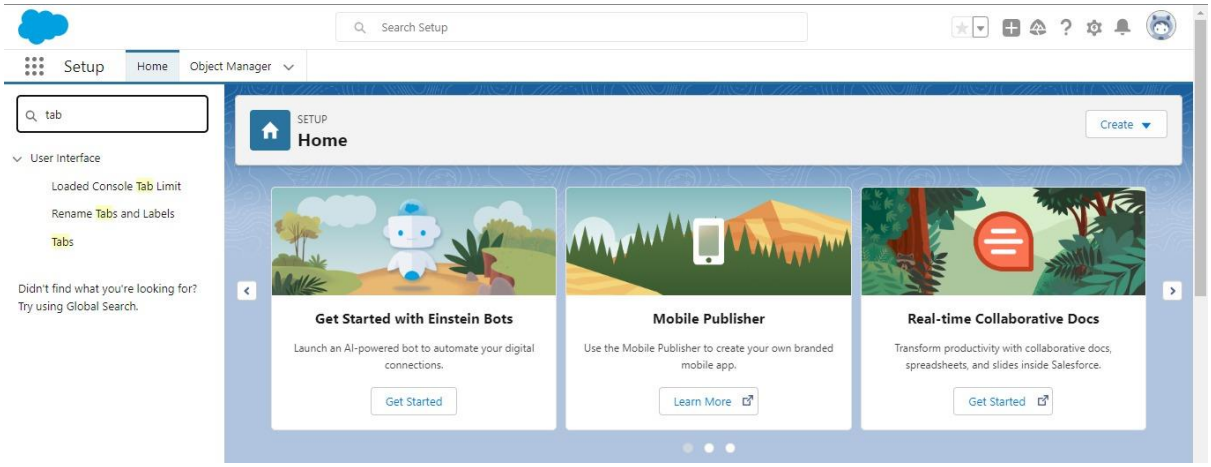
Tabs in Salesforce help users view the information at a glance. It displays the data of objects and other web content in the application.
There are mainly 4 types of tabs:
(A) Standard Object Tabs: Standard object tabs display data related to standard objects

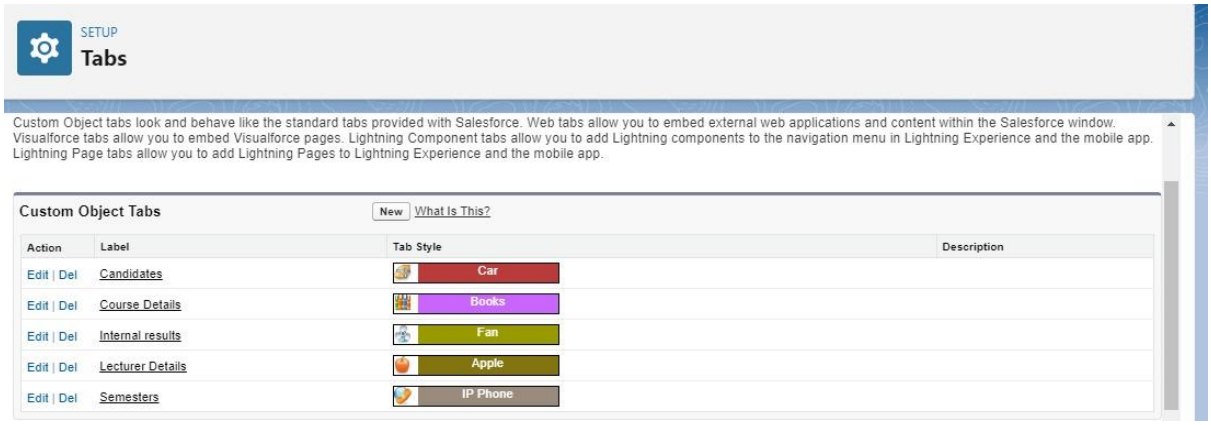
(B) Custom Object Tabs: Custom object tabs displays data related to custom objects.

(C) Web Tabs: Web Tabs display any external Web-based application or Web page in a Salesforce tabs.

(D) Visualforce Tabs: Visualforce Tabs display data from a Visualforce Page.

3.1 Creation Of Semester Tab For Candidate Internal Result Card





SETUP
Tabs
New Custom Object Tab
Help for this Page
Step 1. Enter the Details
Step 1 of 3
Choose the custom object for this new custom tab. Fill in other details.
Select an existing custom object or create a new custom object now.
Object
--None--
Tab Style
(Optional) Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.
Splash Page Custom Link
--None--
Enter a short description.
Description

CHAPTER 4 LIGHTNING APP

INTRODUCTION

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. There are two types of app –

1. Standard 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.

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

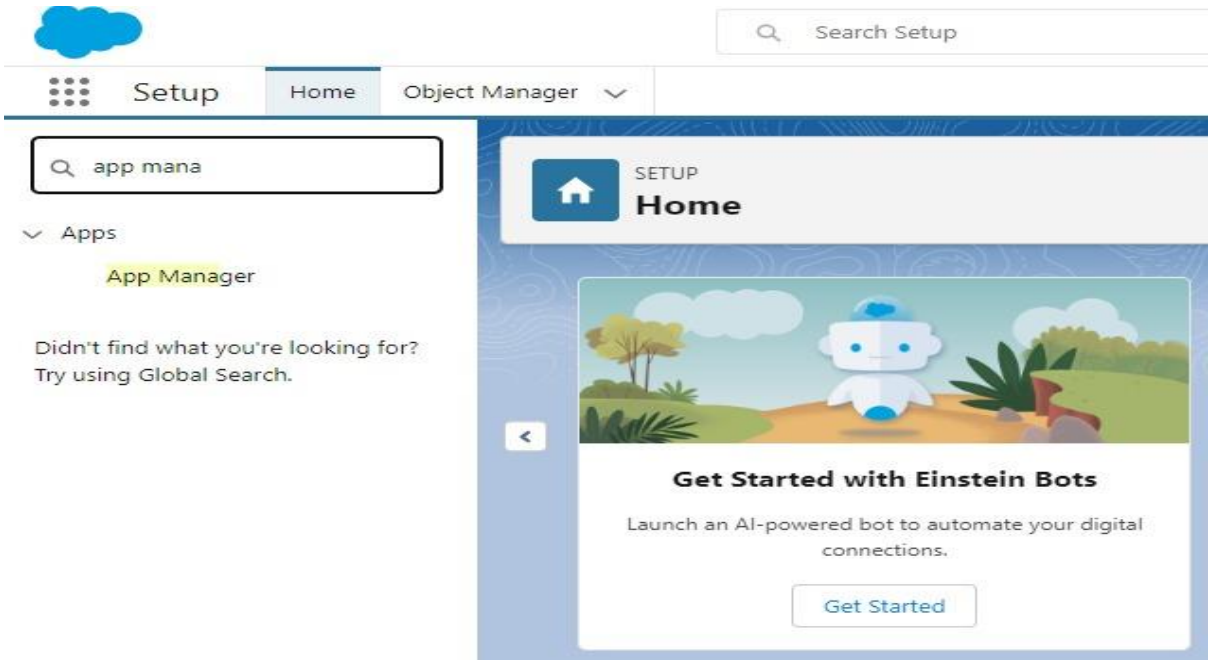
2. Custom Apps: Custom apps are created according to need of user. Custom Apps are made by using standard and custom tabs together.

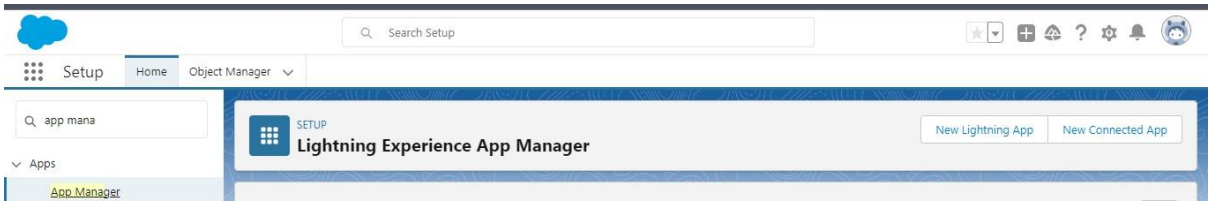
Note: Logos for Custom Apps can be changed.

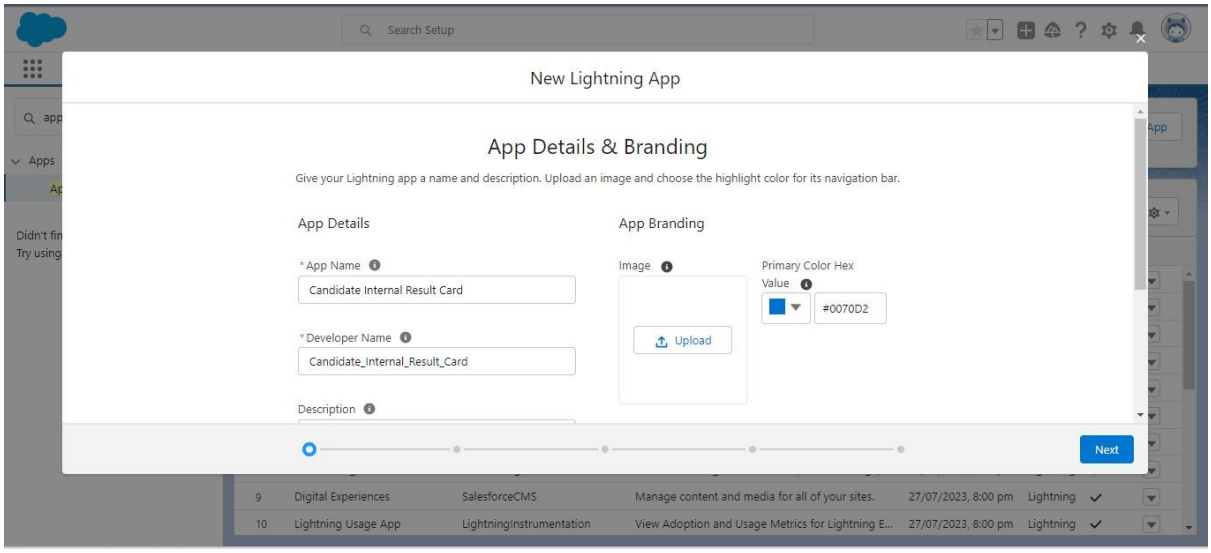
4.1 Create The Candidate Internal Result Card App

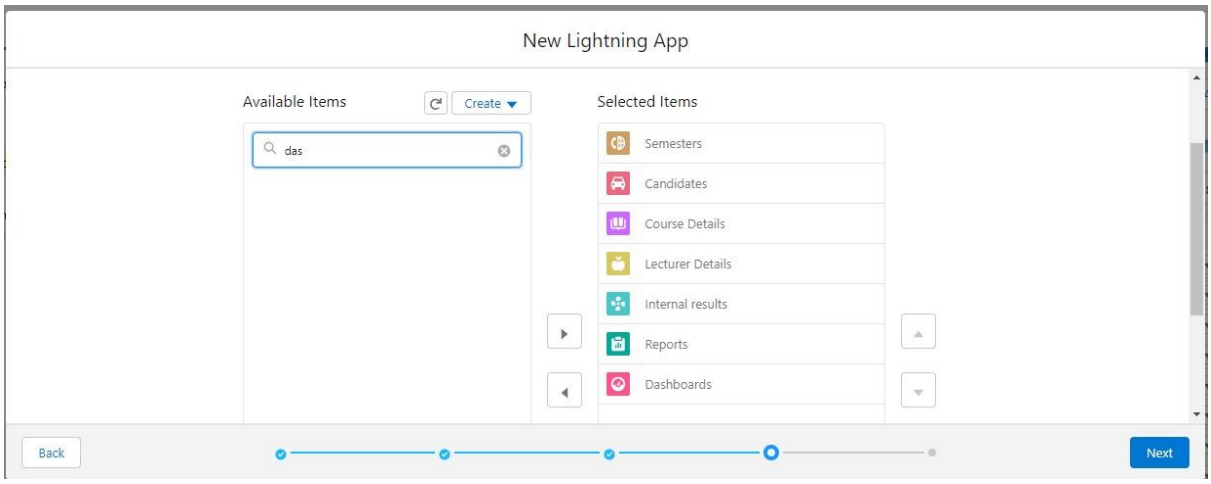
1. From Setup, enter App Manager in the Quick Find and select App Manager.
2. Click New Lightning App.
3. Enter **Candidate Internal Result Card** as the App Name, then click next
4. Under App Options, leave the default selections and click next.
5. Under Utility Items, leave as is and click Next.
6. From Available Items, select **Semester**, **Candidate**, **Course Details**, **Lecturer Details**, **Internal results**, **Reports**, and **Dashboards** and move them to Selected Items.
7. Click Next.

From Available Profiles, select System Administrator and move it to Selected Profiles. Click Save & Finish.




Search Setup
Setup
Home
Object Manager
app mana
Apps
App Manager
SETUP
Lightning Experience App Manager
New Lightning App
New Connected App


Search Setup
New Lightning App
App Details & Branding
Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.
App Details
App Branding
*App Name
Candidate Internal Result Card
*Developer Name
Candidate_Internal_Result_Card
Description
Image
Upload
Primary Color Hex Value
#0070D2
Next
9 Digital Experiences SalesforceCMS Manage content and media for all of your sites. 27/07/2023, 8:00 pm Lightning
10 Lightning Usage App LightningInstrumentation View Adoption and Usage Metrics for Lightning E... 27/07/2023, 8:00 pm Lightning


New Lightning App
Available Items
Create
das
Selected Items
Semesters
Candidates
Course Details
Lecturer Details
Internal results
Reports
Dashboards
Back
Next

CHAPTER 5 FIELDS AND RELATIONSHIP

INTRODUCTION

Fields - Fields store data values that are required for a particular object in a record.

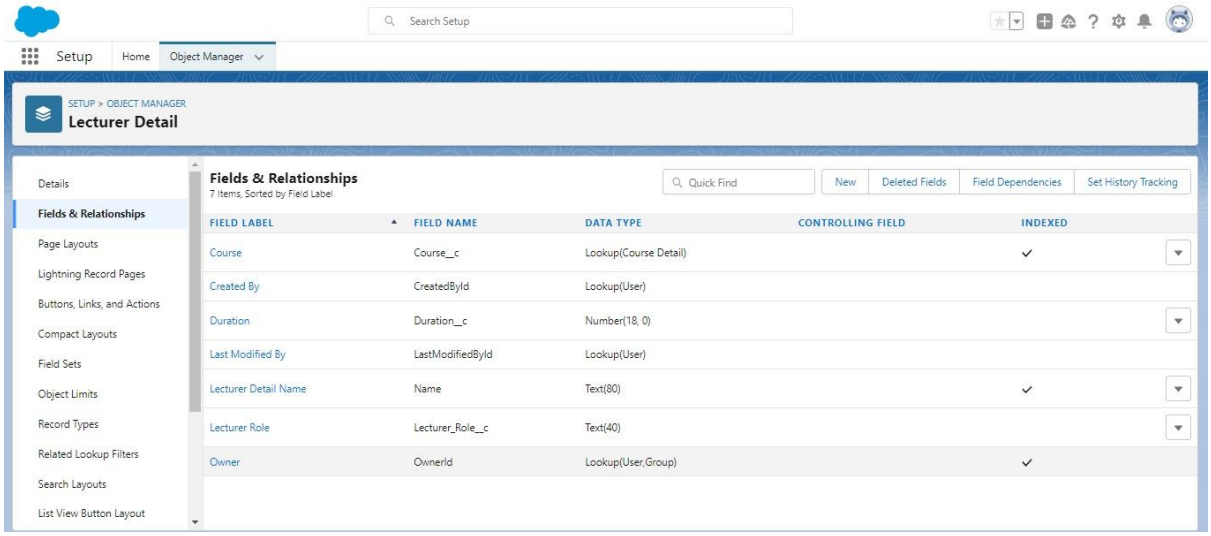
An object relationship in Salesforce is a two-way association between two objects. Relationships are created by creating custom relationship fields on an object. This is done so that when users view records, they can also see and access related data.

Object Name	Field Name	Data type
Semester	Semester Name	Text(Standard field)
	Course	Lookup(Course Details)
Candidate	Candidate Name	Text(Standard field)
	Candidate Roll Number	Auto Number
	Semester Name	Lookup(Semester)
Lecturer Details	Lecturer Name	Text(Standard field)
	Lecturer Role	Text
	Course	Lookup(Course)
Course Details	Course Name	Text(Standard field)
	Duration (Years)	Number

Internal results	Candidate	Lookup (candidate)
	Candidate Roll Number	Formula
	Course	Lookup(Course)
	Marks	Number

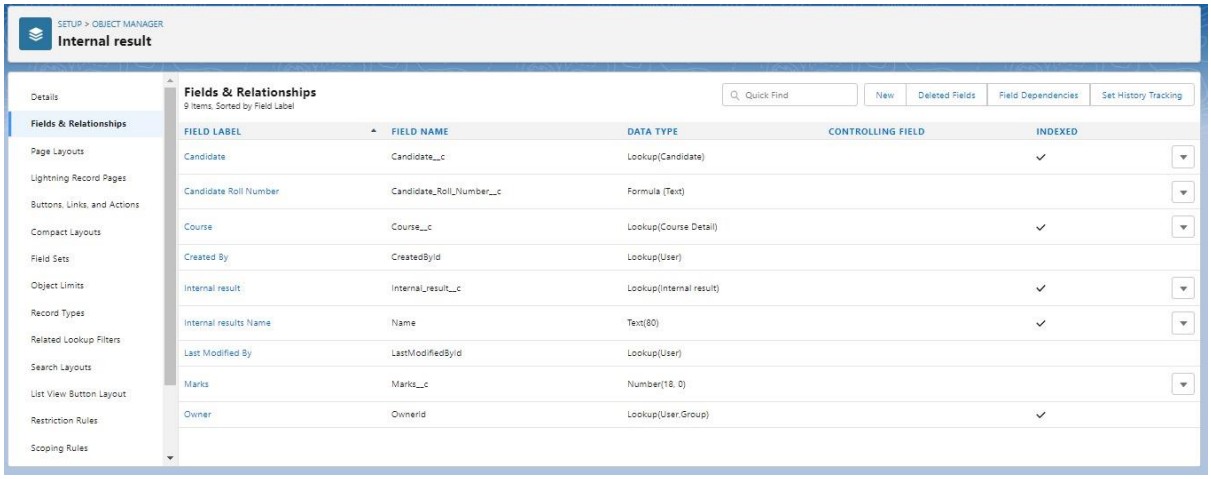
5.1 Creation Of Text Field On "Lecturer Details" & Look Up Field For The “Candidate” Object

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 Lecturer Details
4. Select Fields & Relationships from the left navigation
5. Click New
6. Select the Text as the Data Type, click next.
7. For Field Label, enter Lecturer Role
8. Enter Length 40
9. Click Next, Next, then Save & New.



Now Let’s create a Lookup field on candidate object

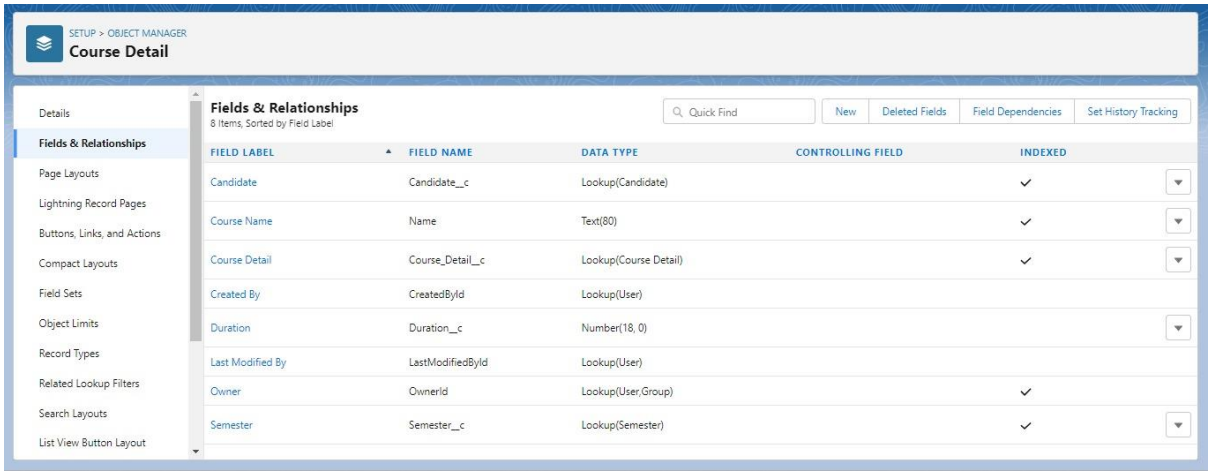
1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select candidate.
4. Select Fields & Relationships from the left navigation
5. Click New
6. Select the lookup as the Data Type, then click Next.
7. In related select Semester
8. For Field Label Semester Name, enter.
9. Click Next, Next, then Save & New.



Note- Similarly create all lookup fields on their respective objects.

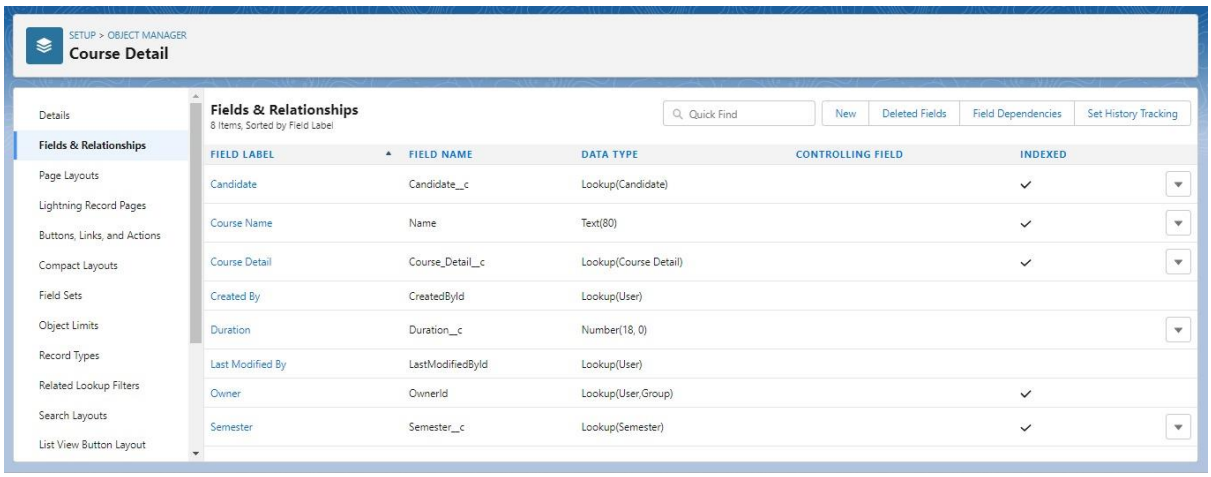
5.2 Creation Of Auto Number Field On Candidate Object, Number Field On Course Details Object & Formula Field Course Details Object

Let's create a Number field on Course Details object
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 Course Detail.
4. Select Fields & Relationships from the left navigation
4. Click New & select number field, click Next
6. For Field Label Duration, enter.
7. Give Help Text- Enter Course duration value in Years
8. Click Next, Next, then Save & New.



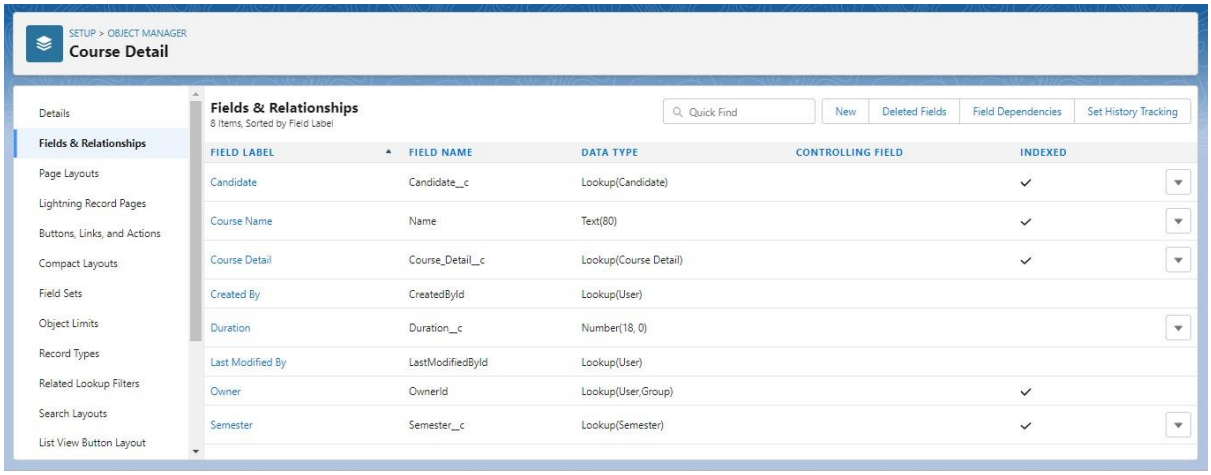
Now Let’s create a Formula field on Internal Results object

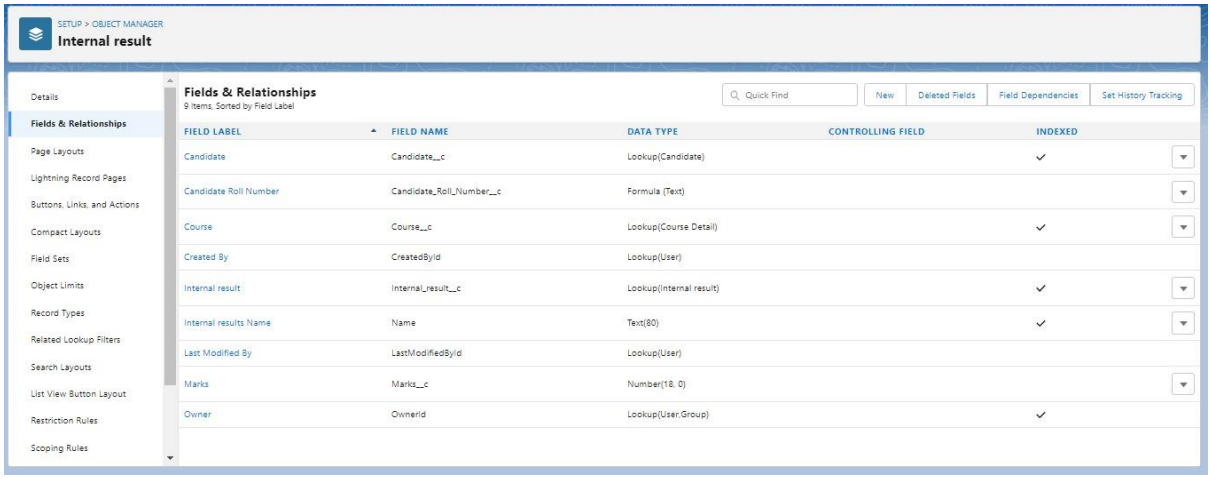
1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select Internal results.
4. Select Fields & Relationships from the left navigation.
5. Click New
6. Select the Formula as the Data Type, then click Next.
7. Give field label Candidate Roll Number
8. Select formula return type text, Click Next
9. Click Insert Field
10. Create and insert formula Candidate r.Candidate_Roll_Number c, and then click Insert.
11. Click Next, Next, then Save.



Now Let’s create an auto number field on Candidate object

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 Candidate.
4. Select Fields & Relationships from the left navigation
5. Click New
6. Select the Auto Number as the Data Type, then click Next.
7. For Field Label Candidate enter Roll Number.
8. Give a display format
9. Click Next, Next, then Save & New.


SETUP > OBJECT MANAGER
Course Detail
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
Fields & Relationships
8 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Candidate
Candidate__c
Lookup(Candidate)
Course Name
Name
Text(80)
Course Detail
Course_Detail__c
Lookup(Course Detail)
Created By
CreatedById
Lookup(User)
Duration
Duration__c
Number(18, 0)
Last Modified By
LastModifiedById
Lookup(User)
Owner
OwnerId
Lookup(User,Group)
Semester
Semester__c
Lookup(Semester)


SETUP > OBJECT MANAGER
Internal result
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
Scoping Rules
Fields & Relationships
9 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Candidate
Candidate__c
Lookup(Candidate)
Candidate Roll Number
Candidate_Roll_Number__c
Formula (Text)
Course
Course__c
Lookup(Course Detail)
Created By
CreatedById
Lookup(User)
Internal result
Internal_result__c
Lookup(Internal result)
Internal results Name
Name
Text(80)
Last Modified By
LastModifiedById
Lookup(User)
Marks
Marks__c
Number(18, 0)
Owner
OwnerId
Lookup(User,Group)

CHAPTER 6 USER

INTRODUCTION

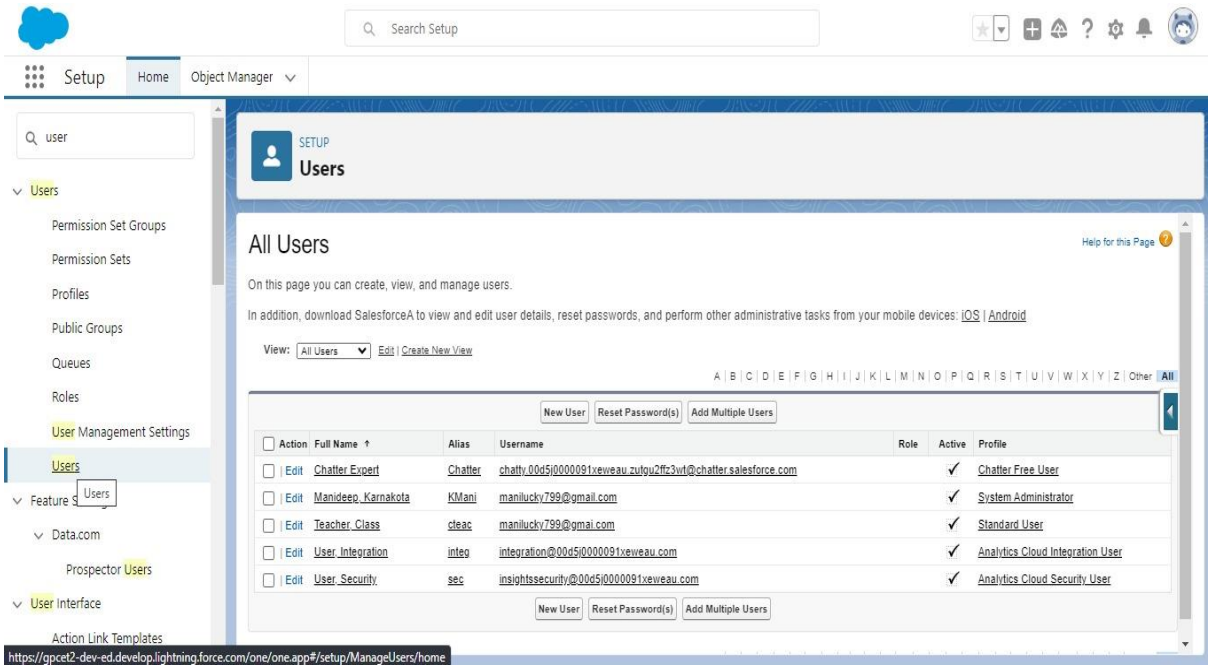
A user is anyone who logs in to Salesforce. Users are employees at your company, such as sales reps, managers, and IT specialists, who need access to the company's records. Every user in Salesforce has a user account.

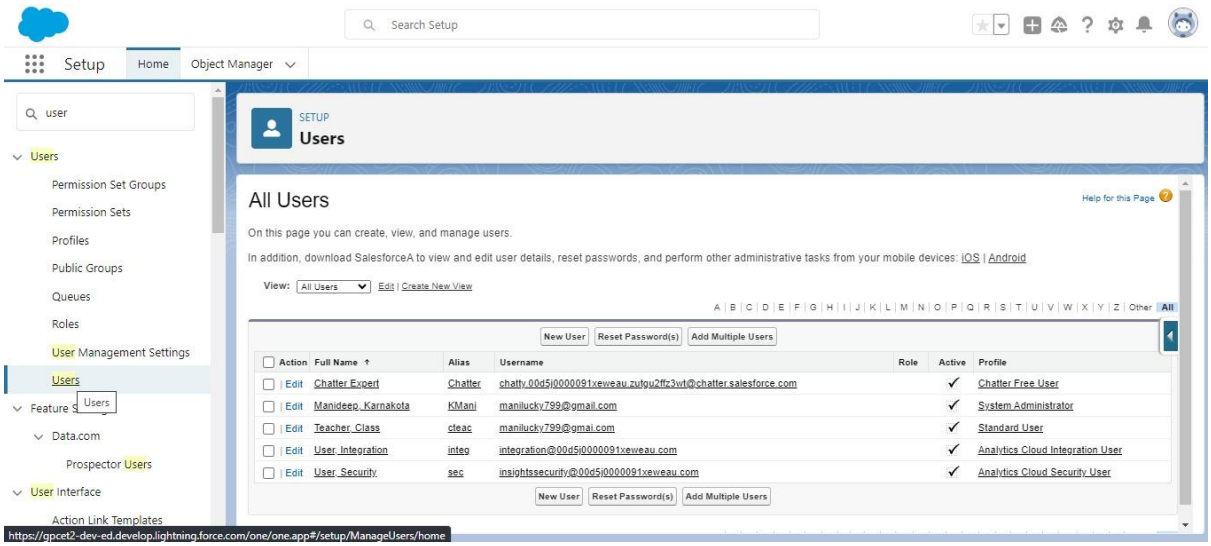
6.1 Creating A User

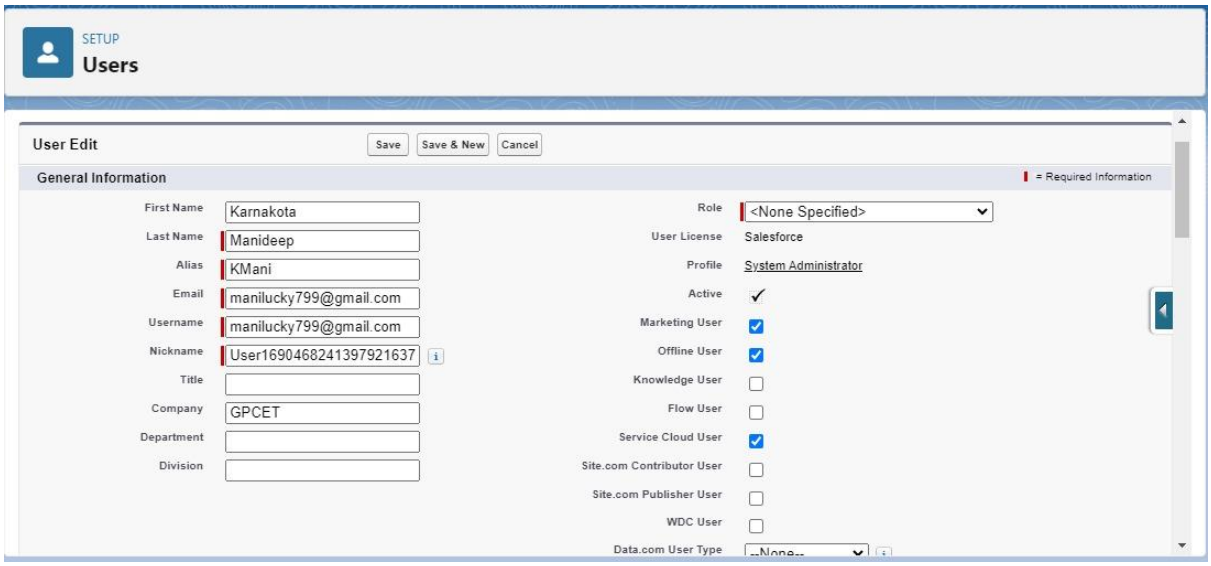
1. From Setup, in the Quick Find box, enter Users.
2. Select Users.
3. Click New User.
4. Enter the First Name, Class, Last Name, Teacher and (Your) email address anda unique username in the form of an email address. By default, the username is the same as the email address.
5. Select a User License as salesforce.

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.

6. Select a profile as Standard user.
7. Check Generate new password and notify the user immediately to have the user's login name and a temporary password emailed to your email.




Search Setup
Setup
Home
Object Manager
user
Users
Permission Set Groups
Permission Sets
Profiles
Public Groups
Queues
Roles
User Management Settings
Users
Feature S
Data.com
Prospector Users
User Interface
Action Link Templates
SETUP
Users
All Users
Help for this Page
On this page you can create, view, and manage users.
In addition, download SalesforceA to view and edit user details, reset passwords, and perform other administrative tasks from your mobile devices: iOS | Android
View: All Users Edit | Create New View
A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Other All
New User
Reset Password(s)
Add Multiple Users
Action
Full Name
Alias
Username
Role
Active
Profile
Edit Chatter Expert Chatter chatty.00d5j0000091xeweau.zufgu2ffz3wt@chatter.salesforce.com Chatter Free User
Edit Manideep, Karnakota KMani manilucky799@gmail.com System Administrator
Edit Teacher, Class cteac manilucky799@gmai.com Standard User
Edit User, Integration integ integration@00d5j0000091xeweau.com Analytics Cloud Integration User
Edit User, Security sec insightssecurity@00d5j0000091xeweau.com Analytics Cloud Security User
https://gpcet2-dev-ed.develop.lightning.force.com/one/one.app#/setup/ManageUsers/home


SETUP
Users
User Edit
Save
Save & New
Cancel
General Information
= Required Information
First Name Karnakota
Last Name Manideep
Alias KMani
Email manilucky799@gmail.com
Username manilucky799@gmail.com
Nickname User1690468241397921637
Title
Company GPCET
Department
Division
Role <None Specified>
User License Salesforce
Profile System Administrator
Active
Marketing User
Offline User
Knowledge User
Flow User
Service Cloud User
Site.com Contributor User
Site.com Publisher User
WDC User
Data.com User Type

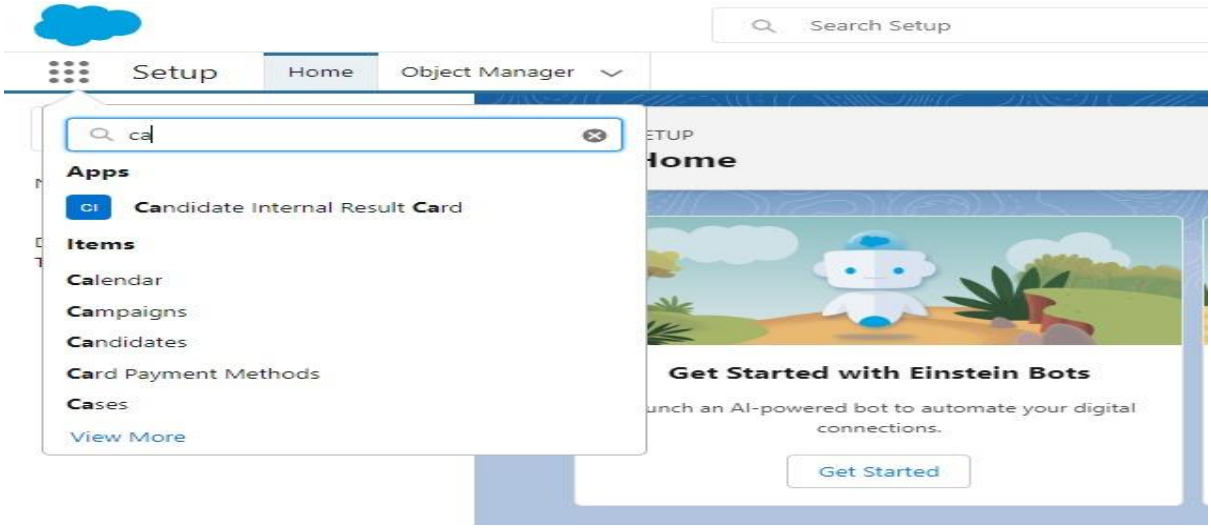
CHAPTER 7 USER ADOPTION

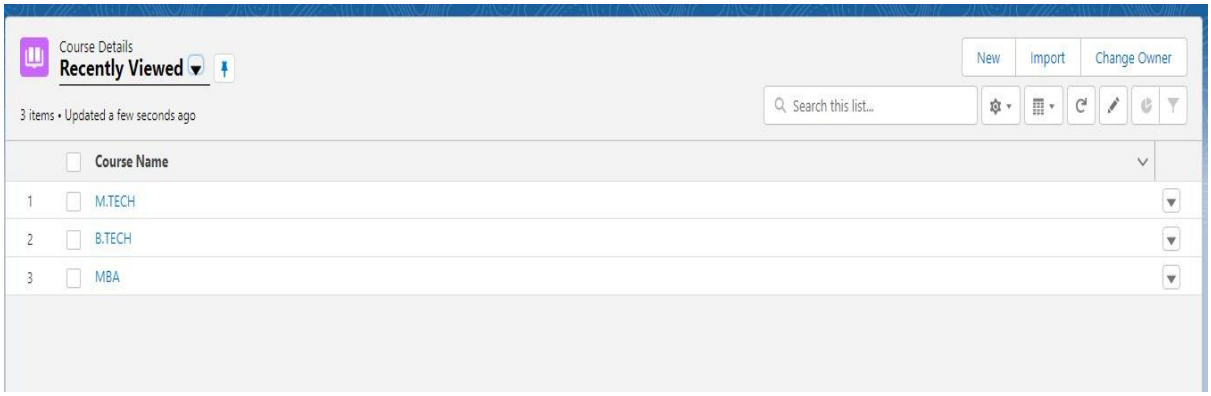
INTRODUCTION

Salesforce user adoption is the simple act of enabling a user to use SFDC's full CRM capabilities by creating strategies around onboarding, training, and continued development – all to drive overall digital adoption

7.1 Create Record (Course Details)

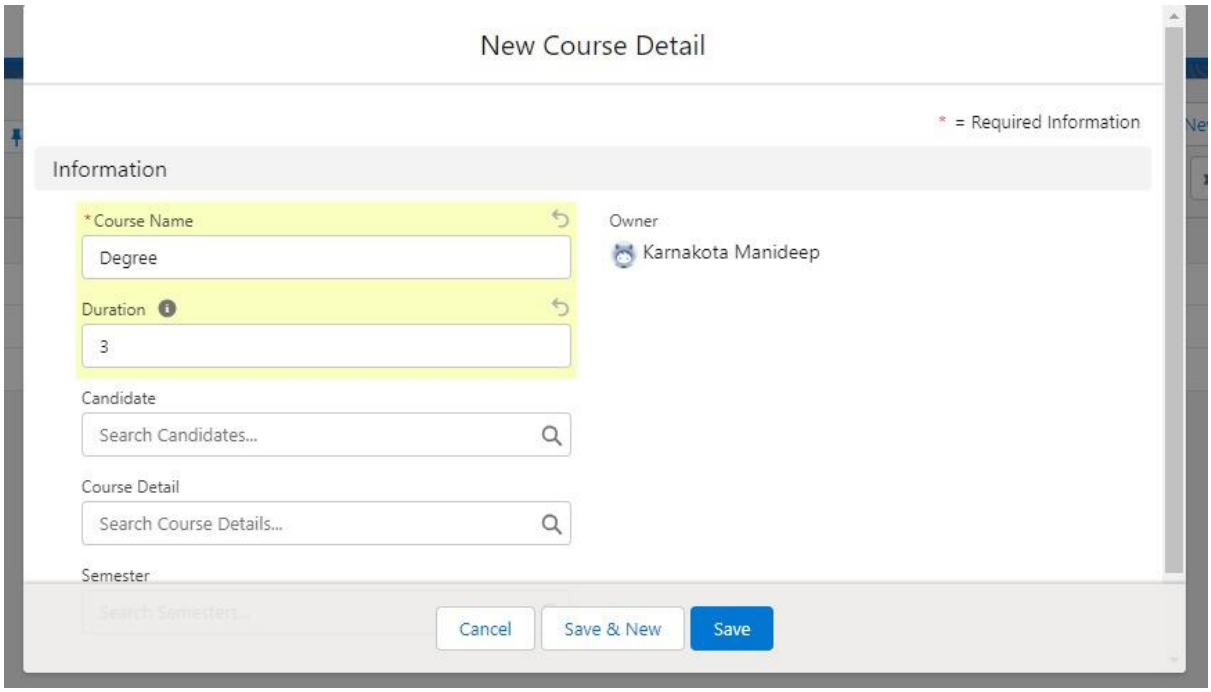
Create Records on Course Details Objects
1. Click on App Launcher on left side of screen.
2. Search Candidate Internal Result Card App & click on it.
3. Click on Course Details tab.
4. Click new button
5. Fill all Course Details record details.
6. Click on Save Button.



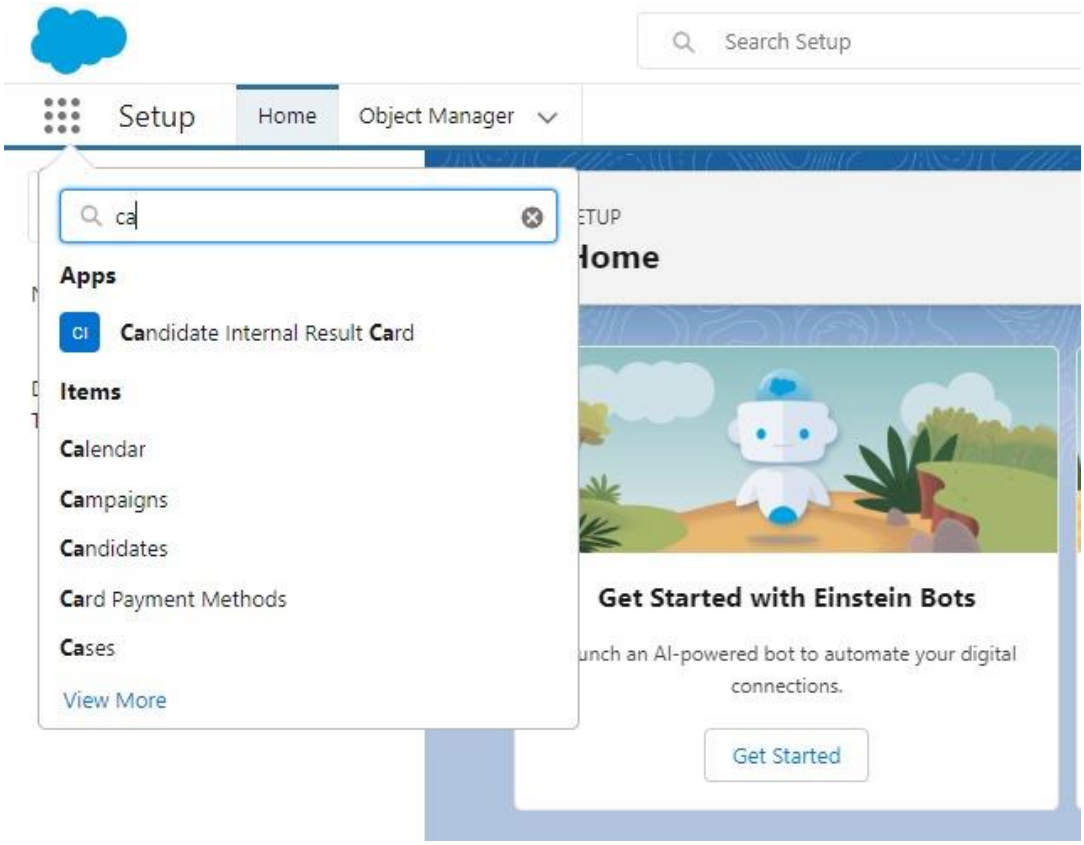


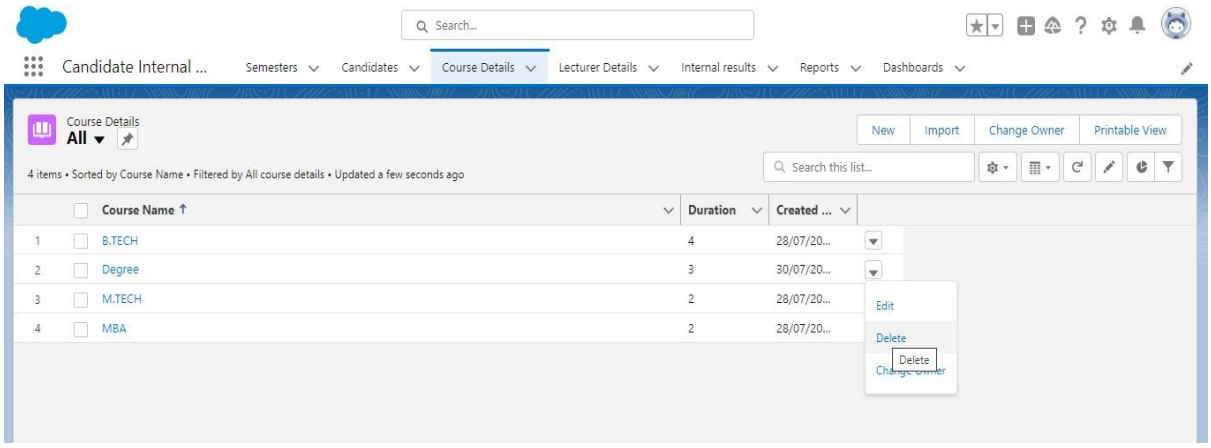
7.2 View Record

Viewing the Records of Course Detail Object



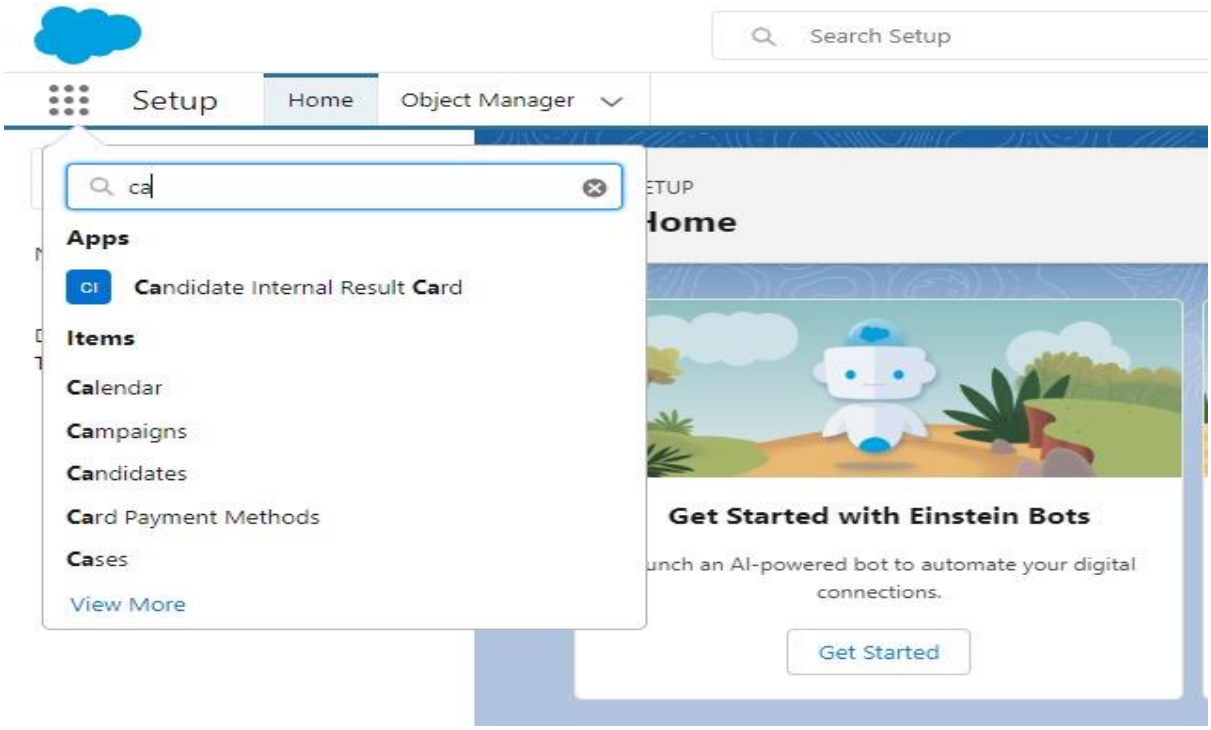
1. Click on App Launcher on left side of screen.
2. Search Candidate Internal Result Card & click on it.
3. Click on Course details Tab.
4. Click on any record name. you can see the details of the Driver

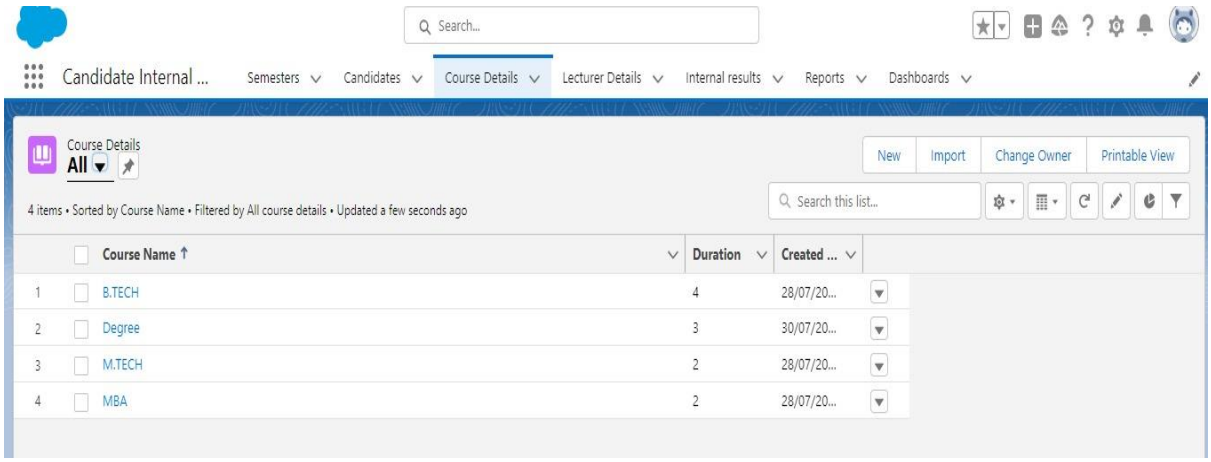

Search Setup
Setup
Home
Object Manager
ca
Apps
Candidate Internal Result Card
Items
Calendar
Campaigns
Candidates
Card Payment Methods
Cases
View More
Get Started with Einstein Bots
Get Started


Search...
Candidate Internal ...
Semesters
Candidates
Course Details
Lecturer Details
Internal results
Reports
Dashboards
Course Details
All
New
Import
Change Owner
Printable View
4 items • Sorted by Course Name • Filtered by All course details • Updated a few seconds ago
Search this list...
Course Name
Duration
Created ...
1 B.TECH 4 28/07/20...
2 Degree 3 30/07/20...
3 M.TECH 2 28/07/20...
4 MBA 2 28/07/20...
Edit
Delete
Delete

7.3 Delete Record

Deleting Records of Course Details Object
1. Click on App Launcher on left side of screen.
2. Search Candidate Internal Result Card & click on it.
3. Click on Course details Tab.
4. Click on Arrow at right hand side on that Particular record.
5. Click delete and delete again.





CHAPTER 8 WHAT ARE REPORTS?

INTRODUCTION

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:

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.

Summary Reports:

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

Matrix Report:

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.

Joined Reports:

These types of reports let us create different views of data from multiple report types. The data is joined reports are organized in blocks. Each block acts as a sub-report 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:

Standard Report Types: 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.

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:

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.

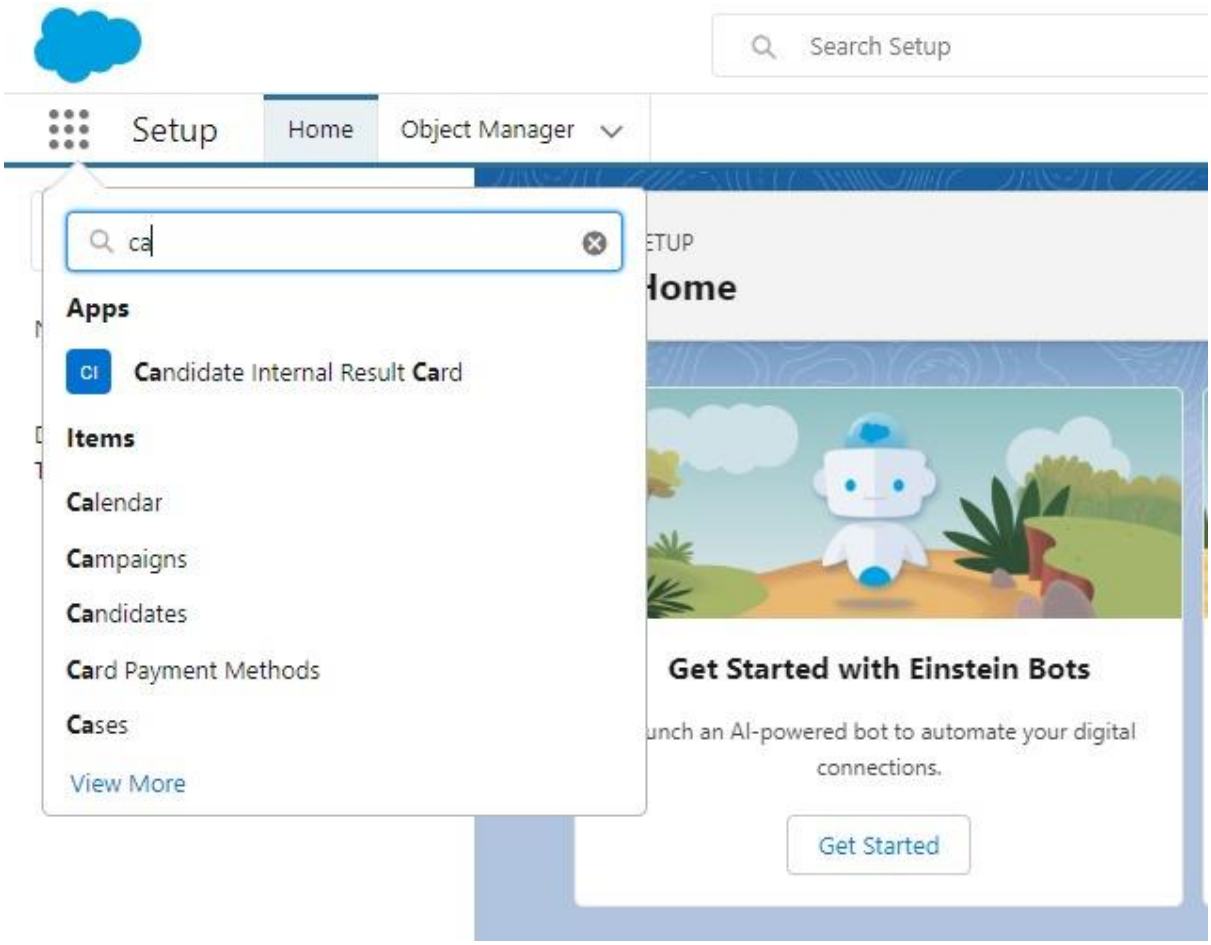
Editor: With this access level, users can view and modify the reports it contains and can also move them to/from any other folders they have access level as Editor or Manager.

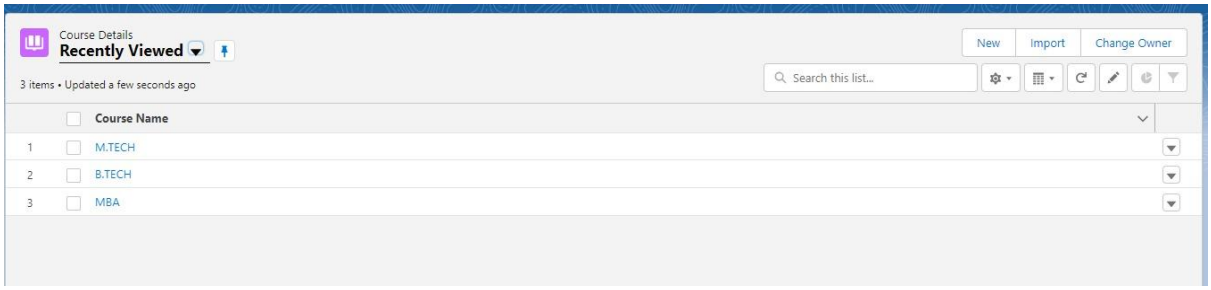
Manager: With this access level, users can do everything Viewers & Editors can do, plus they can also
control other user's access levels to this folder. Also, users with Manager Access levels can delete the report.

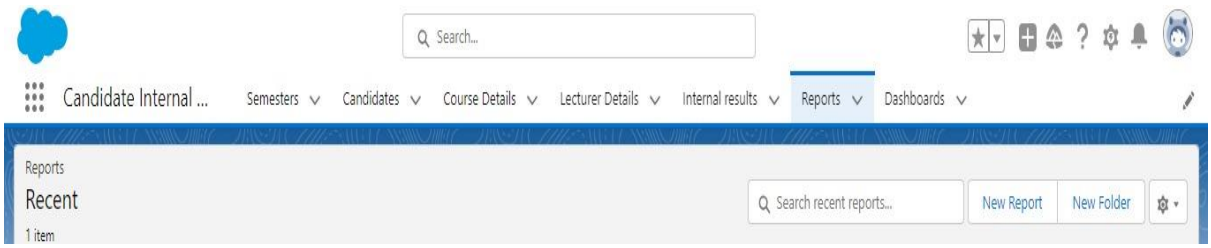
8.1 Create Project

1. Click App Launcher
2. Select Candidate Internal Result Card App
3. Click reports tab
4. Click New Report.
5. Click the report type as Semesters with Course Click Start report.
6. Customize your report, in group rows select - Course Name, in group column Select Duration (In this way we are making a Matrix Report).
7. Click refresh
8. Click save and run
9. Give report name – Candidate Internal Result Report
10. Click Save

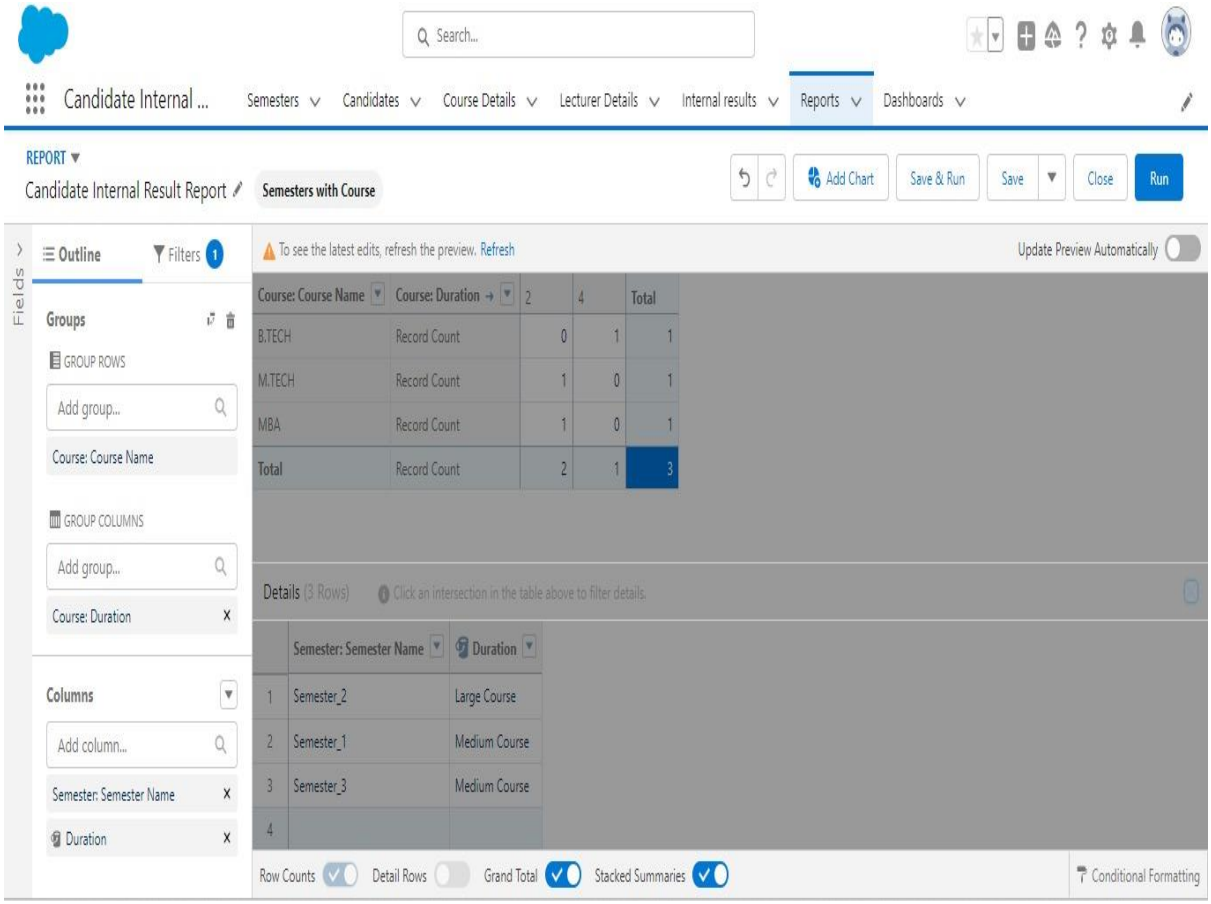
NOTE: In this report you can see your all record of the object you selected for reporting (What you Selects in "Select a report type option").

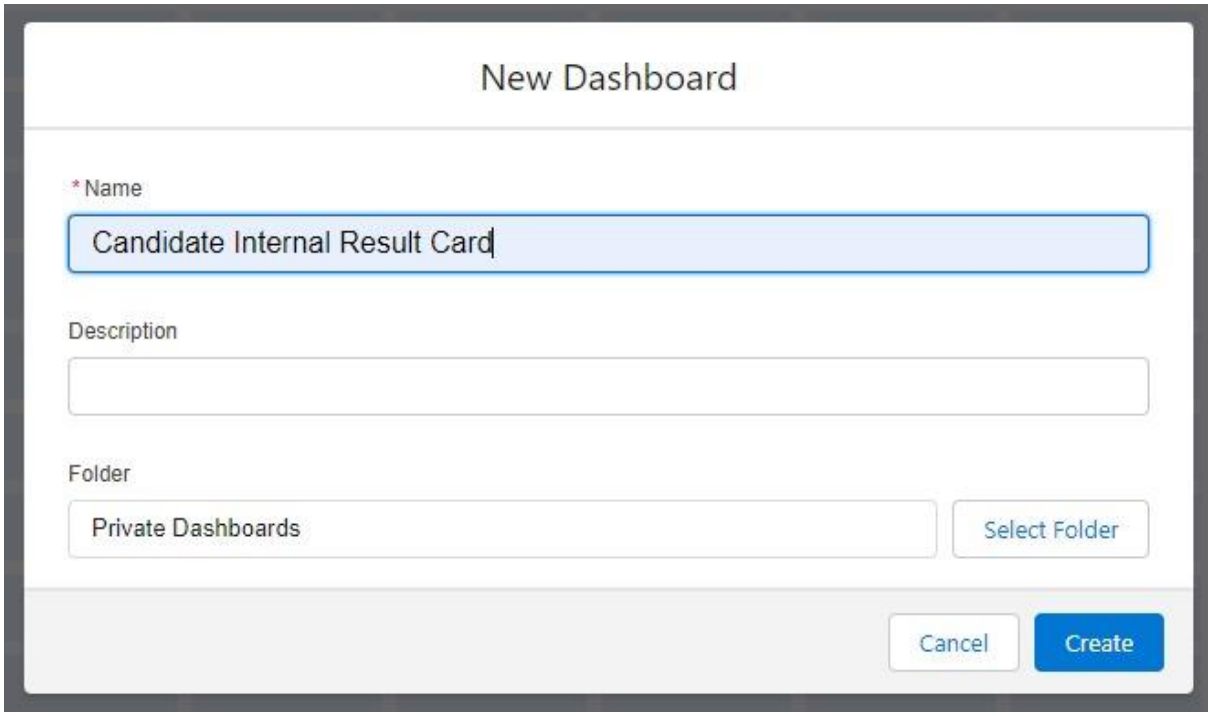

Search Setup
Setup
Home
Object Manager
ca
Apps
Candidate Internal Result Card
Items
Calendar
Campaigns
Candidates
Card Payment Methods
Cases
View More
Get Started with Einstein Bots
Get Started


Course Details
Recently Viewed
3 items • Updated a few seconds ago
New
Import
Change Owner
Search this list...
Course Name
1 M.TECH
2 B.TECH
3 MBA


Search...
Candidate Internal ...
Semesters
Candidates
Course Details
Lecturer Details
Internal results
Reports
Dashboards
Reports
Recent
1 item
Search recent reports...
New Report
New Folder

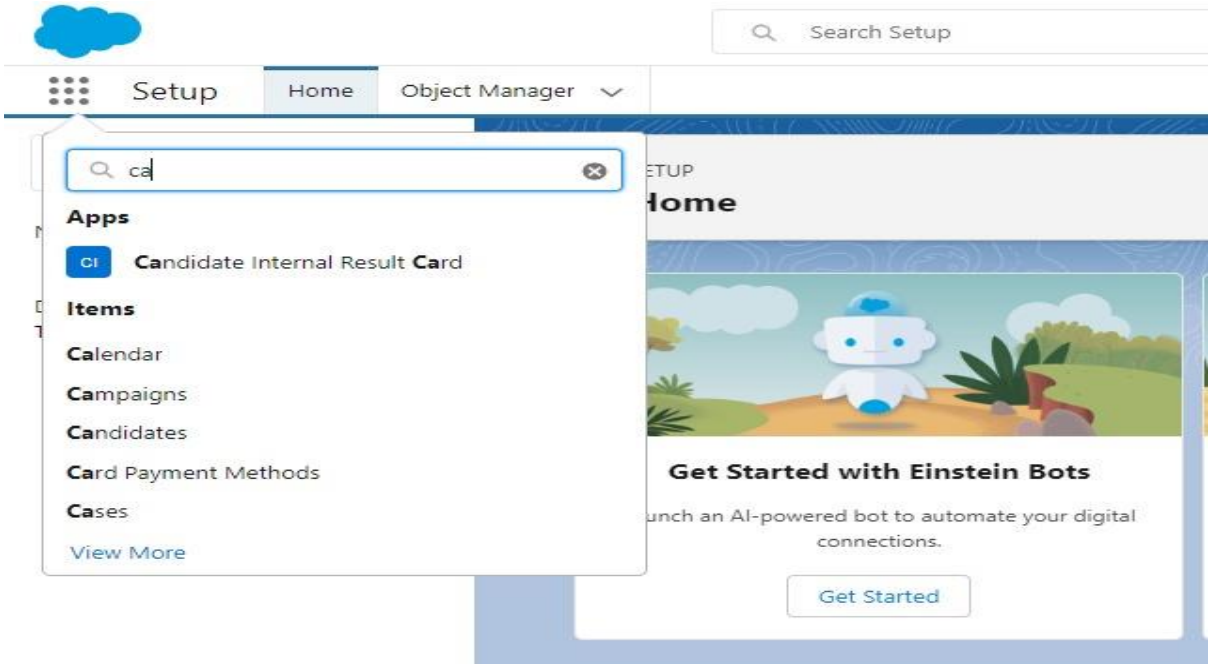
1. On the report builder page, locate the "Fields" pane on the left-hand side.
2. Find the field for which you want to create a bucket field and drag it to the report preview section.
3. Click on the field in the report preview to open the field properties.
4. In the field properties, locate the "Summarize" option and click the drop-down arrow.
5. Select "Bucket Field" from the available options.
6. In the bucket field settings, define the buckets based on your requirements. You can specify the bucket ranges, labels, and groupings.
7. Click "OK" or "Apply" to save the bucket field settings.
8. Customize the report layout and add any additional fields or filters as needed.
9. Once you are satisfied with the report setup, click "Save" to save the report

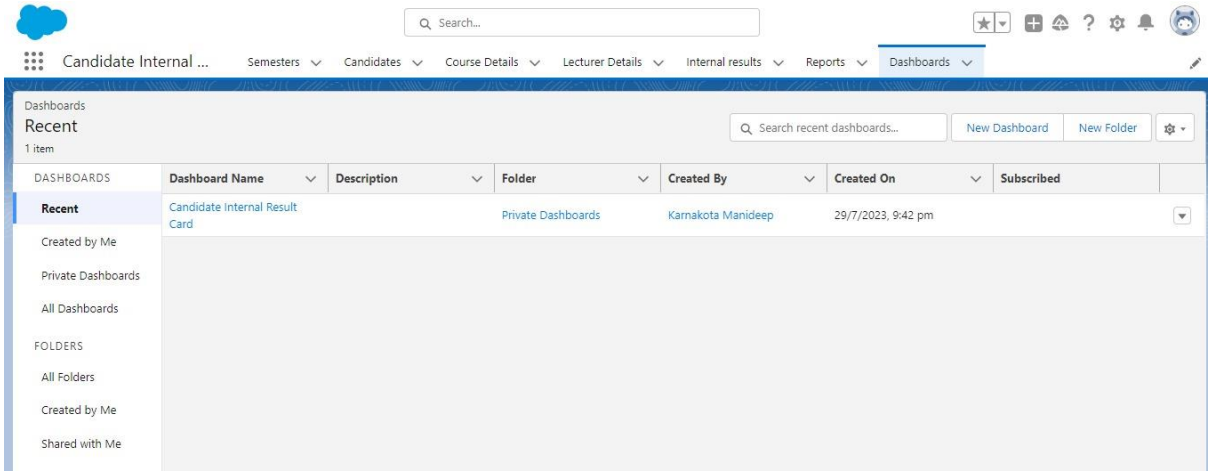



New Dashboard
* Name
Candidate Internal Result Card
Description
Folder
Private Dashboards
Select Folder
Cancel
Create

8.2 View Report

1. Click on App Launcher on left side of screen.
2. Search Candidate Internal Result Card App & click on it.
3. Click on Reports Tab.
4. Click on Candidate Internal Result Report and see records.





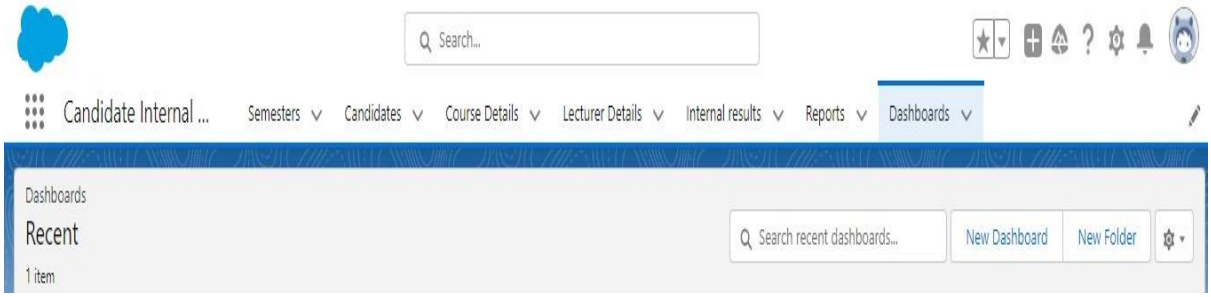
CHAPTER 9 DASHBOARDS

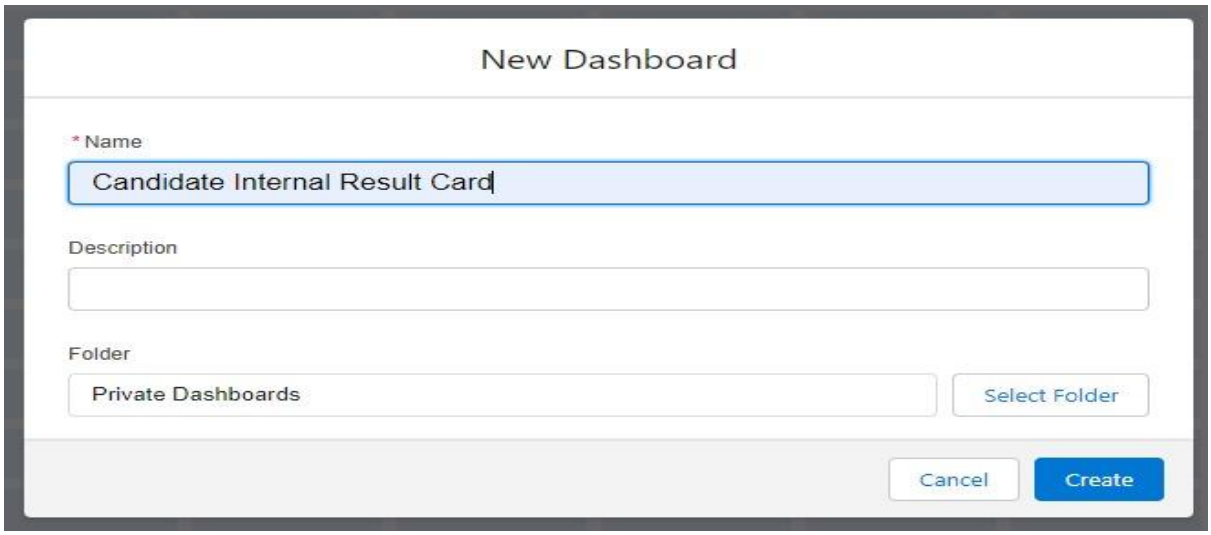
INTRODUCTION

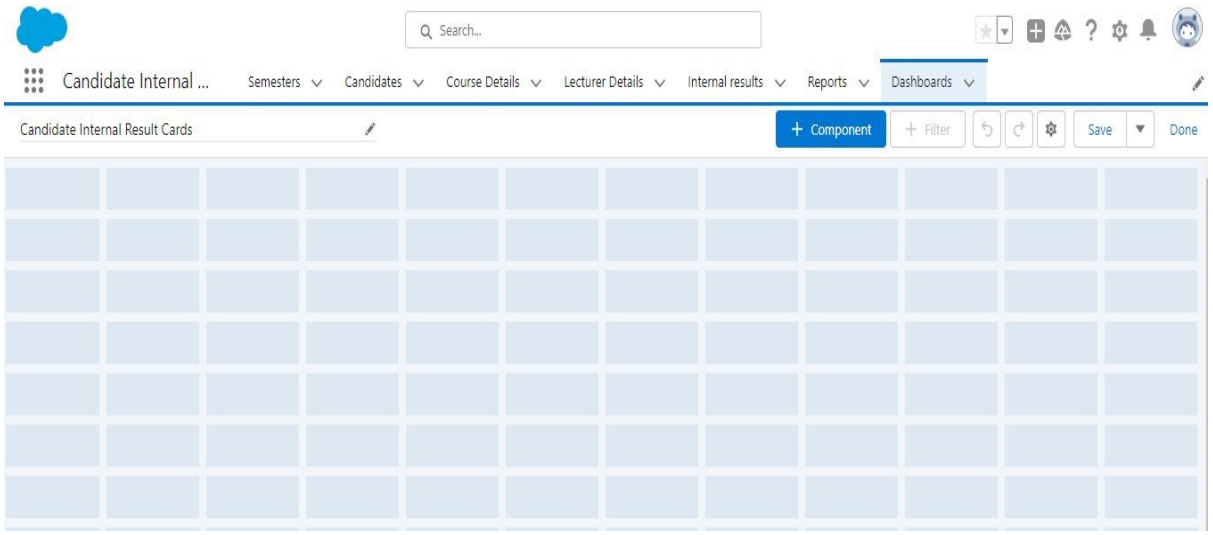
Dashboards let you curate data from reports using charts, tables ,and metrics. If your colleagues need more information, then they’reable to view your dashboard's data-supplying reports. Dashboard filters make it easy for users to apply different data perspectives to a single dashboard.

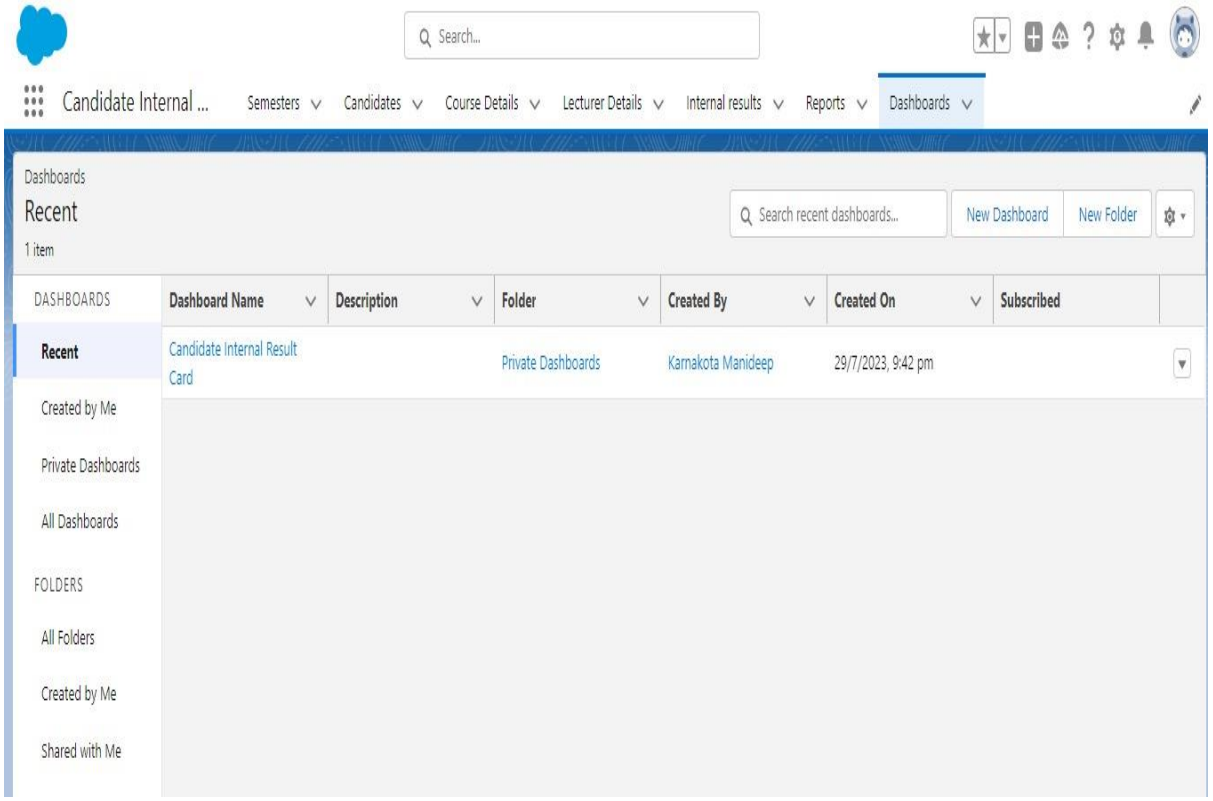
9.1 Create Dashboard

1. Click on Dashboards tab from the Candidate Internal Result Card application.
2. Click on new dashboard.
3. Give name- Candidate Internal Result Card
4. Click create
5. Give your dashboard a name and click on +component
6. Select the Candidate Internal Result Report which you created.
7. For the data visualization select any of the chart, table etc. as per your choice/requirement.
8. Click add.
9. Click save.



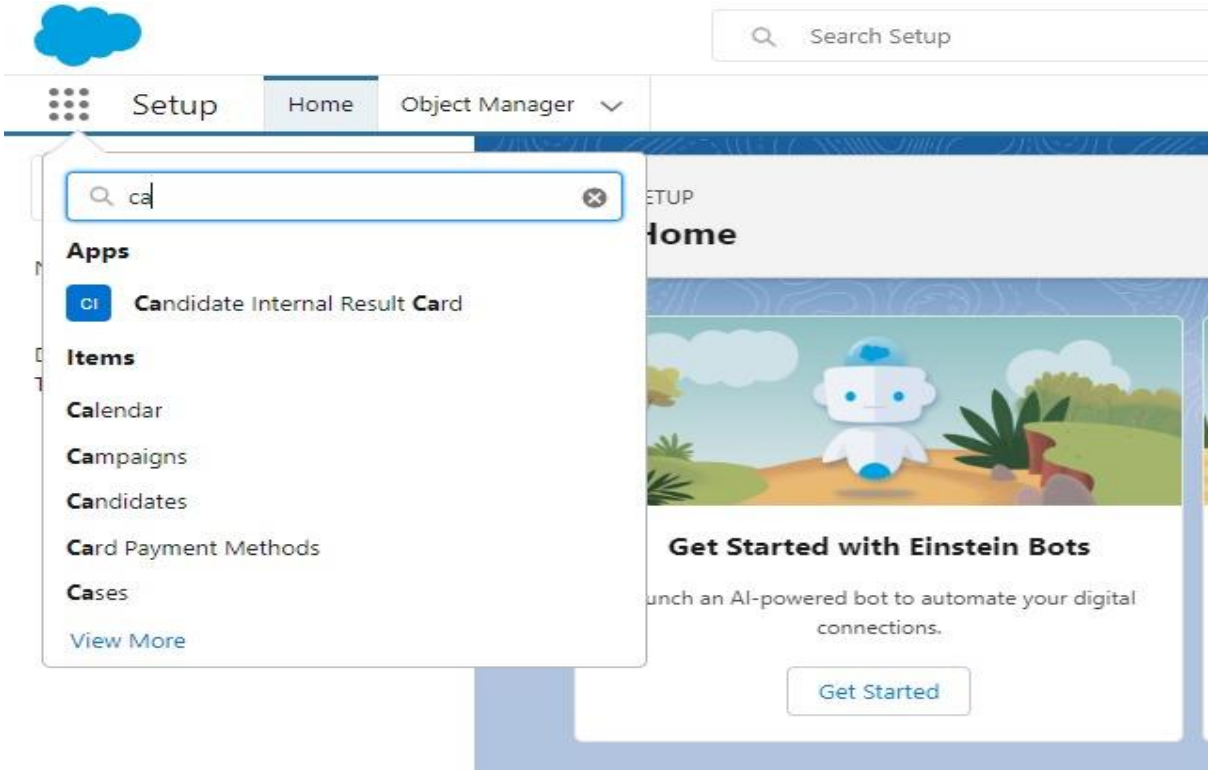


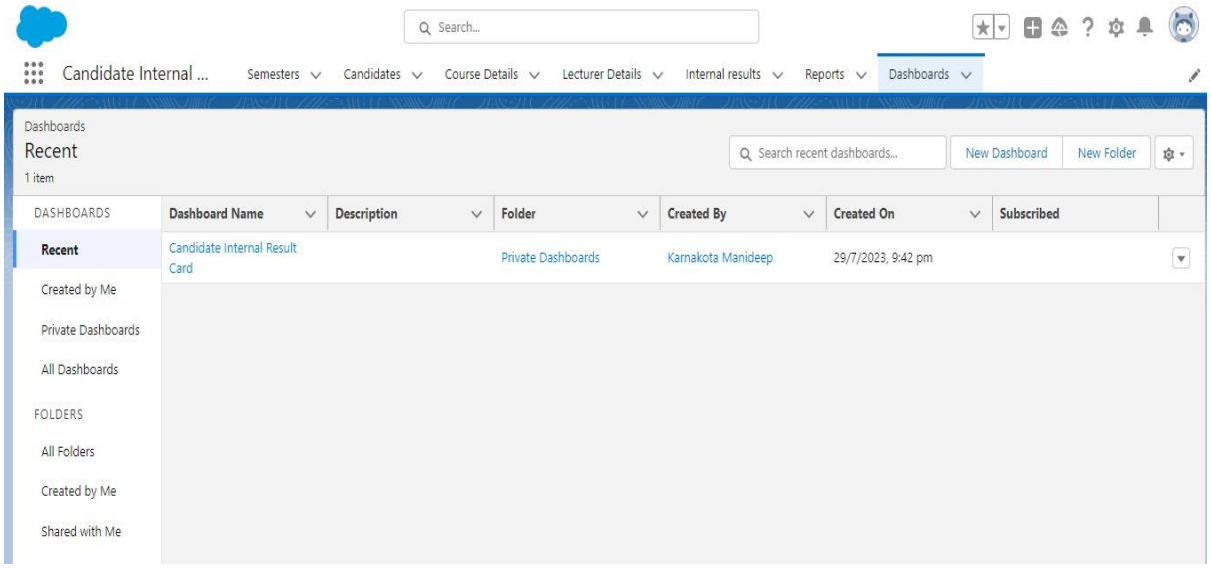

Search...
Candidate Internal ...
Semesters
Candidates
Course Details
Lecturer Details
Internal results
Reports
Dashboards
Candidate Internal Result Cards
+ Component
+ Filter
Save
Done


Search...
Candidate Internal ...
Semesters
Candidates
Course Details
Lecturer Details
Internal results
Reports
Dashboards
Dashboards
Recent
1 item
Search recent dashboards...
New Dashboard
New Folder
DASHBOARDS
Recent
Created by Me
Private Dashboards
All Dashboards
FOLDERS
All Folders
Created by Me
Shared with Me
Dashboard Name
Description
Folder
Created By
Created On
Subscribed
Candidate Internal Result Card
Private Dashboards
Karnakota Manideep
29/7/2023, 9:42 pm

9.2 View Dashboard

1. Click on App Launcher on left side of screen.
2. Search Candidate Internal Result Card & click on it.
3. Click on Dashboard Tab.
4. Click on Candidate Internal Result Card see graph view of records





CHAPTER 10 EXPERIMENTAL RESULTS

Fig 10.1

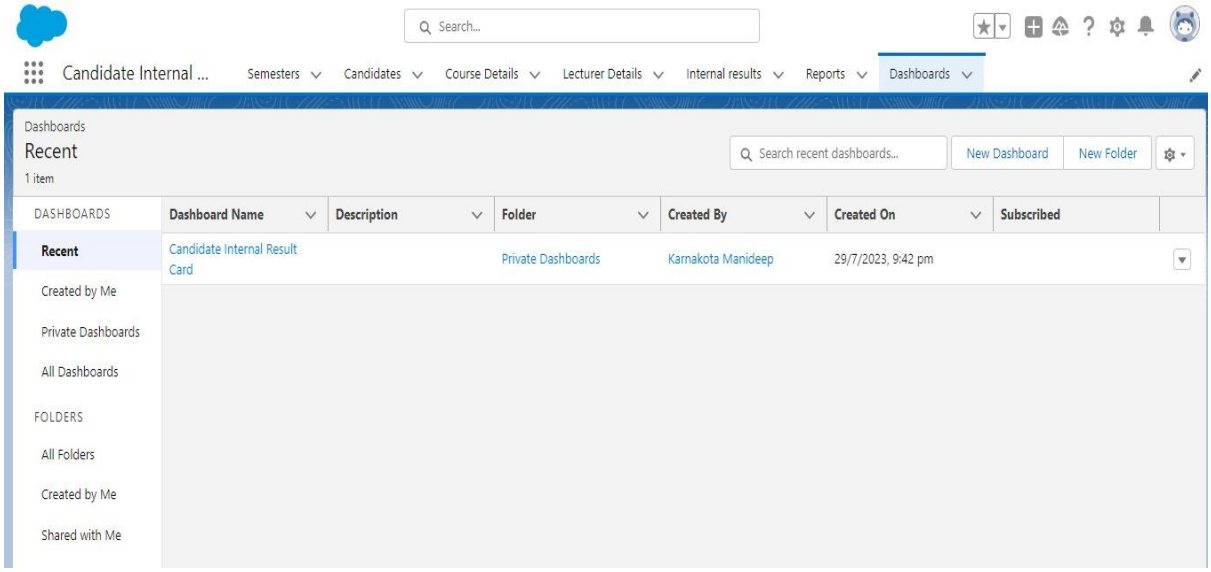


Fig 10.2

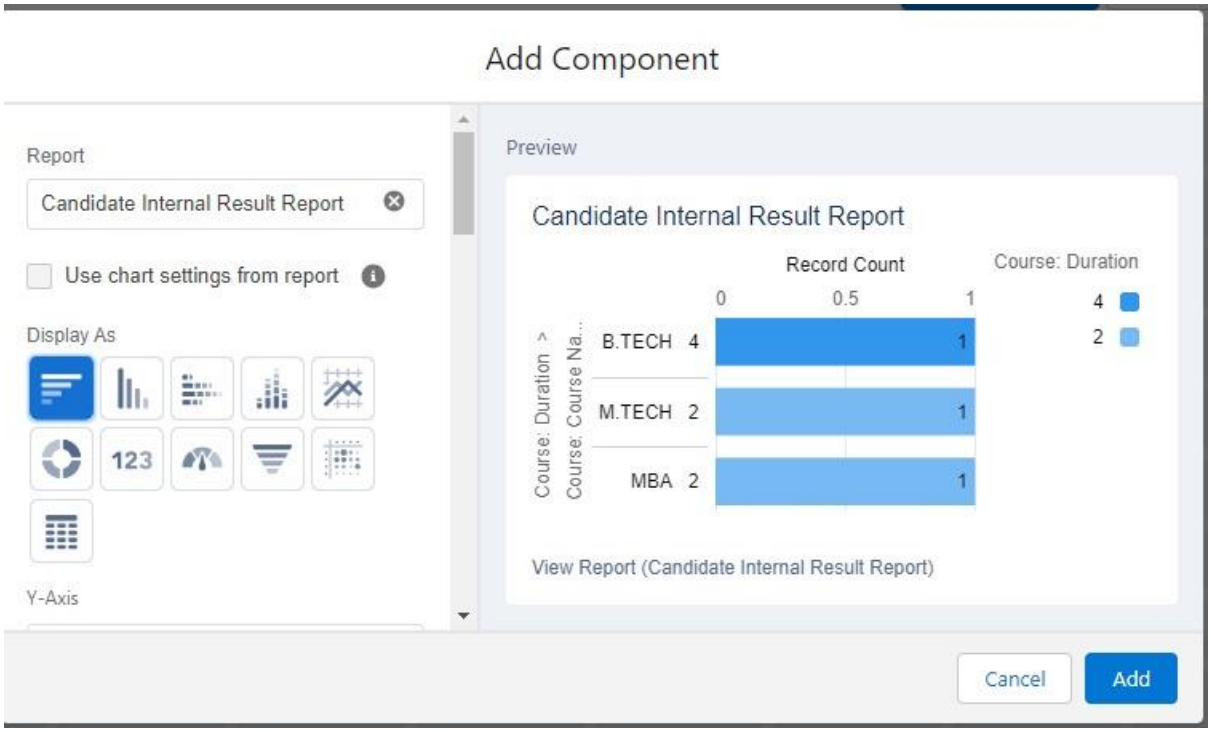


Fig 10.3

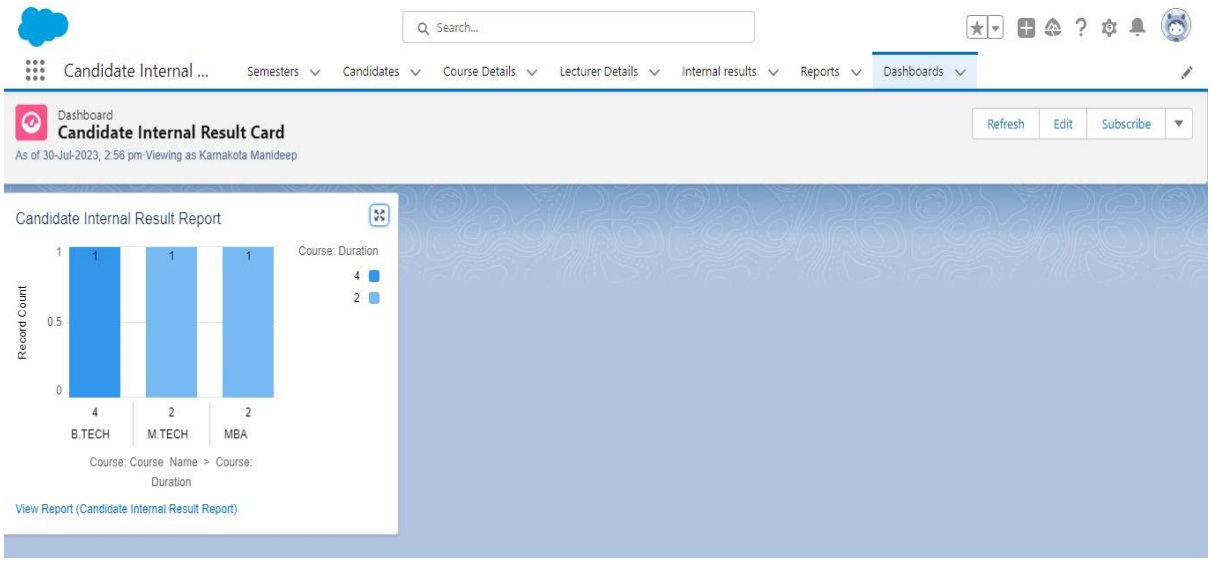
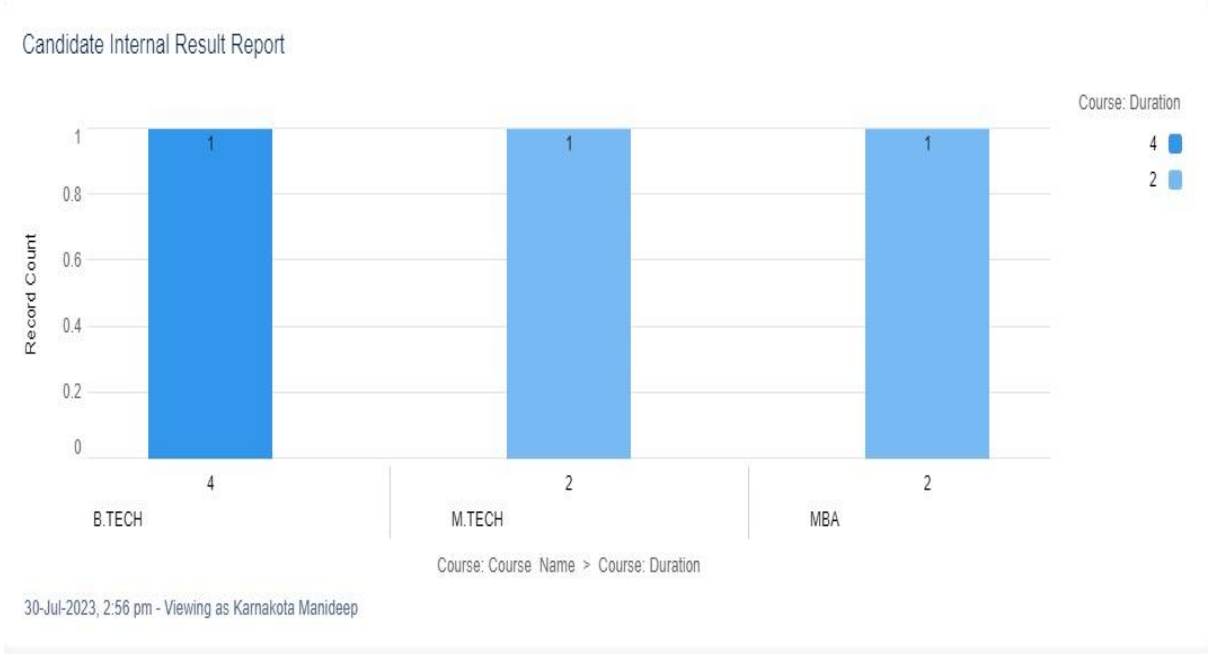


Fig 10.4



11.Advantages & Disadvantages:

Advantages:

- It is used to tracking the internal results of the students.
- It tracks of students data.
- Provides streamline operations.

Disadvantages:

- If manual error occurs during the feeding of data it is difficult to be altered.
- Having lots of security concerns.
- It can be accessed by third party.

12.Conlusion:

- It is easiest method to track the students internal result and also it can be tracked anywhere through online mode.

Future Scope:

- Students date of birth can be included for verifying students.
- External marks can included so result analysis can be done easily.

Trailhead Profile Public URL:

- **Team Lead** - https://www.salesforce.com/trailblazer/ejayachandrika
- **Team Member-** https://www.salesforce.com/trailblazer/deepu799