Build An Employee Travel Approval Application For Corporates (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 to those professionals who are in cross-technology and wanted to switch to Salesforce with the help of this project they will gain knowledge and can include into their resume as well.

What you'll learn

1. in Real-Time Salesforce Project
2. Object & Relationship Salesforce

Milestone 1- Create 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

Creating Developer Org

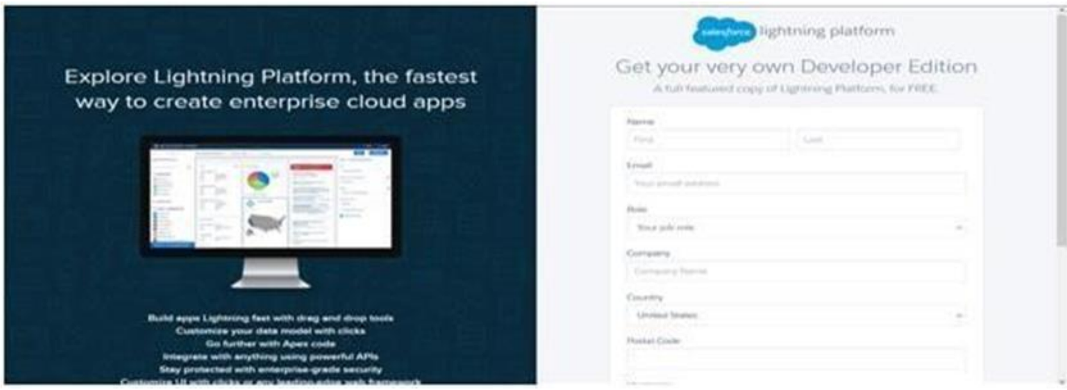
Creating a developer org in salesforce.

1. Go to developers.salesforce.com/
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

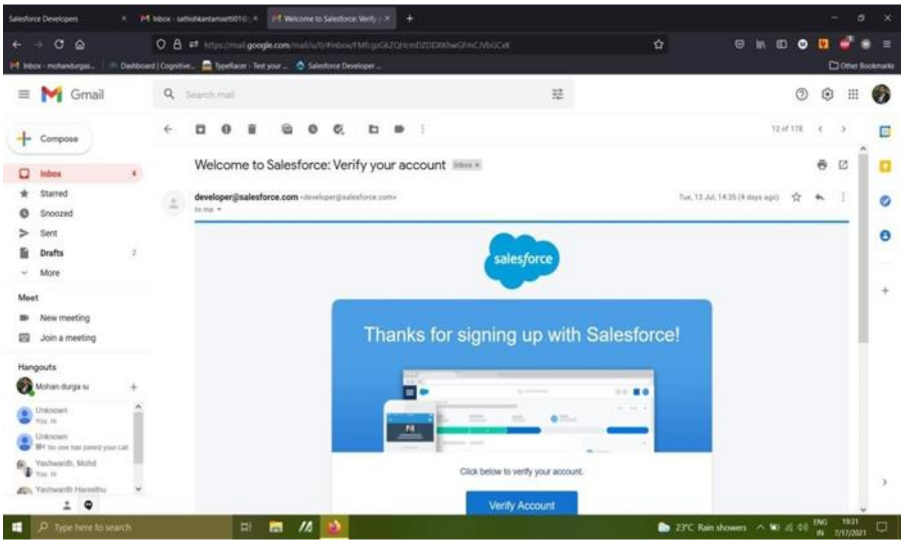
This need not be an actual email id, you can give anything in the format: username@organization.com

Click on sign up after filling these.



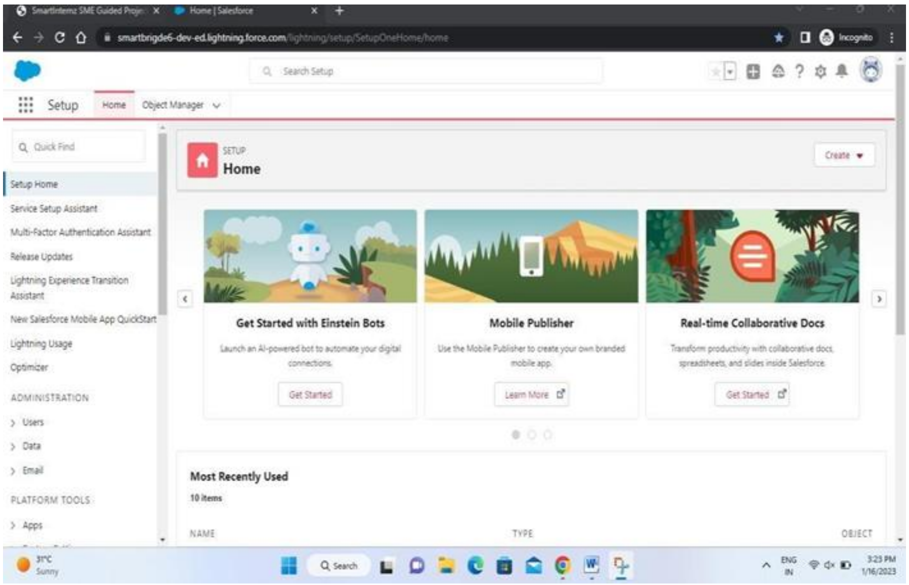
Account Activation

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

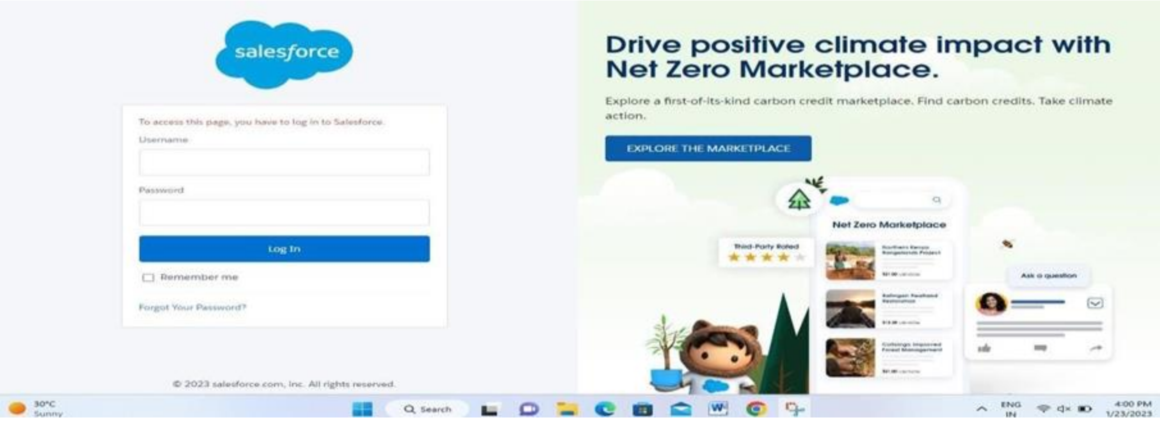


Login To Your Salesforce Account

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
htttps://login.salesforce.com



- ## **Object In Salesforce**
-
- 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. Salesforce objects are of two types:

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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.

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- ## Creation Of Department Object For

Travel Approval App

-
- For this Travel Approval we need to create 5 objects **Department, Employee Detail, Expense, Expense Items,** and **Travel Approval**. The below steps will assist you in creating those objects.

  Create Department 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,

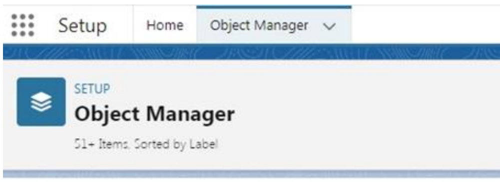
have a look on the extreme right you will find a Create Dropdown click on that and select Custom Object.

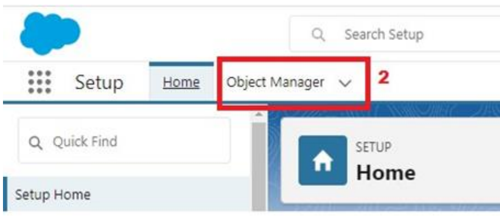
4. On the Custom Object Definition page, create the object as follows:
5. Label: Department
6. Plural Label: *Departments*
7. Record Name: *Department Name*
8. Check the Allow Reports checkbox
9. Check the Allow Search checkbox
10. Click Save.

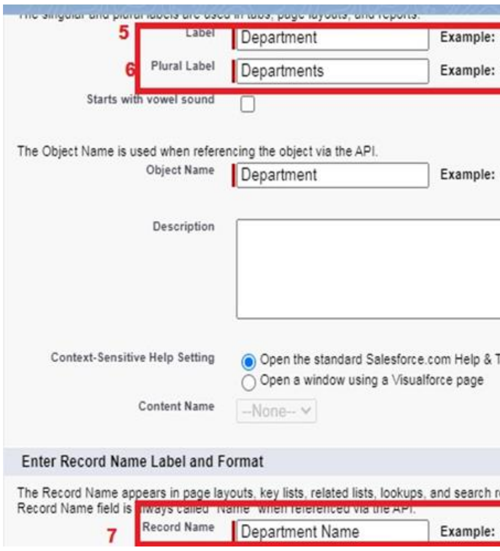
In the same way create 4 more objects **Employee Detail, Expense, Expense Items**, and **Travel**

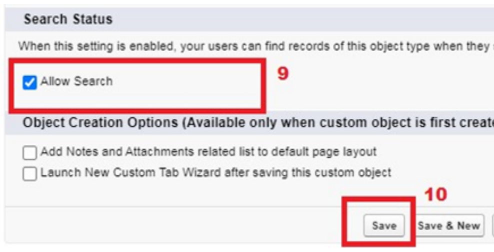
Approval

- **Note –**
  1. While making Expense Object select data type “Auto Number” in “Enter Record Name Label and Format” section.
  2. While making Employee Detail Object put “Employee Name” in “Enter Record Name Label and Format” section.









- ## What Is A Tab?

- 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 Salesforce tabs.

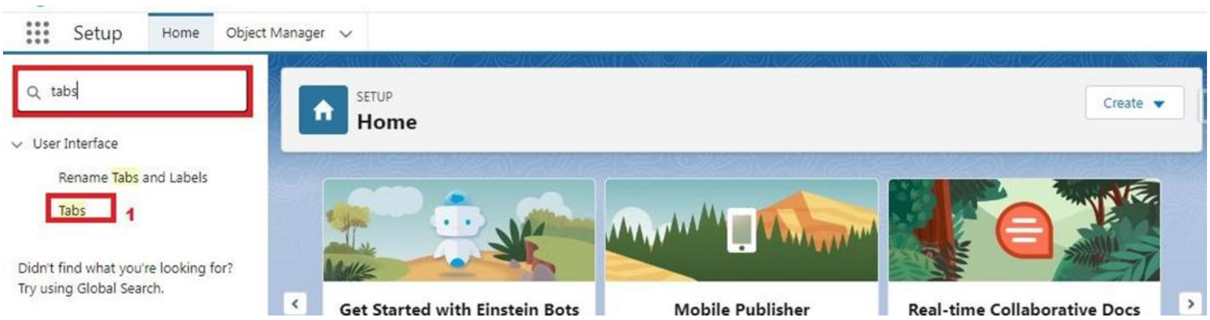
(D) Visualforce Tabs: Visualforce Tabs display data from a

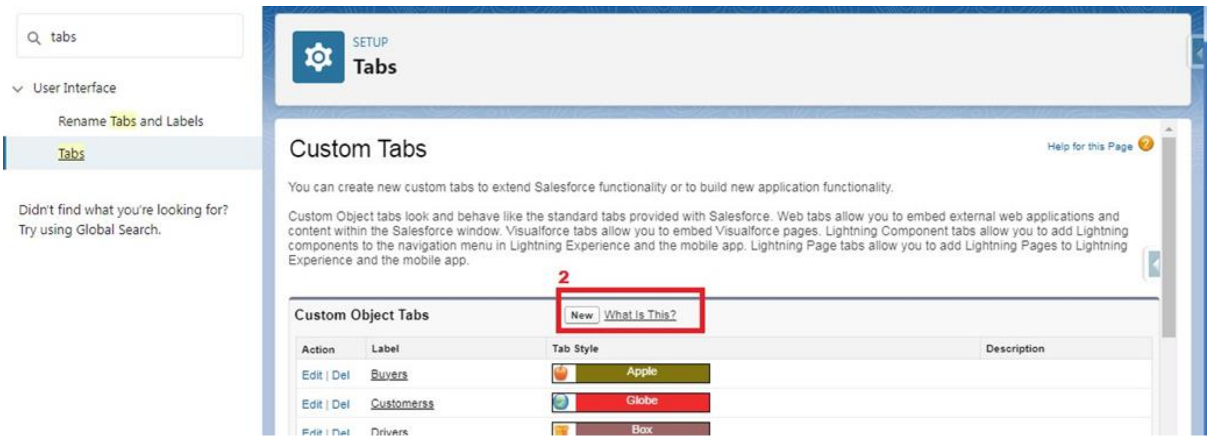
-
- Visualforce Page.

Custom Tab CreationCustom Tab Creation

Now create a custom tab. Click the Home tab.

1. Enter Tabs in Quick Find and select Tabs.
2. Under Custom Object Tabs, click New.
3. For Object, select Department.
4. For Tab Style, select any icon.
5. Leave all defaults as is. Click Next, Next, and Save
6. In the same way create Tabs for all Custom Objects - Employee Detail, Expense, Expense Items, Travel Approval.





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. There are two types of apps -

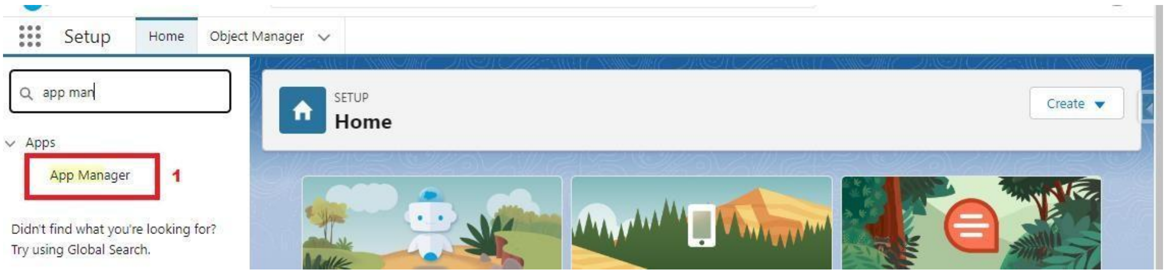
1. Standard App: Standard apps come with every occurrence of Salesforce as default. Many features like Sales, Marketing, Community, call center, content, Salesforce Chatter, App Launcher, etc are present in it.
Note: The description, Logo, and Label of the standard app cannot be altered.

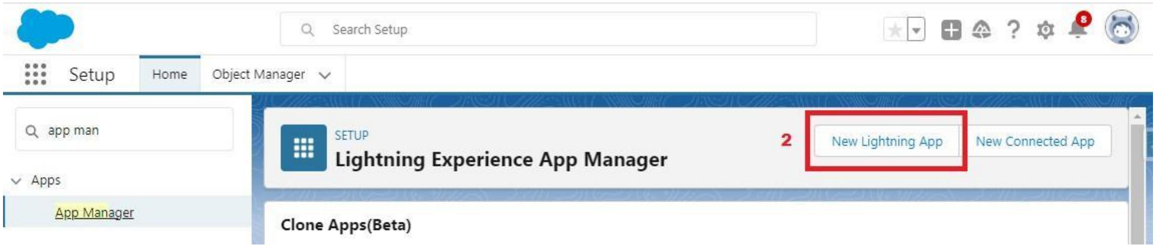
2. Custom Apps: Custom apps are created according to the needs of the user. Custom Apps are made by using standard and custom tabs together.

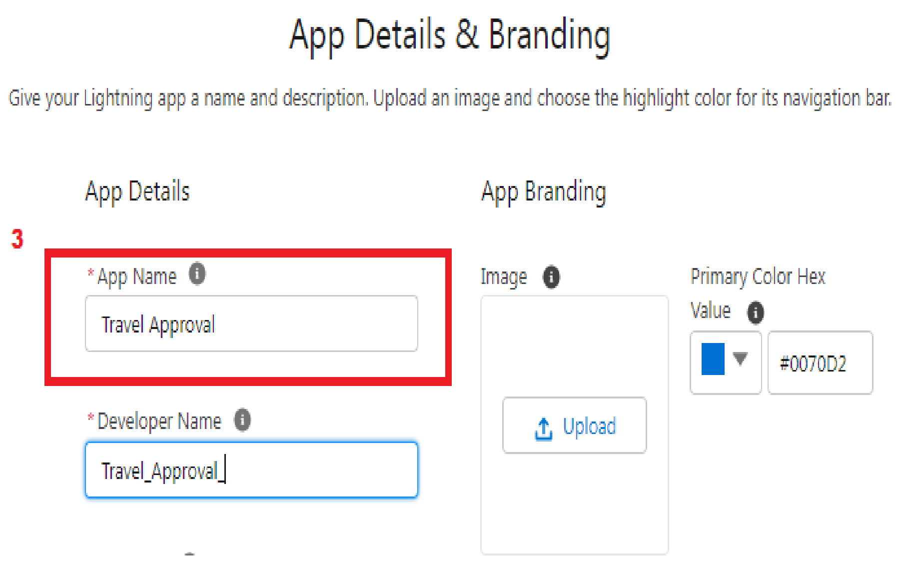
Note: Logos for Custom Apps can be changed.

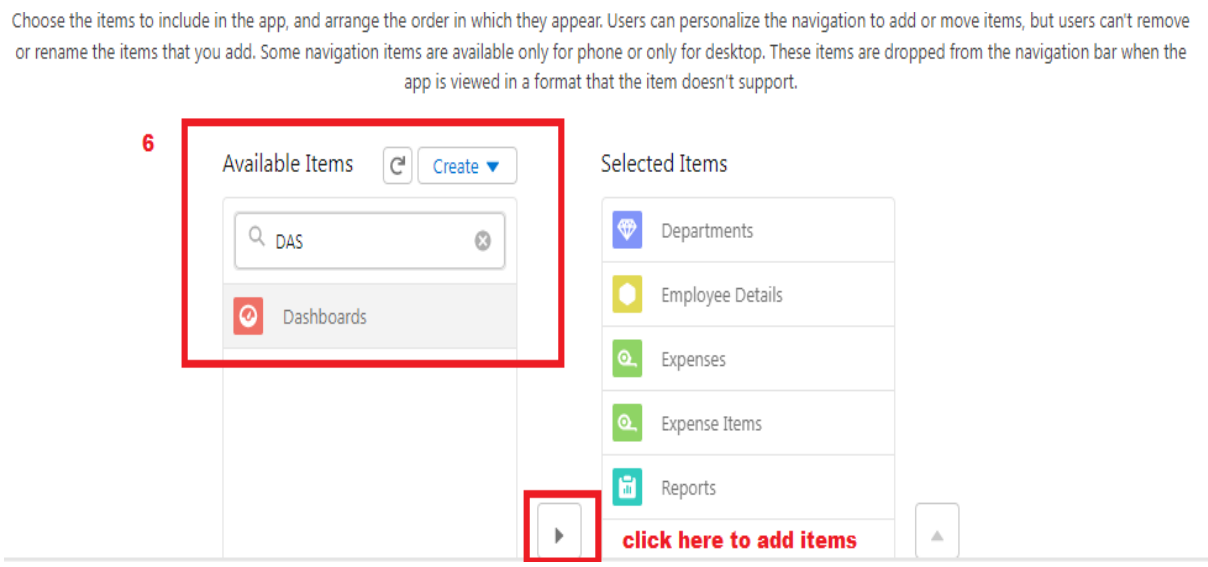
Create the Travel Approval app

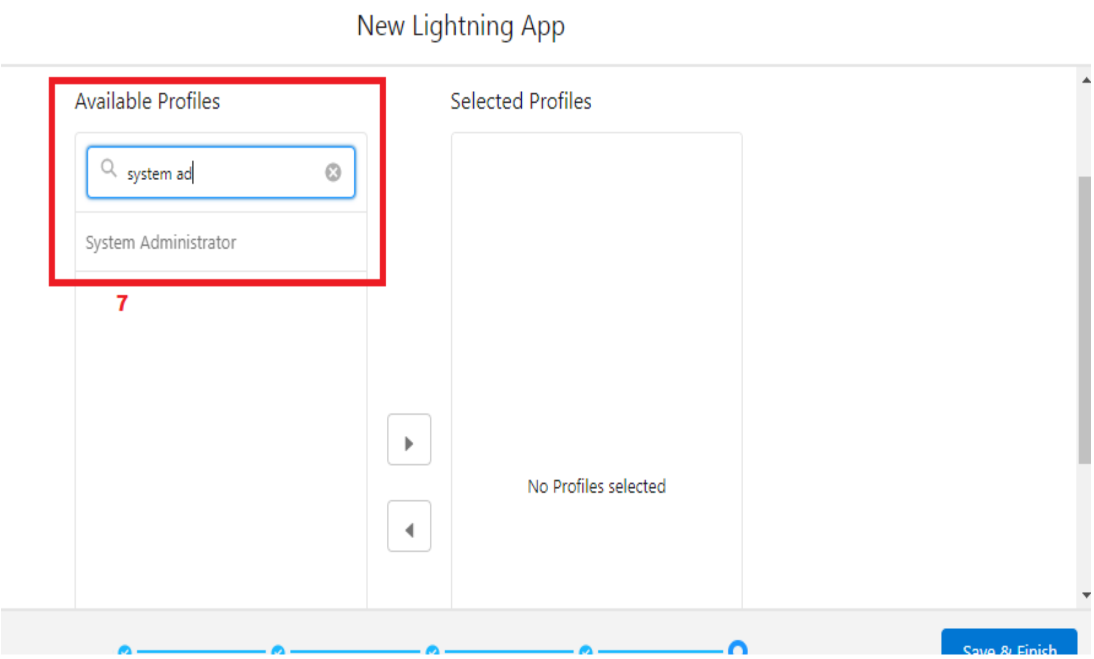
1. From Setup, enter App Manager in the Quick Find and select App Manager.
2. Click New Lightning App.
3. Enter Travel Approval as the App Name, then click Next
4. Under App Options, leave the default selections and click Next.
5. Under Utility Items, leave as is and click Next.
6. From Available Items, select Department, Employee Detail, Expense, Expense Items, Travel Approval, 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.






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
3
* App Name
Travel Approval
* Developer Name
Travel_Approval_
Image
Upload
Primary Color Hex Value
#0070D2


Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.
6
Available Items
Create
DAS
Dashboards
Selected Items
Departments
Employee Details
Expenses
Expense Items
Reports
click here to add items



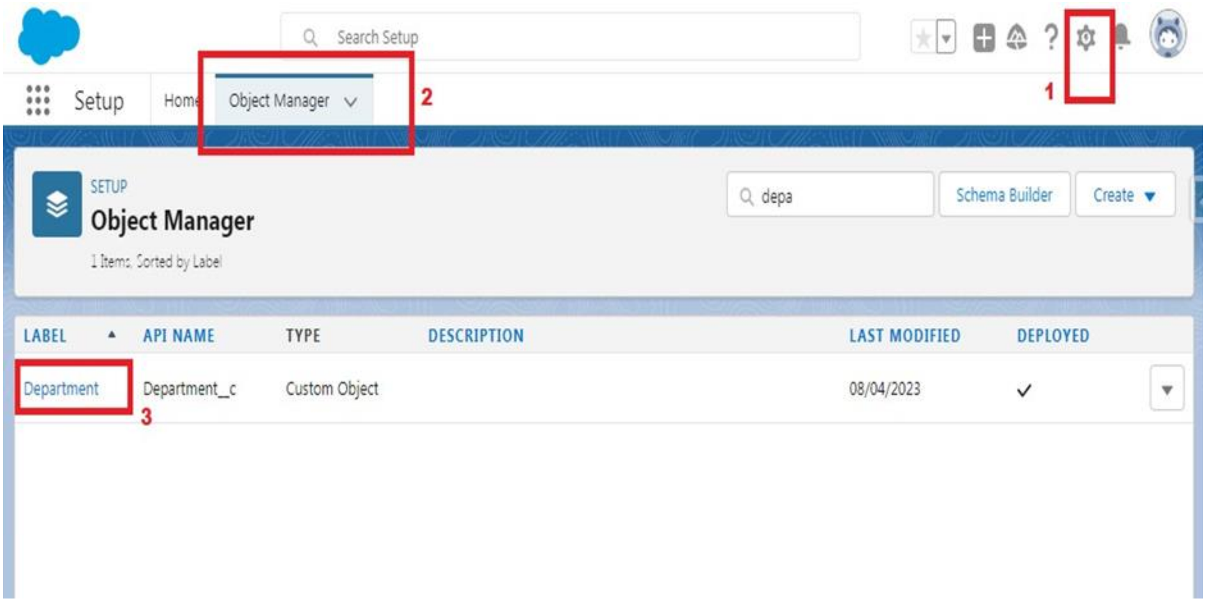
To verify your changes, click the App Launcher, type Travel Approval and select the Travel Approval app.

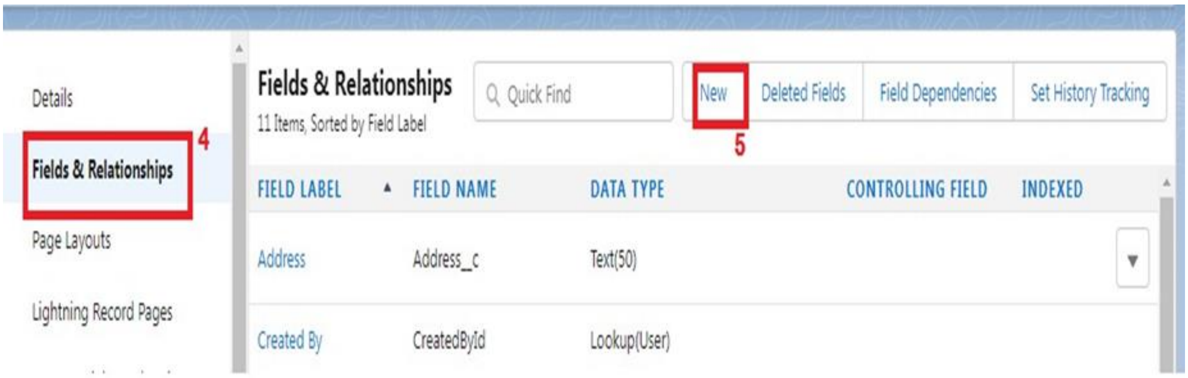
Note:
App Launcher-Displays available apps.
App Name-Displays the current selected app.

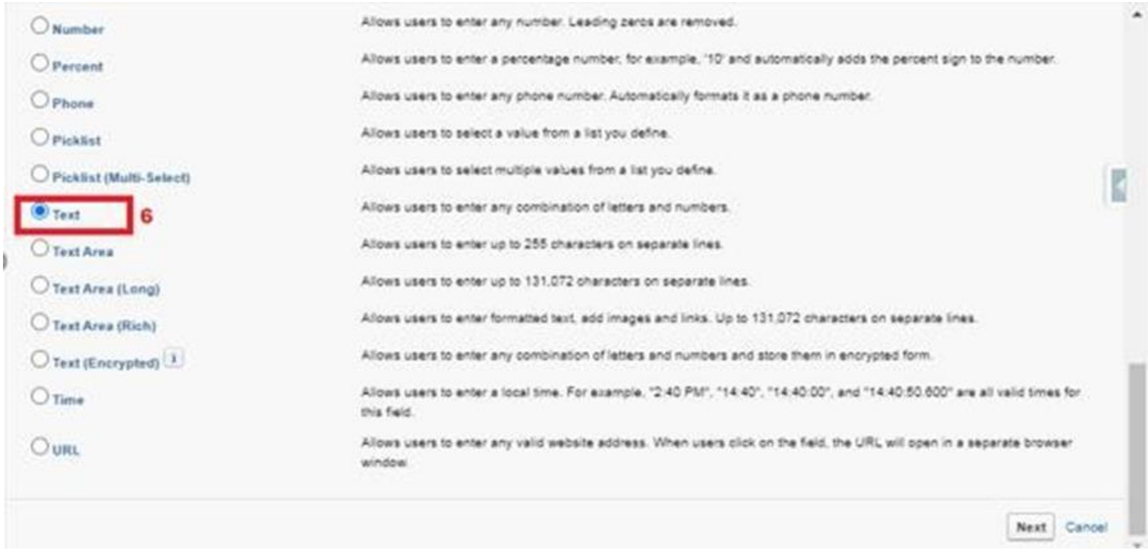
Creation Of Fields For The Department Object:

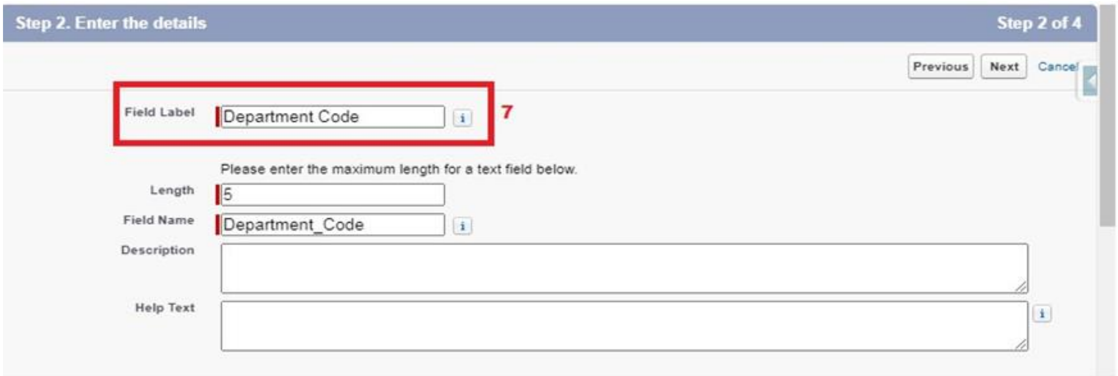
1.Click the gear icon and select Setup. This launches Setup in a new tab.
2.Click the Object Manager tab next to Home.
3.Select Department
4.Select Fields & Relationships from the left navigation
5.Click New

6.Select the Text as the Data Type, click Next.
7.For Field Label, enter Department Code and enter 5 in Length.
8.Click Next, Next, then Save & New.
9.Follow above steps and create two more Text type field - District & State.
10.Also, Provide Length 40 for both District and State field.
11.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.

These are fields and their data types we need to create and make one by one –

NOTE- See activity 2, 3, 4 below to create a lookup field, Roll-up summary field & Picklist field

Object Name	Field Name	Data Type
1. Employee Detail-	Date of Birth	Date
	Gender	Picklist (Male, Female)

Department Lookup (Department)(See activity 2 to create lookup)
Employee Id Text (Length - 12)

2. Expense- Employee Lookup (Employee Detail)
Total Item Rollup summary (Expense Item)

3. Expense Item - Expense Master Detail (Expense)
Expense Type Pick List (Values are- Transport, Hotel, Meal, Others)
Amount Currency

4. Travel Approval- Employee Name Lookup (Employee Detail)
Department Lookup (Department)
Destination state Text (Length – 40)
Purpose of trip Text (Length – 256)
Trip start date Date
Trip End date Date
Status Picklist (Values are- Approved, Rejected)

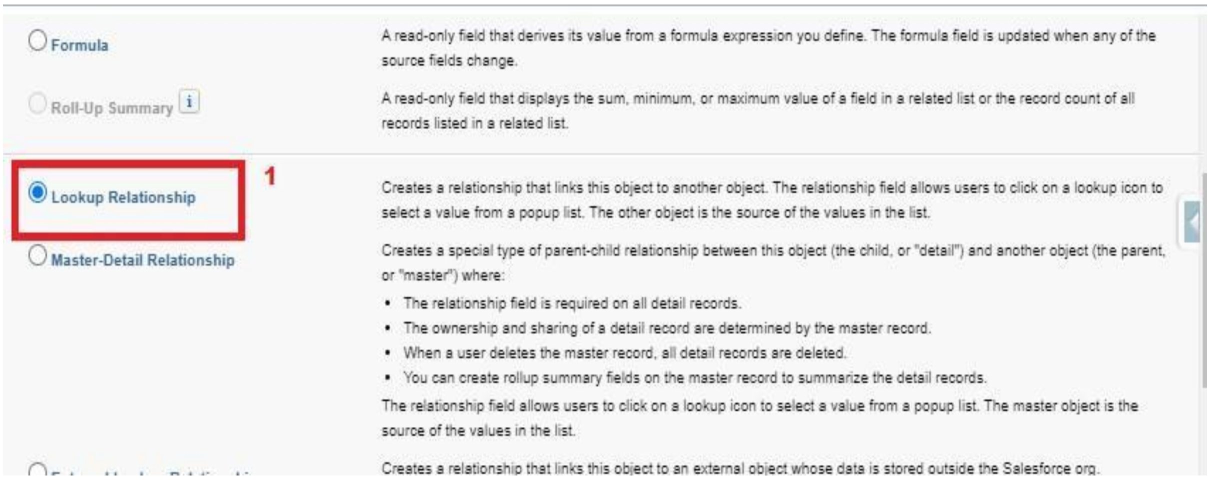
NOTE- Make Trip Start Date and Trip End Date field required when making these field

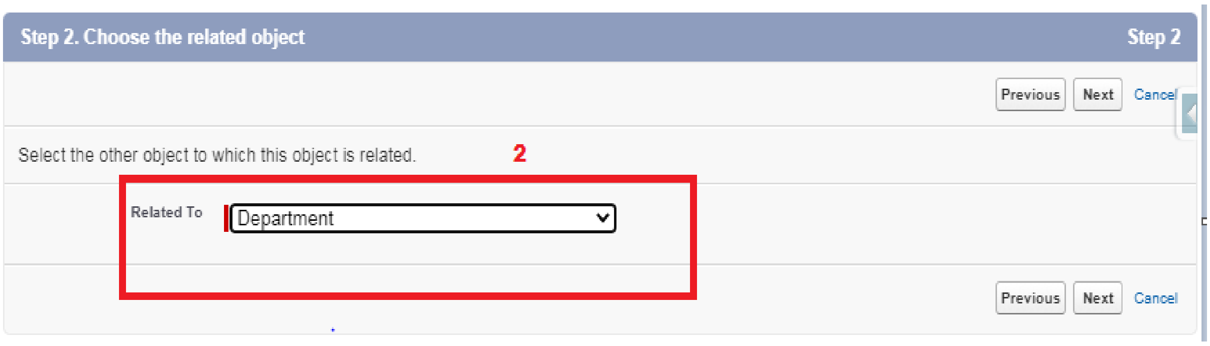
Lookup Relationship With Department

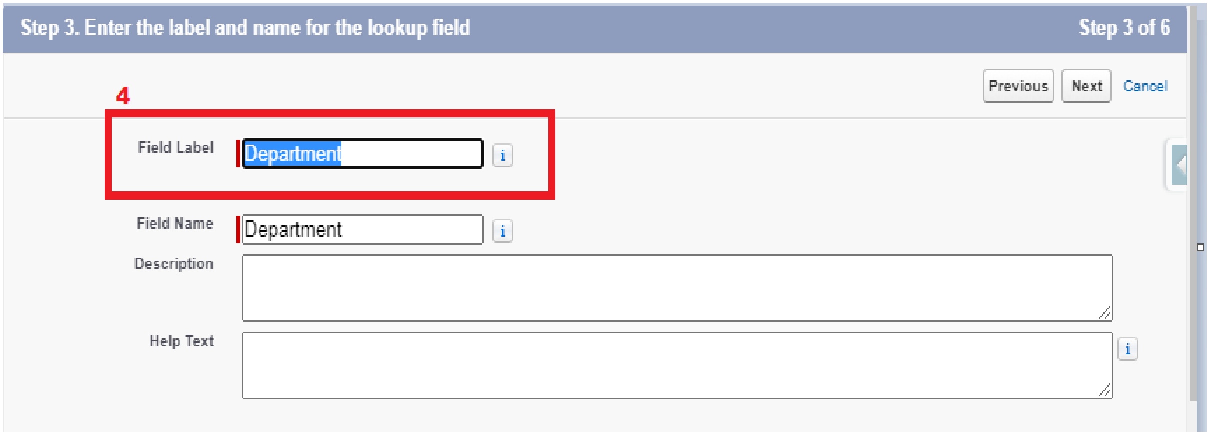
Let's create a Lookup relationship with Department object on Employee Detail object Follow steps 1 to 5 of field creation then follow below steps.
Select look up Relationship as the Data Type and click Next.

For Related to, enter Department.
Click Next.

For Field Label, enter Department.
Click Next, Next, Next and Save.







Let's create a master-detail relationship on Expense Item object

Follow steps 1 to 5 of field creation then follow below steps.

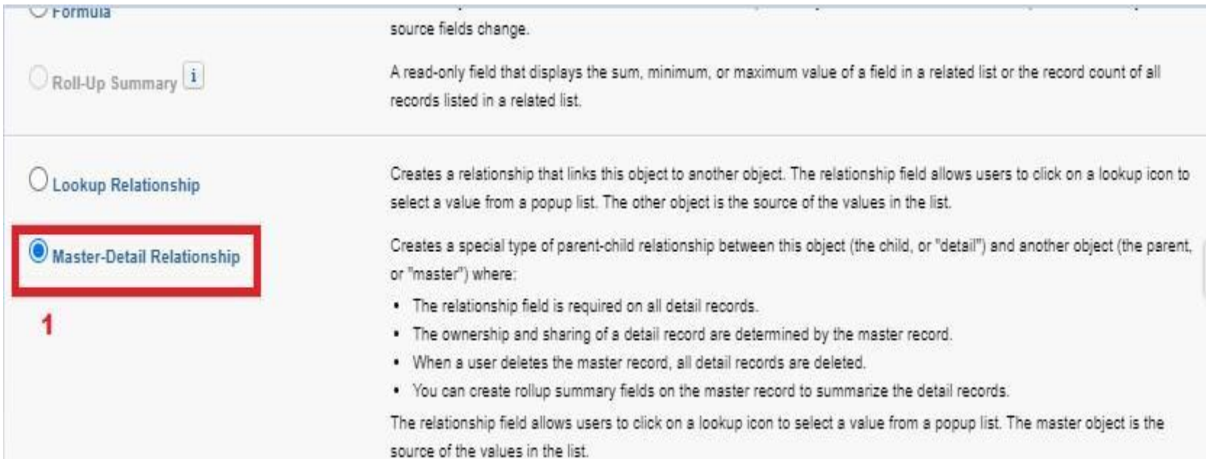
Select Master-Detail Relationship as the Data Type and click Next.

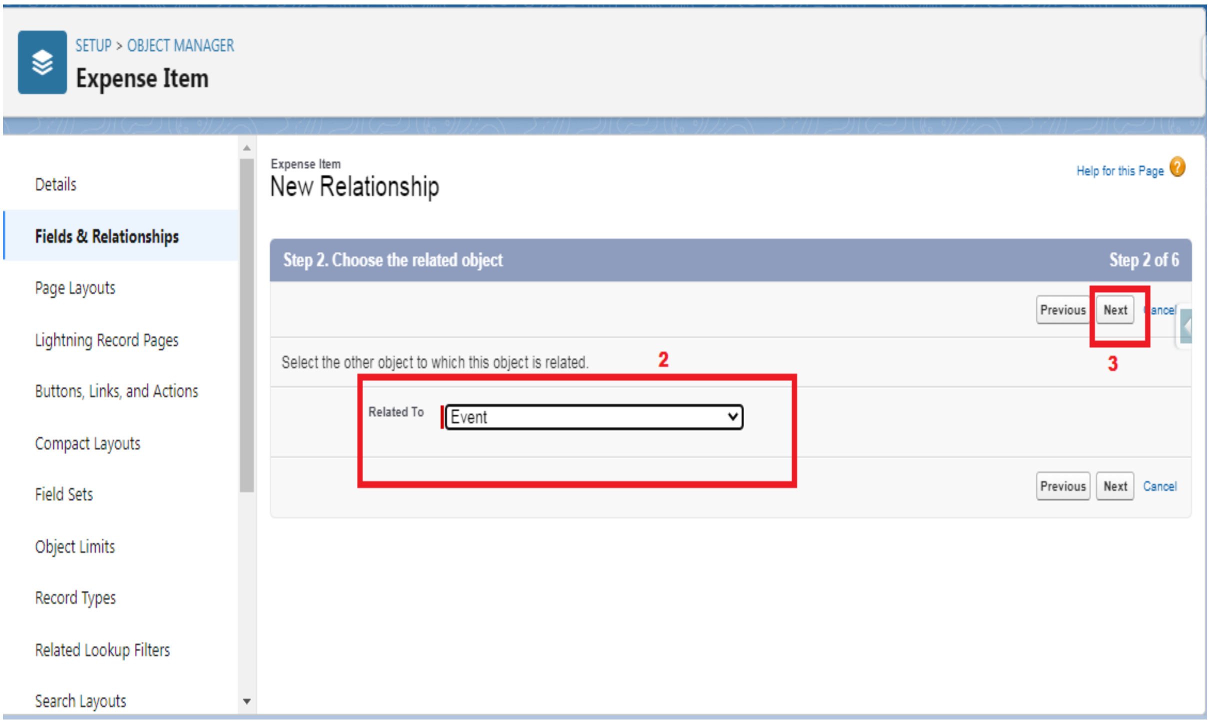
For Related to, enter Expense.

Click Next.

For Field Label, enter Expense.

Click Next, Next, Next and Save.





Roll Up Summary Fields On Expense Object

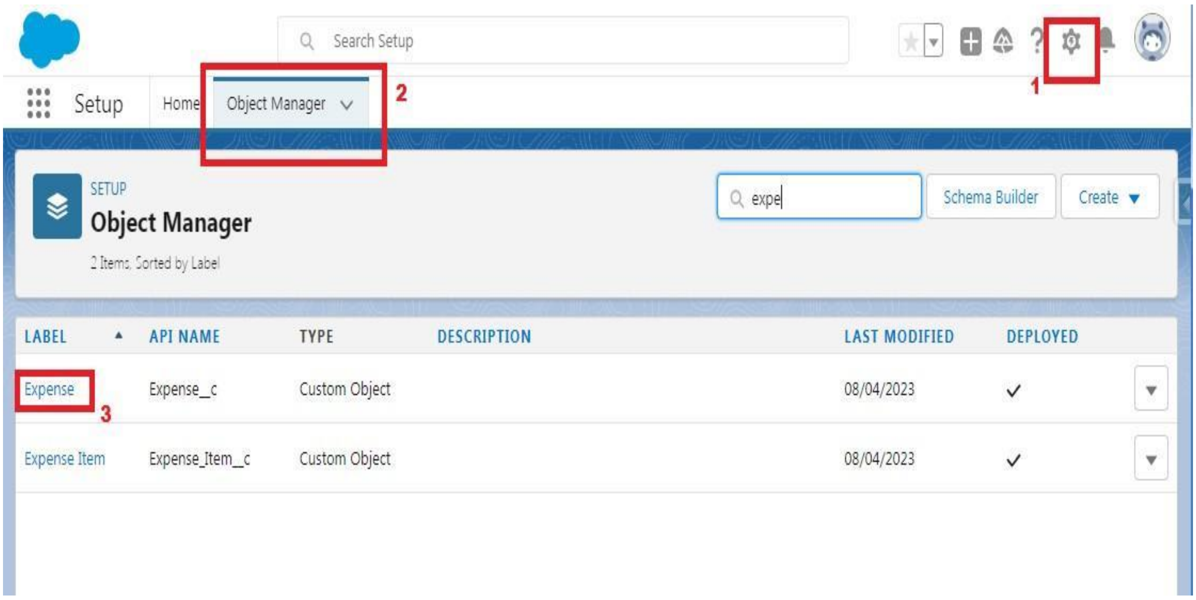
Let’s create Roll-up summary fields on Expense Object to calculate the expense

1. Click the gear icon Select Setup, This launches Setup in a new tab.
2. click Object Manager
3. Select Expense.
4. Click Fields & Relationships
5. Click New.

Select the Roll-up summary field as the data type
Enter the field label as Total Expense

Click Next
Then select the master object summarized as Expense items

Select Sum as roll-up and Field to aggregate Amount then click Next, Next and save.


Search Setup
Setup
Home
Object Manager
1
2
SETUP
Object Manager
2 Items, Sorted by Label
expe
Schema Builder
Create
LABEL
API NAME
TYPE
DESCRIPTION
LAST MODIFIED
DEPLOYED
Expense
3
Expense_c
Custom Object
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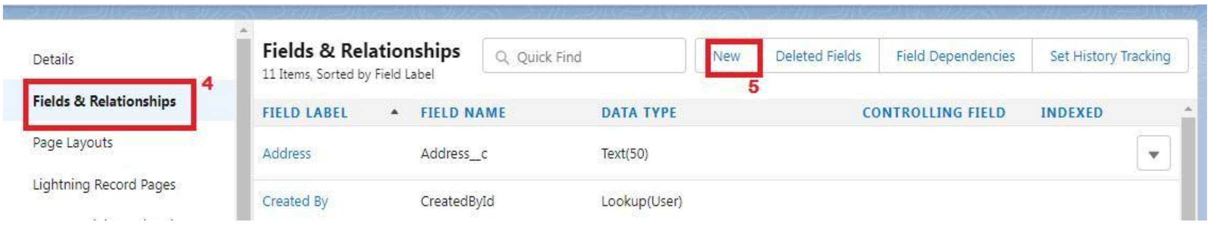
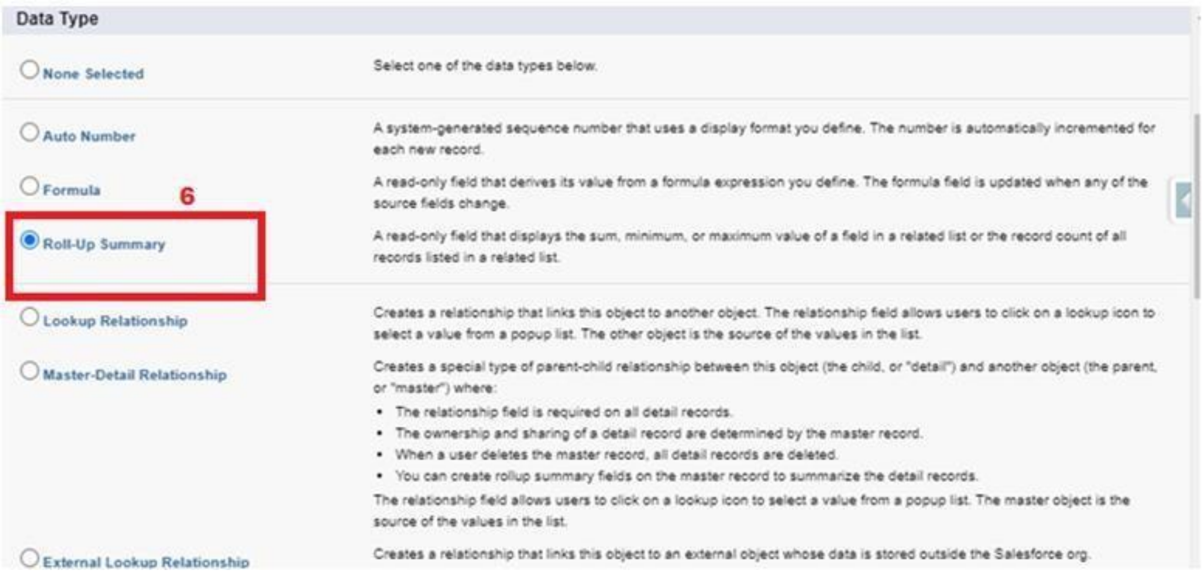
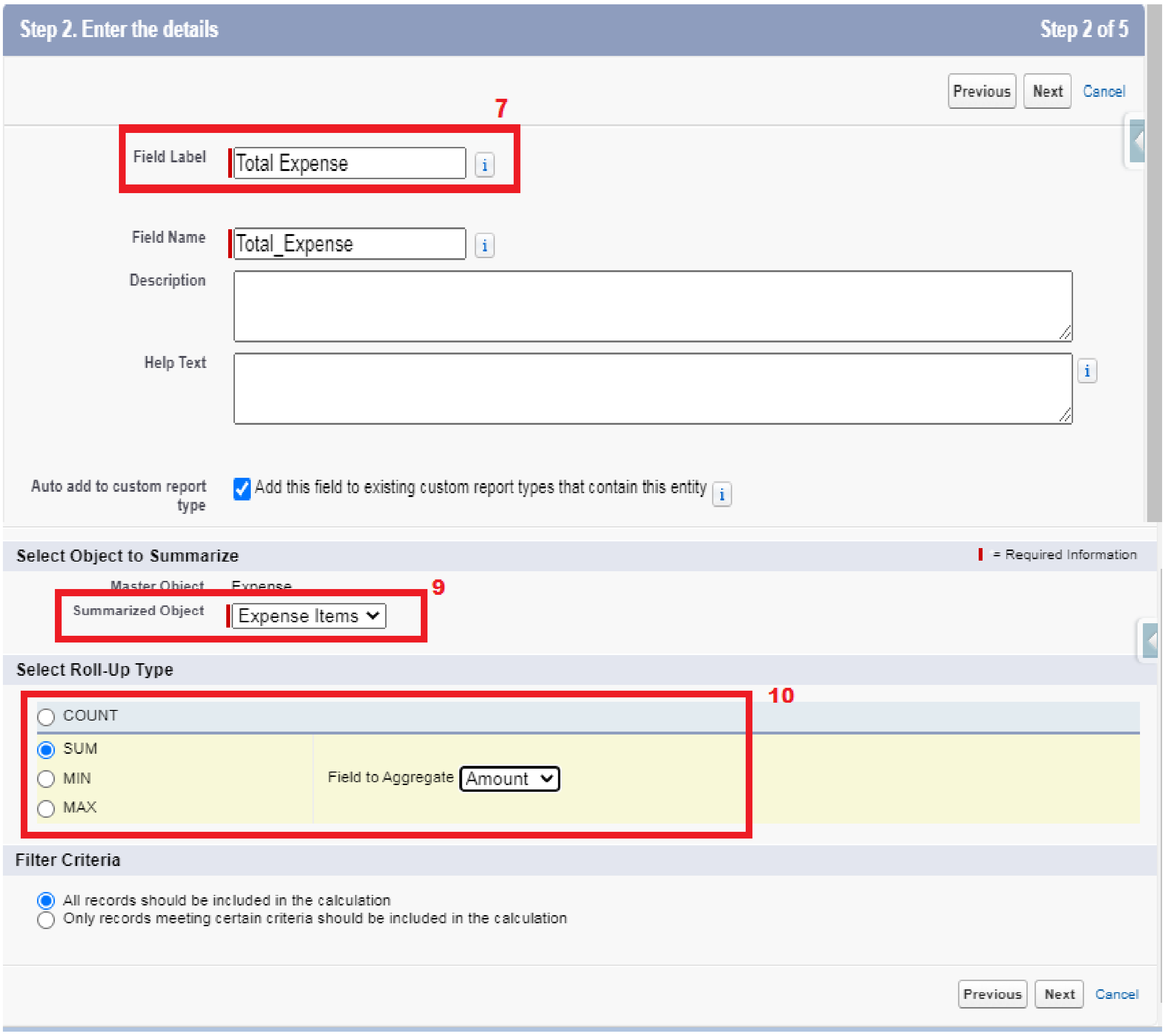
Expense Item
Expense_Item_c
Custom Object
08/04/2023


Details
Fields & Relationships
4
Page Layouts
Lightning Record Pages
Fields & Relationships
11 Items, Sorted by Field Label
Quick Find
New
5
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Address
Address__c
Text(50)
Created By
CreatedById
Lookup(User)


Data Type
None Selected
Select one of the data types below.
Auto Number
A system-generated sequence number that uses a display format you define. The number is automatically incremented for each new record.
Formula
6
A read-only field that derives its value from a formula expression you define. The formula field is updated when any of the source fields change.
Roll-Up Summary
A read-only field that displays the sum, minimum, or maximum value of a field in a related list or the record count of all records listed in a related list.
Lookup Relationship
Creates a relationship that links this object to another object. The relationship field allows users to click on a lookup icon to select a value from a popup list. The other object is the source of the values in the list.
Master-Detail Relationship
Creates a special type of parent-child relationship between this object (the child, or "detail") and another object (the parent, or "master") where:
The relationship field is required on all detail records.
The ownership and sharing of a detail record are determined by the master record.
When a user deletes the master record, all detail records are deleted.
You can create rollup summary fields on the master record to summarize the detail records.
The relationship field allows users to click on a lookup icon to select a value from a popup list. The master object is the source of the values in the list.
External Lookup Relationship
Creates a relationship that links this object to an external object whose data is stored outside the Salesforce org.



Pick List Field

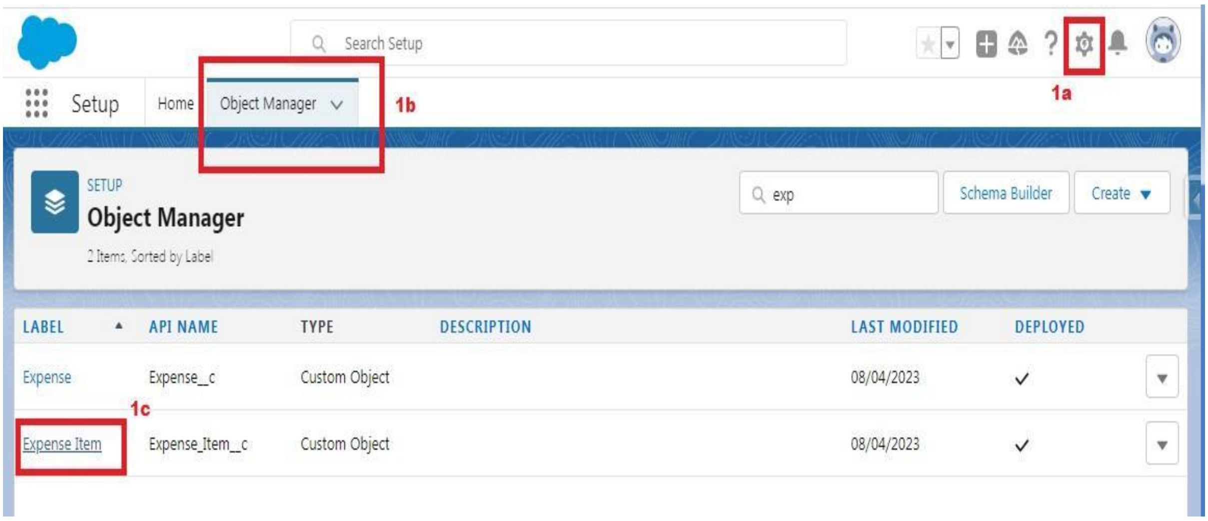
Let’s create a Pick-List field:

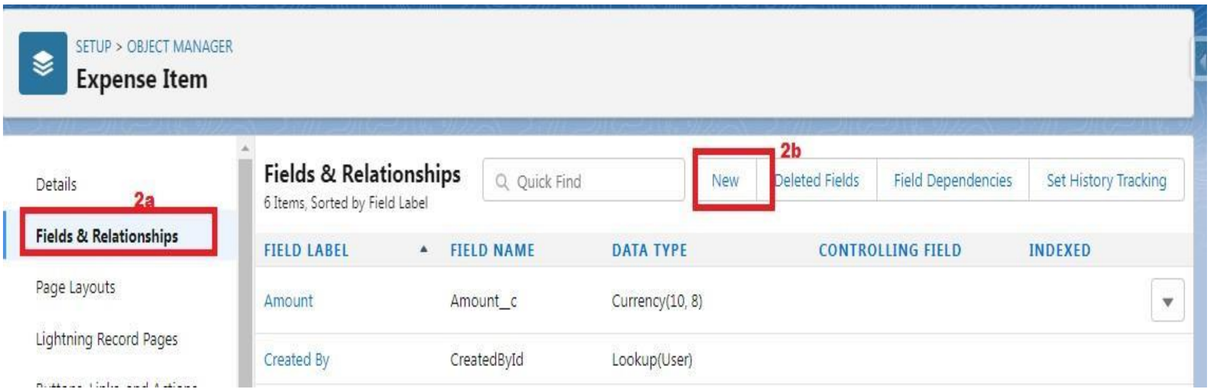
1) From Setup, click Object Manager and select Expense Item.
2)Click Fields & Relationships, then New.
3)Select Picklist as the Data Type and click Next.
4)For Field Label enter Expense Type

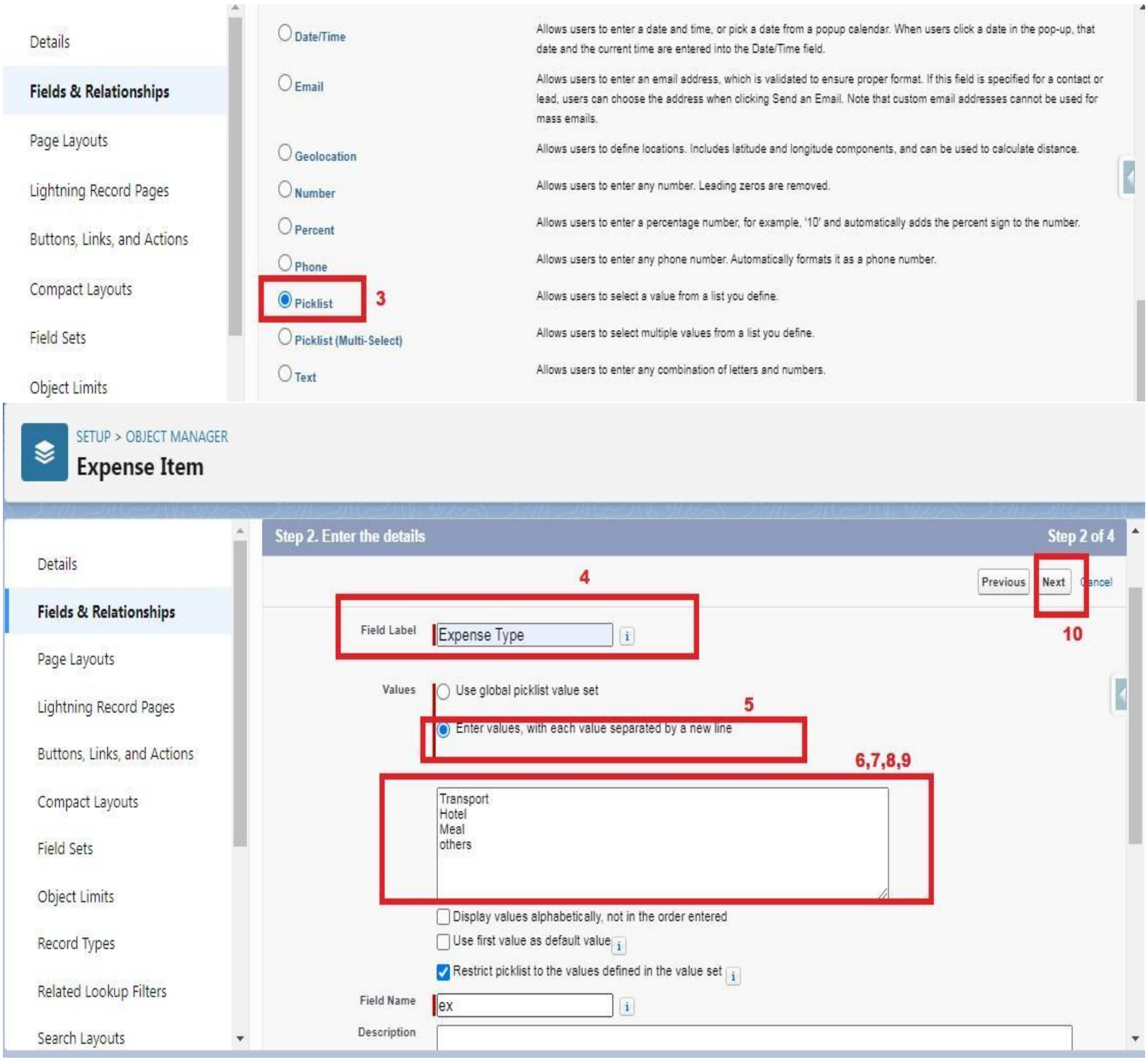
5)Select Enter values, with each value separated by a new line, and enter these values:

- Hotel
- Meal
- others

Click Next, Next, then Save & New







Import Departments

NOTE- Before creating the application download this zip file from URL given below https://developer.salesforce.com/files/TravelAppWorkshopFiles.zip

Data Import lets you upload data from external sources and combine it with data you collect via Analytics. You can then use Analytics to organize and analyze all of your data in ways that better reflect your business.

The Data Import Wizard is a Tool that makes it easy to import data for many standard Salesforce objects, including accounts, contacts, leads, solutions, campaign members, and person accounts. You can also import data for custom objects.

In order to complete this milestone, you need to create a CSV file and give them the data given in the picture below. After that from these CSV files we will import data for Department & Travel Approval (Custom Object)

1.CSV file Name- Department_CSV

	A	B
1	Department Name	Department code
2	Office of Communications and Media	O001
3	Disability Determination Bureau	D001
4	Division of Disability and Rehabilitative Services	D002
5	Technology	T001

Users

A user is anyone who logs into Salesforce.

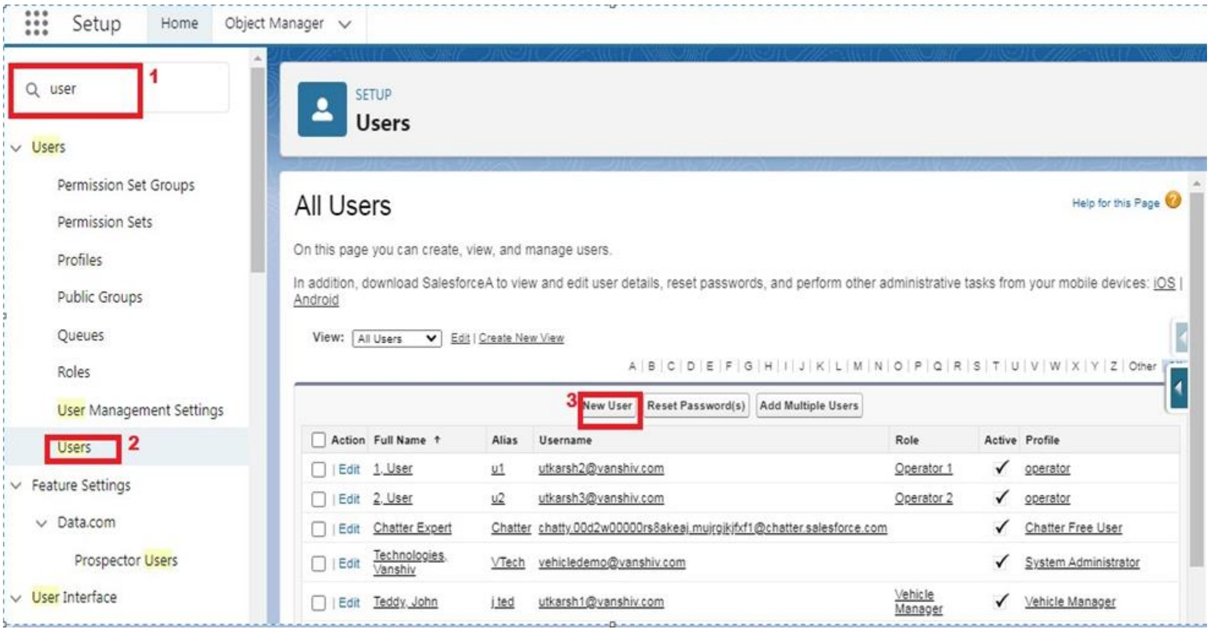
Users are employees at your company, such as sales reps, managers, and IT specialists, who need access to the company's records. Every user in Salesforce has a user account.

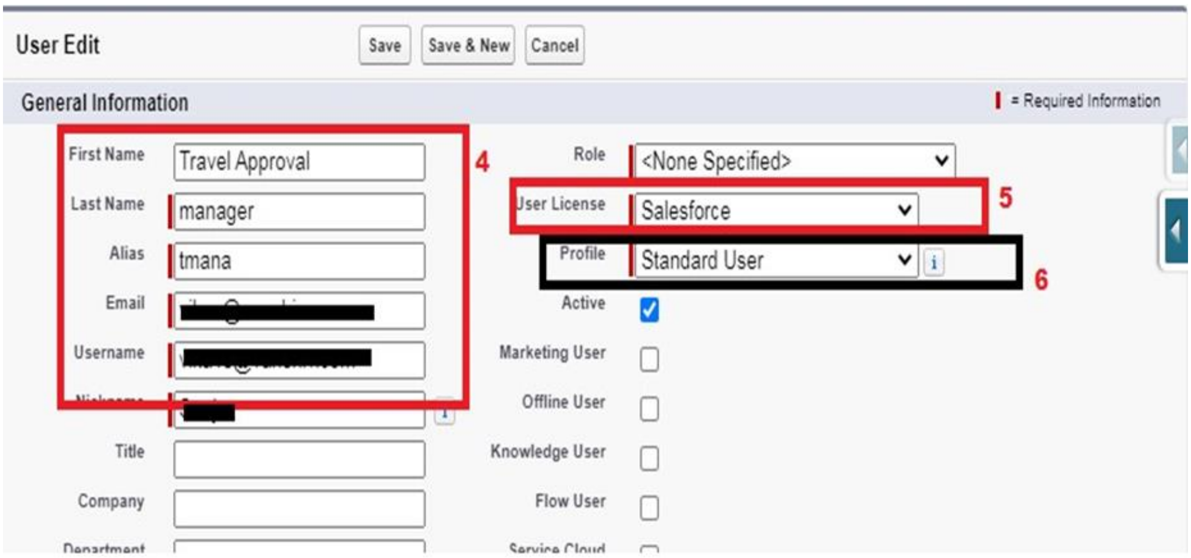
creating A User In Salesforce

1.From Setup, in the Quick Find box, enter Users.
2.Select Users.
3.Click New User.
4.Enter the First Name Travel Approval and Last Name manager 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.

NOTE- *In the Developer edition Salesforce license can only be used by 2 Users at a time in Dev Org, 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.





Use Customization

Customization refers to custom software development and coding to add robust features to your CRM platform. These features can be integrated with your business to have a scalable impact.

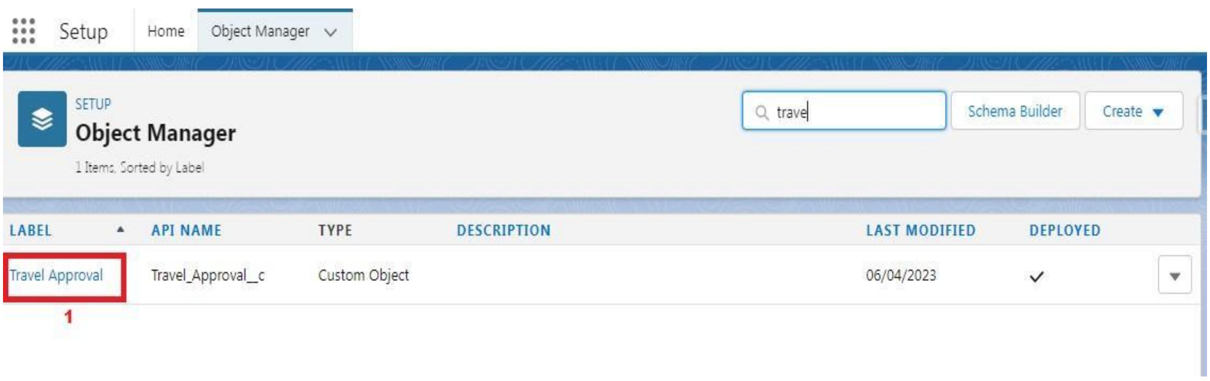
Add Business Logic To Travel App

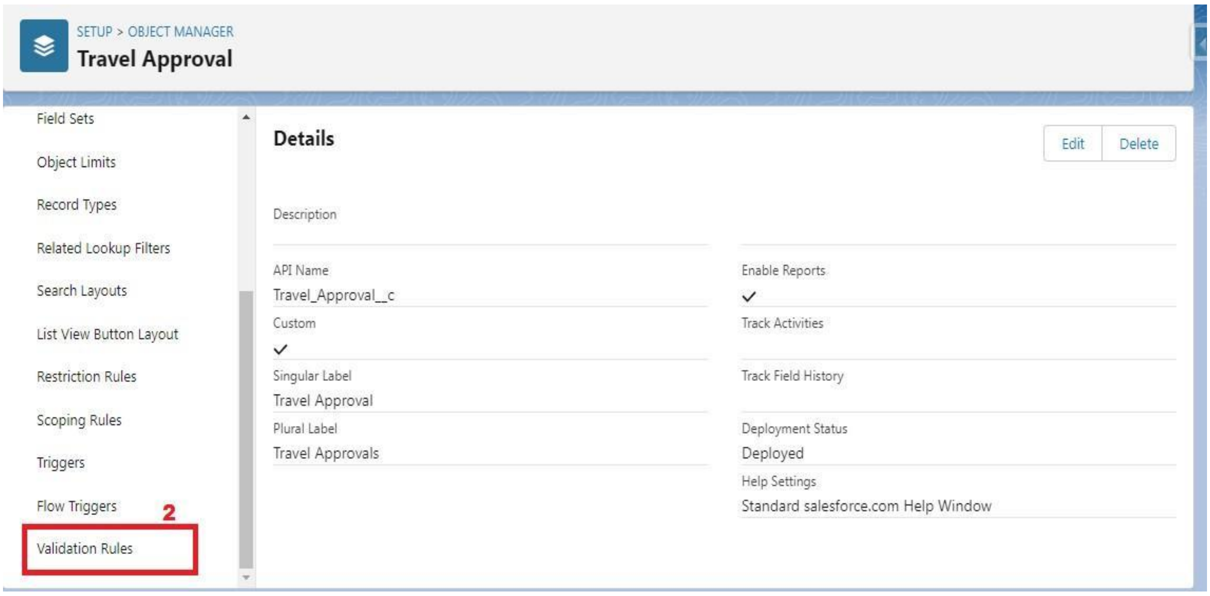
Validation Rule - It can contain a formula or expression that evaluates the data in one or more fields & returns a value of true or false. Validation Rules also include an error message to display to the user when the rule returns a value true due to an invalid value/data.

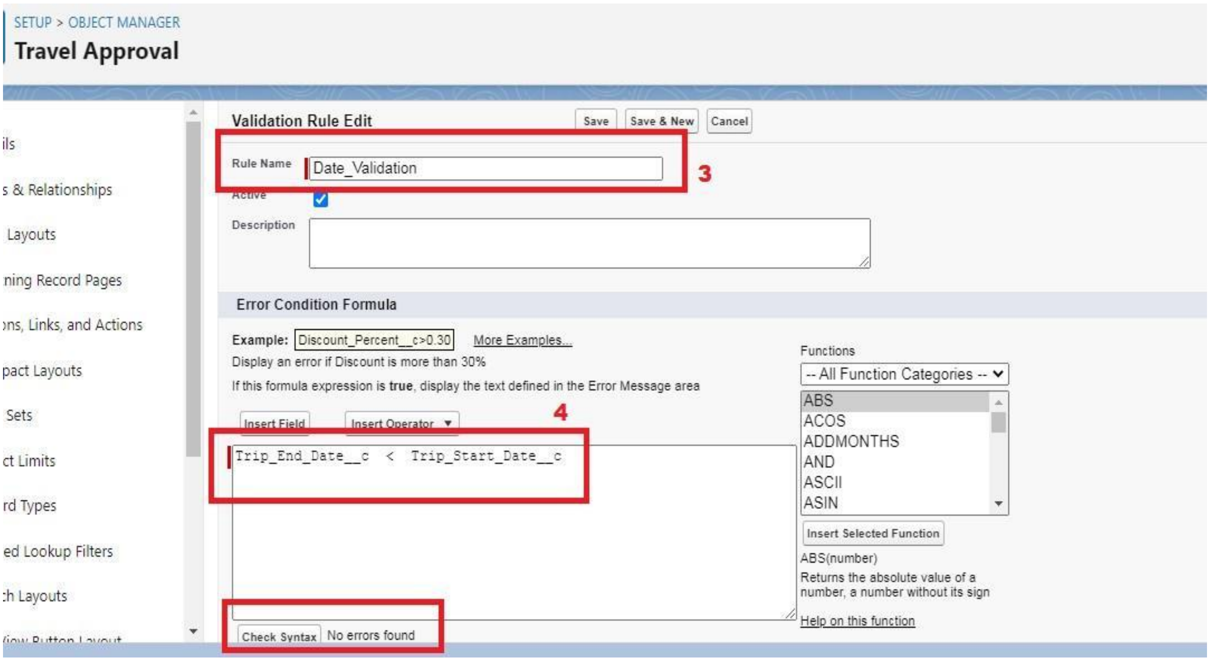
Create Validation Rule

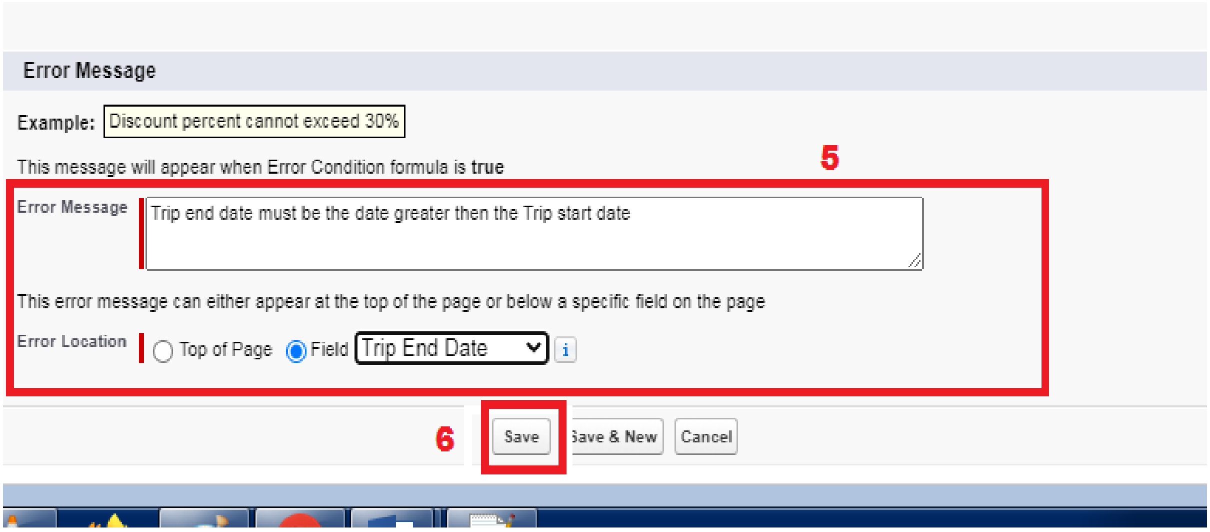
Search for the travel approval object from the object manager and open the object.
1)Click on validation rules and click new on the left corner
2)Give your rule name Date _Validation and make sure that the rule is set to active.
3)In the error condition formula enter Trip_End_Date c < Trip_Start_Date c
NOTE- Make sure that there is no syntax error after you input this error condition

Give the Error message – "Trip end date must be the date greater than the Trip start date" &
For error location select the field and pick the Trip end date as the location for error.
Click save




SETUP > OBJECT MANAGER
Travel Approval
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Triggers
Flow Triggers
2
Validation Rules
Details
Edit
Delete
Description
API Name
Travel_Approval__c
Custom
Singular Label
Travel Approval
Plural Label
Travel Approvals
Enable Reports
Track Activities
Track Field History
Deployment Status
Deployed
Help Settings
Standard salesforce.com Help Window


SETUP > OBJECT MANAGER
Travel Approval
Validation Rule Edit
Save
Save & New
Cancel
Rule Name
Date_Validation
3
Active
Description
Error Condition Formula
Example: Discount_Percent__c>0.30
More Examples...
Display an error if Discount is more than 30%
If this formula expression is true, display the text defined in the Error Message area
Insert Field
Insert Operator
4
Trip_End_Date__c < Trip_Start_Date__c
Check Syntax
No errors found
Functions
-- All Function Categories --
ABS
ACOS
ADDMONTHS
AND
ASCII
ASIN
Insert Selected Function
ABS(number)
Returns the absolute value of a number, a number without its sign
Help on this function



Create Formulae Fields

Create Formula Fields
1)First, we need to upload a zip file to your Salesforce environment that contains all the images we use. You should have 2)a file titled StatusImages.zip.
3)Click the setup
4)Click Static Resources in Quick Find & Click New.
5)Enter the following values for your static resource

Parameter	Value
Name	StatusImages
File	StatusImages.zip
Cache-Control	Private

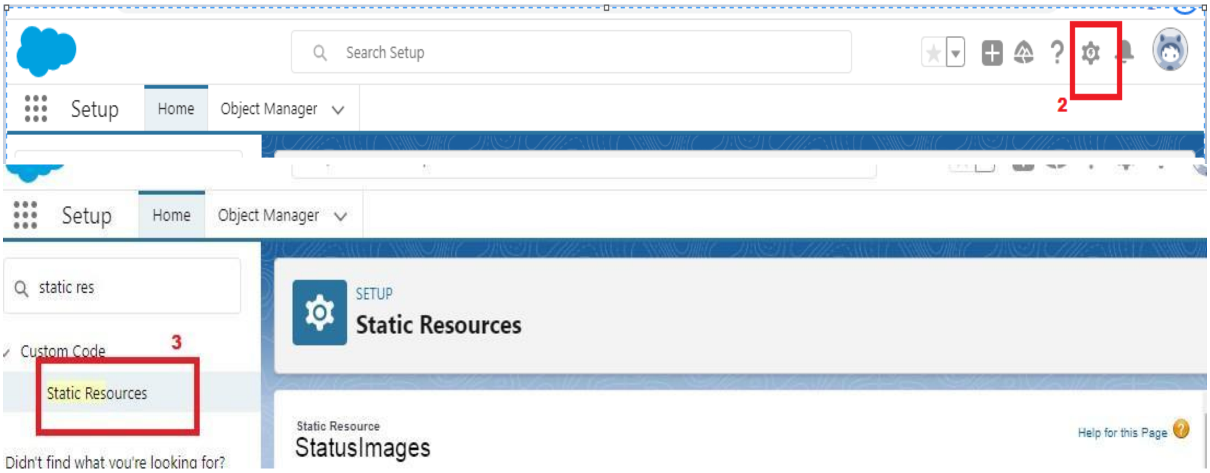
Now select the travel approval object.
Select Fields & Relationships, Click New
Select Formula data type, and Click Next.
Enter the following values:
Field Label: Status Indicator

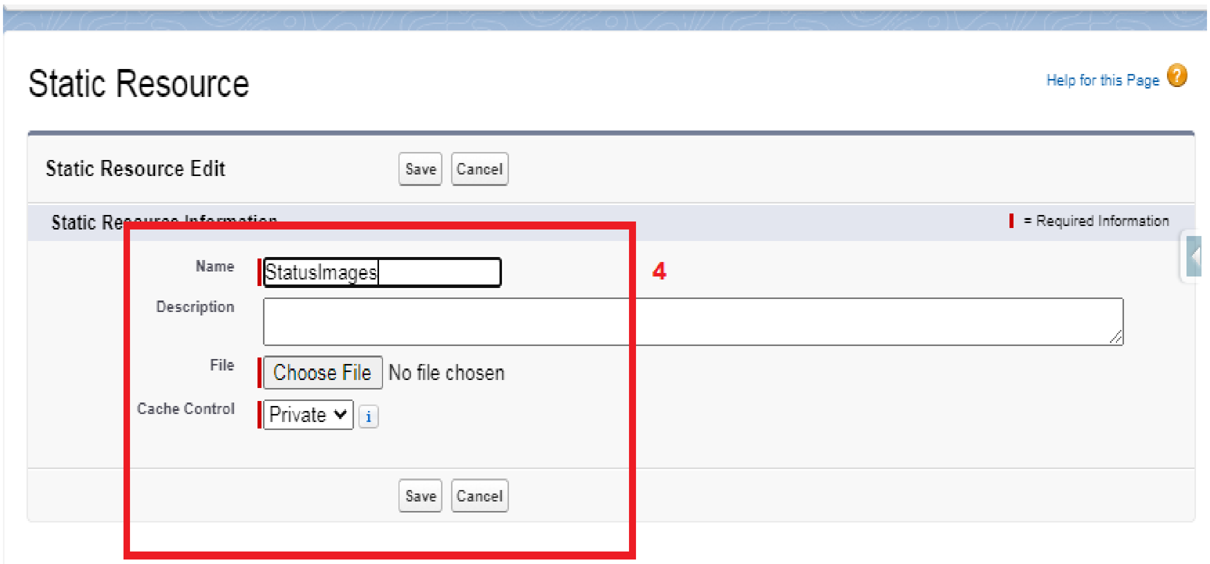
Field Name: Status_Indicator (This automatically gets sent when you tab out of the Field Label field)□
Formula Return Type: Tex

Click next & Copy and paste the following formula into the formula editor.

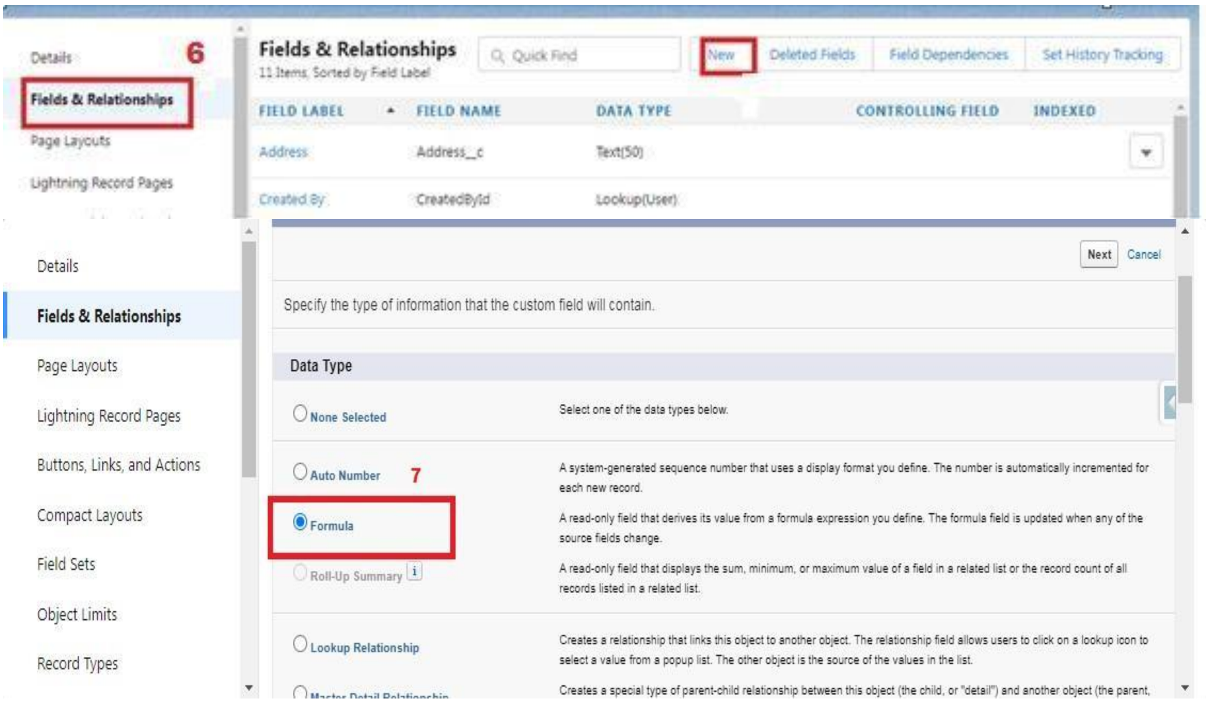
IF(ISPICKVAL(Status c c, 'Approved'),
IMAGE("/resource/StatusImages/thumbs-up.png", "Accepted", 20, 20),
IF (ISPICKVAL(Status c c, 'Rejected'),
IMAGE("/resource/StatusImages/thumbs-down.png", "Rejected", 20, 20),
IMAGE("/resource/StatusImages/draft.png", "In-Process", 20, 20)))

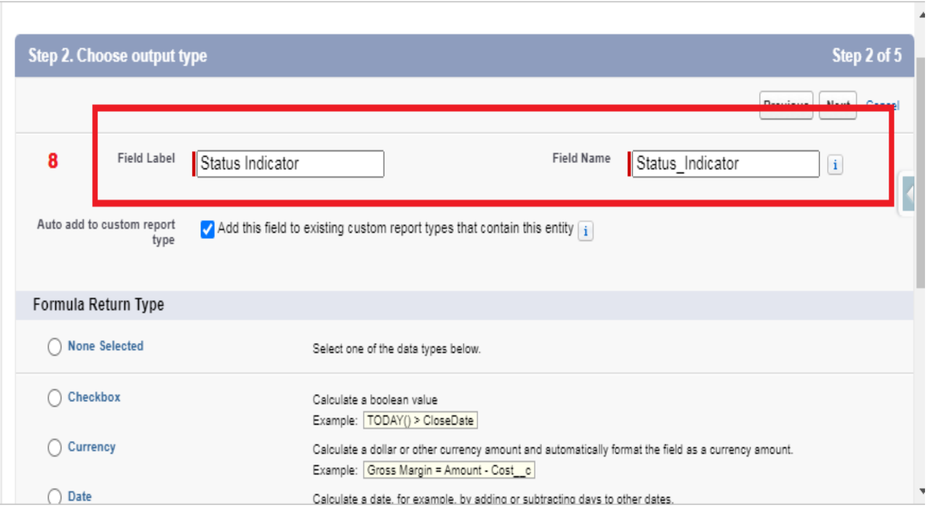
Click Next, Next, Save.




Static Resource
Help for this Page
Static Resource Edit
Save
Cancel
Static Resource Information
= Required Information
Name
StatusImages
4
Description
File
Choose File
No file chosen
Cache Control
Private
Save
Cancel


Setup
Home
Object Manager
SETUP
Object Manager
1 Items, Sorted by Label
travel
Schema Builder
Create
LABEL
API NAME
TYPE
DESCRIPTION
LAST MODIFIED
DEPLOYED
Travel Approval
Travel_Approval__c
Custom Object
06/04/2023
5


Details
6
Fields & Relationships
Page Layouts
Lightning Record Pages
Fields & Relationships
11 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Address
Address__c
Text(50)
Created By
CreatedById
Lookup(User)
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Next
Cancel
Specify the type of information that the custom field will contain.
Data Type
None Selected
Select one of the data types below.
Auto Number
7
A system-generated sequence number that uses a display format you define. The number is automatically incremented for each new record.
Formula
A read-only field that derives its value from a formula expression you define. The formula field is updated when any of the source fields change.
Roll-Up Summary
A read-only field that displays the sum, minimum, or maximum value of a field in a related list or the record count of all records listed in a related list.
Lookup Relationship
Creates a relationship that links this object to another object. The relationship field allows users to click on a lookup icon to select a value from a popup list. The other object is the source of the values in the list.
Creates a special type of parent-child relationship between this object (the child, or "detail") and another object (the parent,

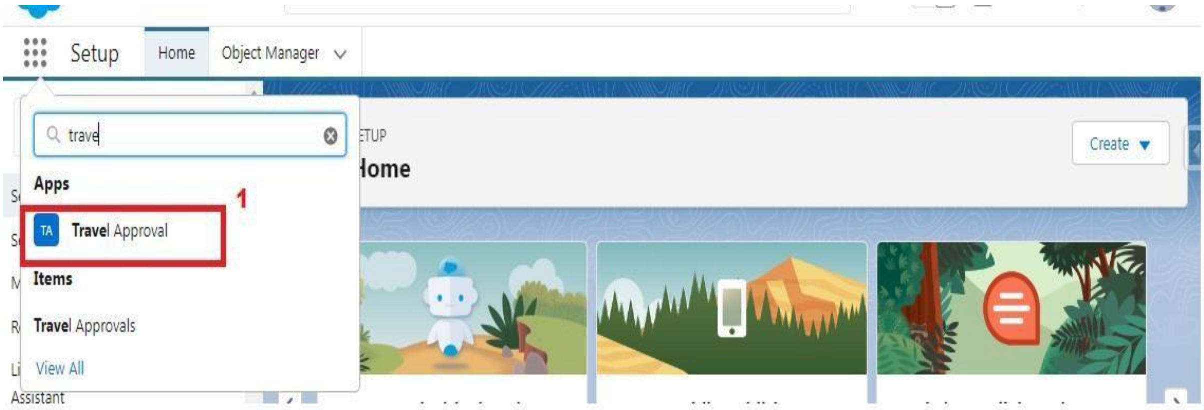


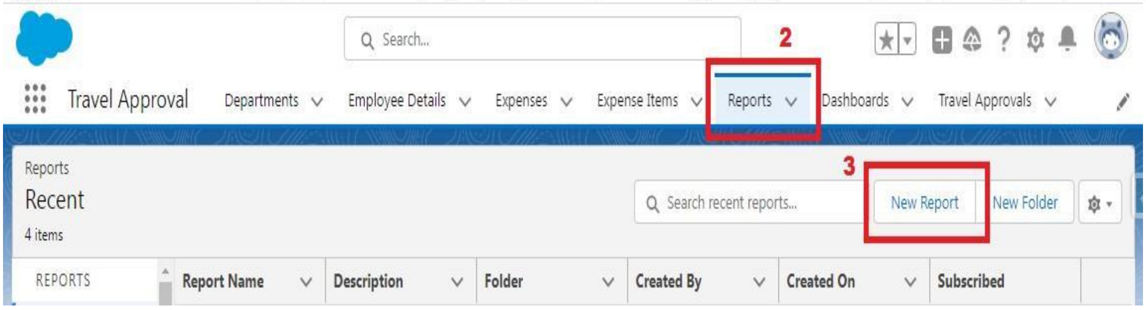
Create Record

Click App Launcher and select Travel Approval App

1)Click reports tab
2)Click New Report.
3)Click the report type as Travel approval with Departments
Click Start report.
4)Customize your report, in group rows select - Department Name
5)Click refresh
6)Click save and run

7)Give report name – Travel Approval Report
8)Click Save





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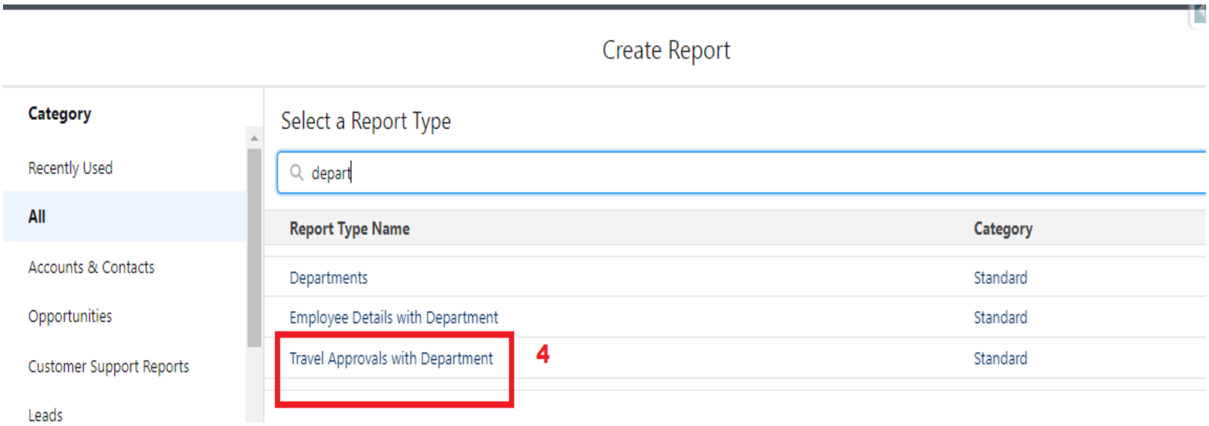
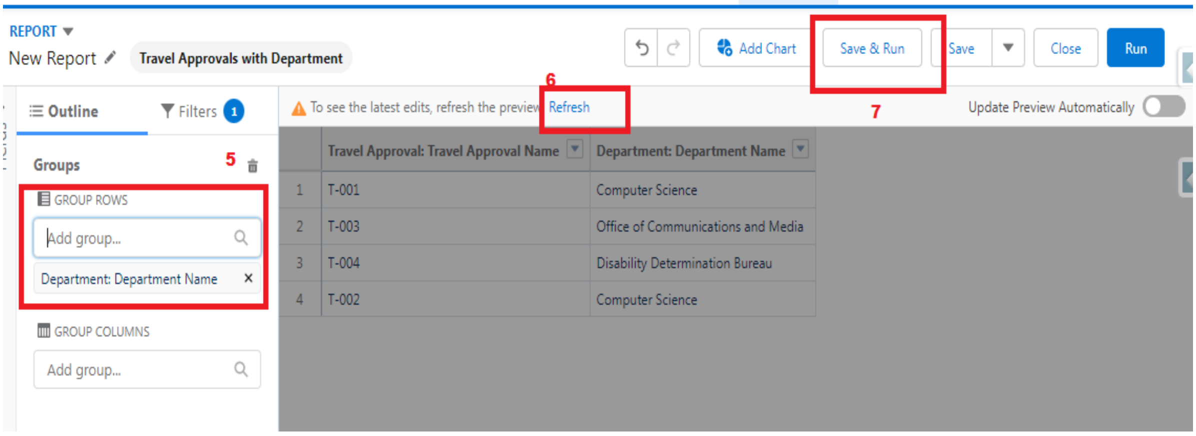
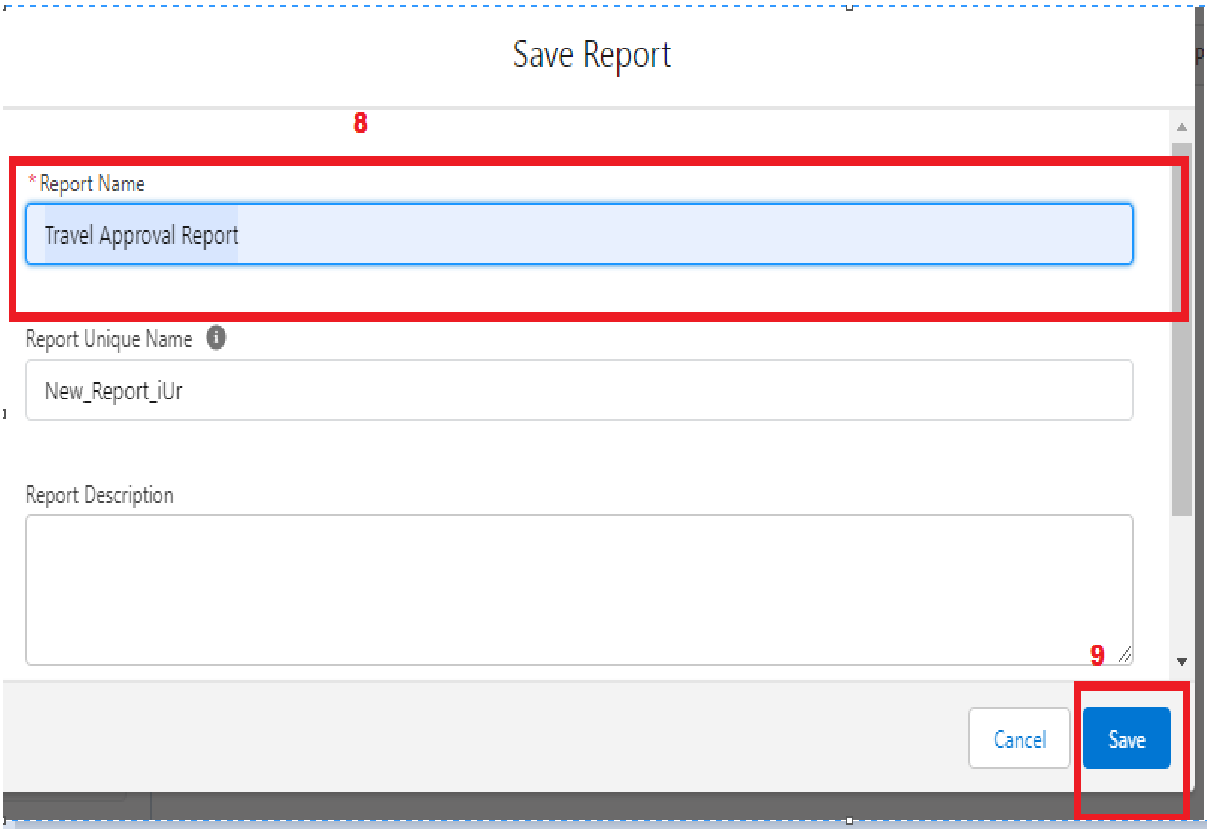


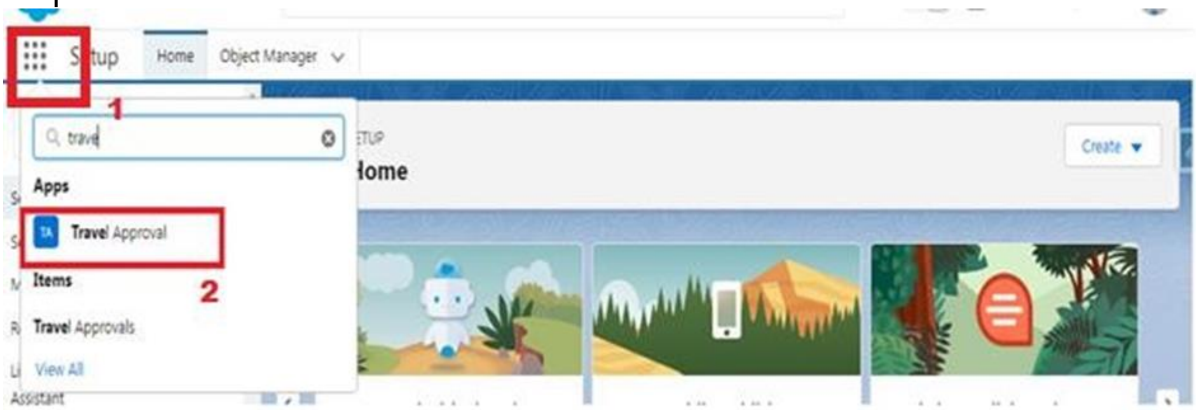


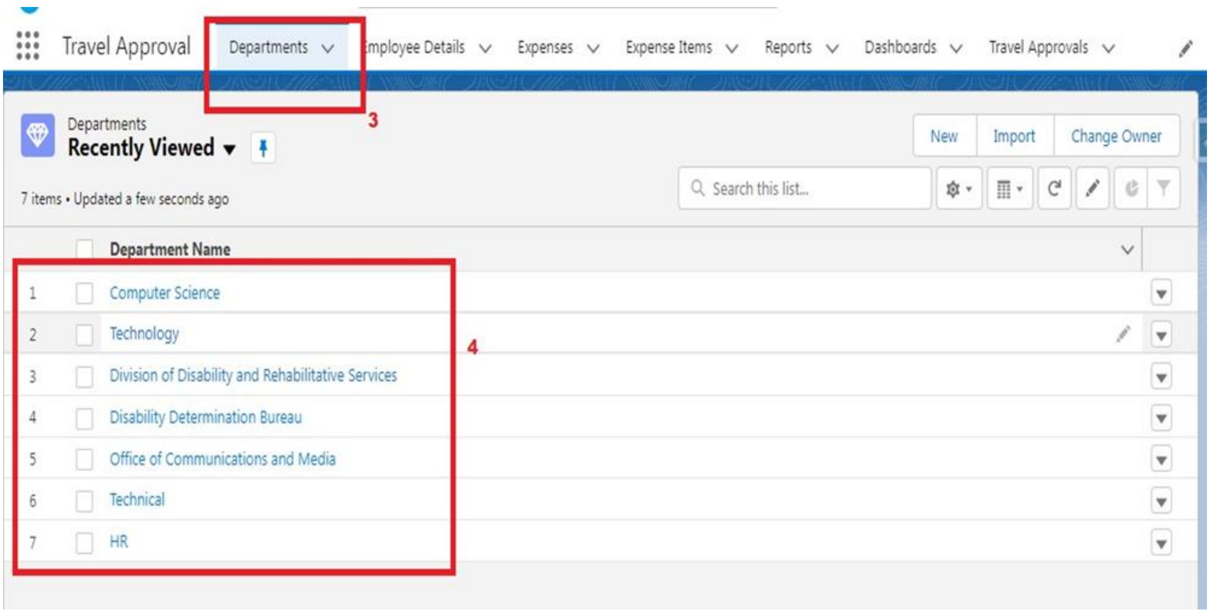


View Record

View Record (Department):
1.Click on App Launcher on left side of screen.
2.Search Travel Approval & click on it.
3.Click on Department Tab.
4.Click on any record name. you can see the details of the

Department



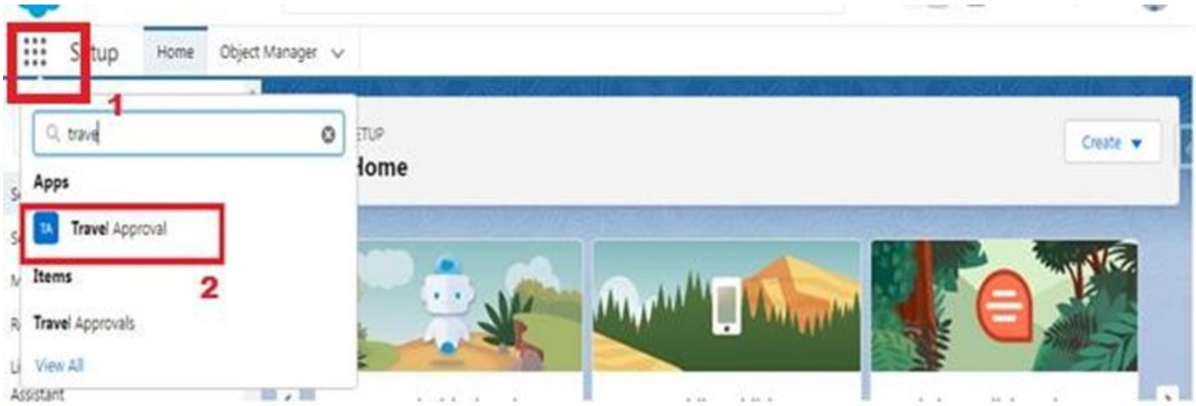


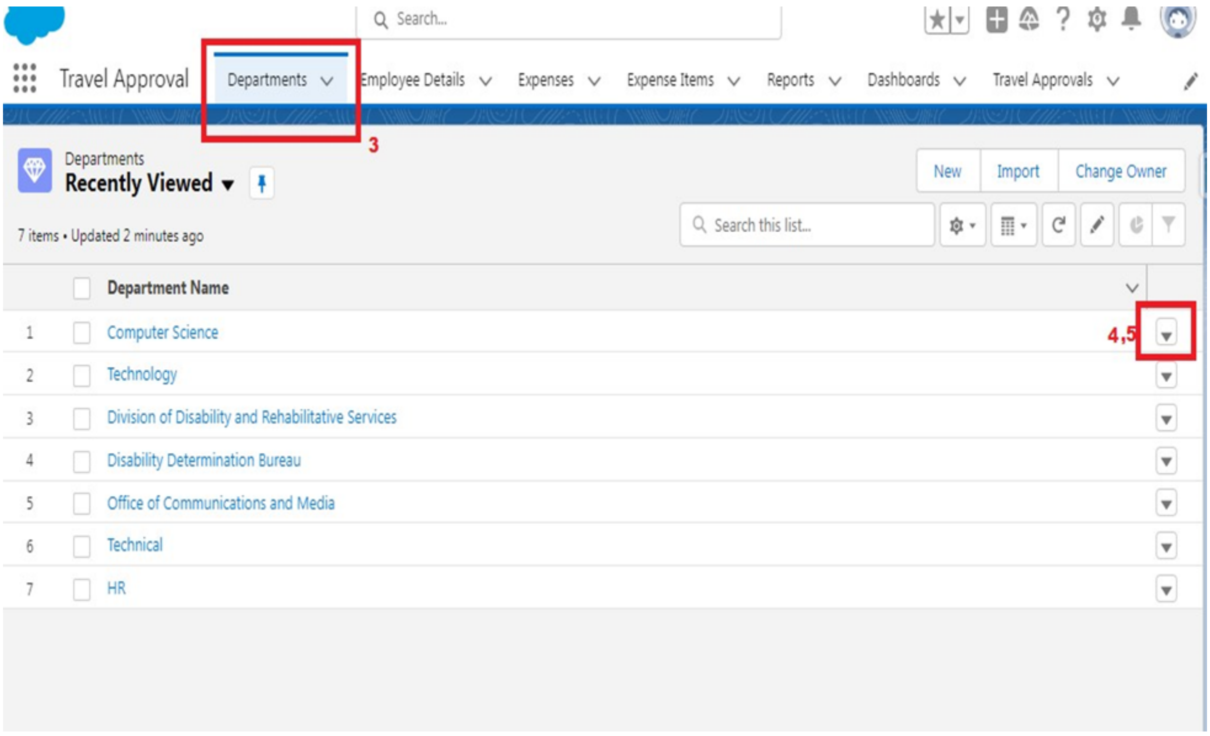
Delete Record

Delete Record (Department):

1. Click on App Launcher on the left side of the screen.
2. Search Travel Approval & click on it.
3. Click on Department Tab.
4. Click on Arrow at the right-hand side on that particular record.

5. Click delete and delete again.





What Are 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 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.
4.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 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 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.

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

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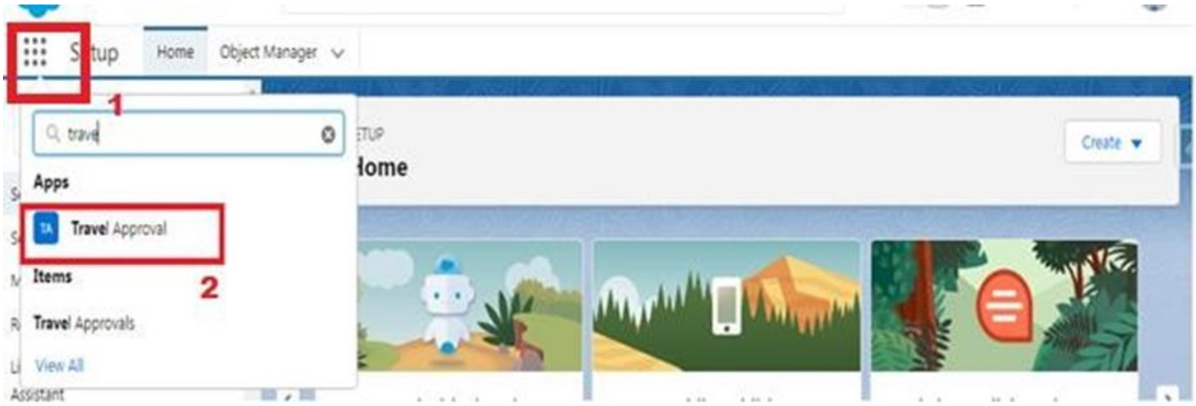
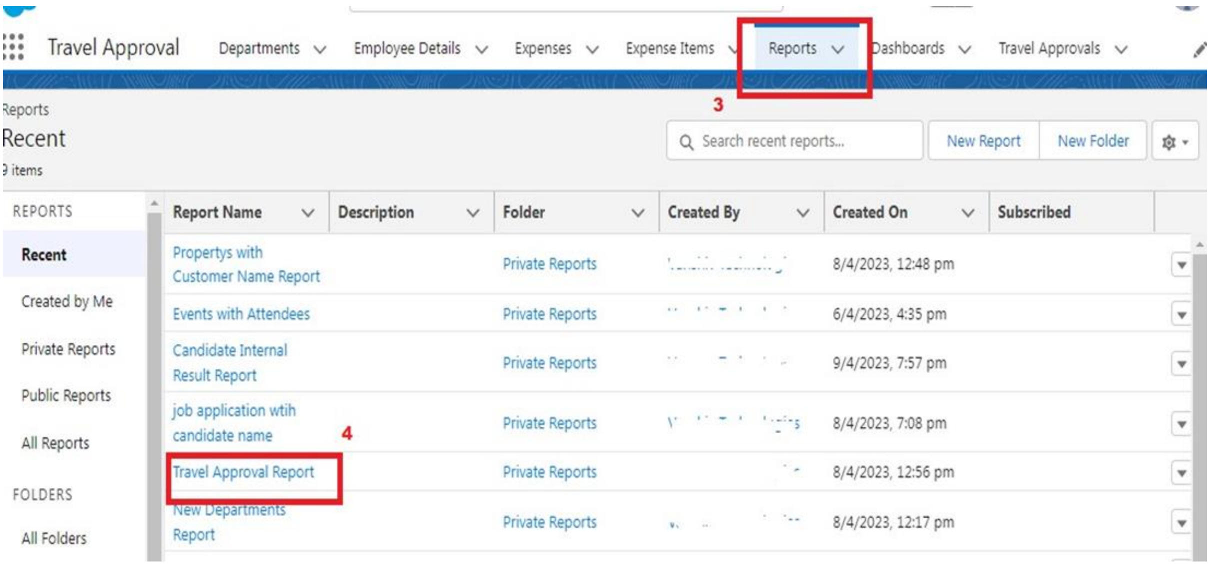
View Report

1.Click on App Launcher on left side of screen.
2.Search Travel Approval App & click on it.
3.Click on Reports Tab.
4.Click on Travel Approval Report and see records.



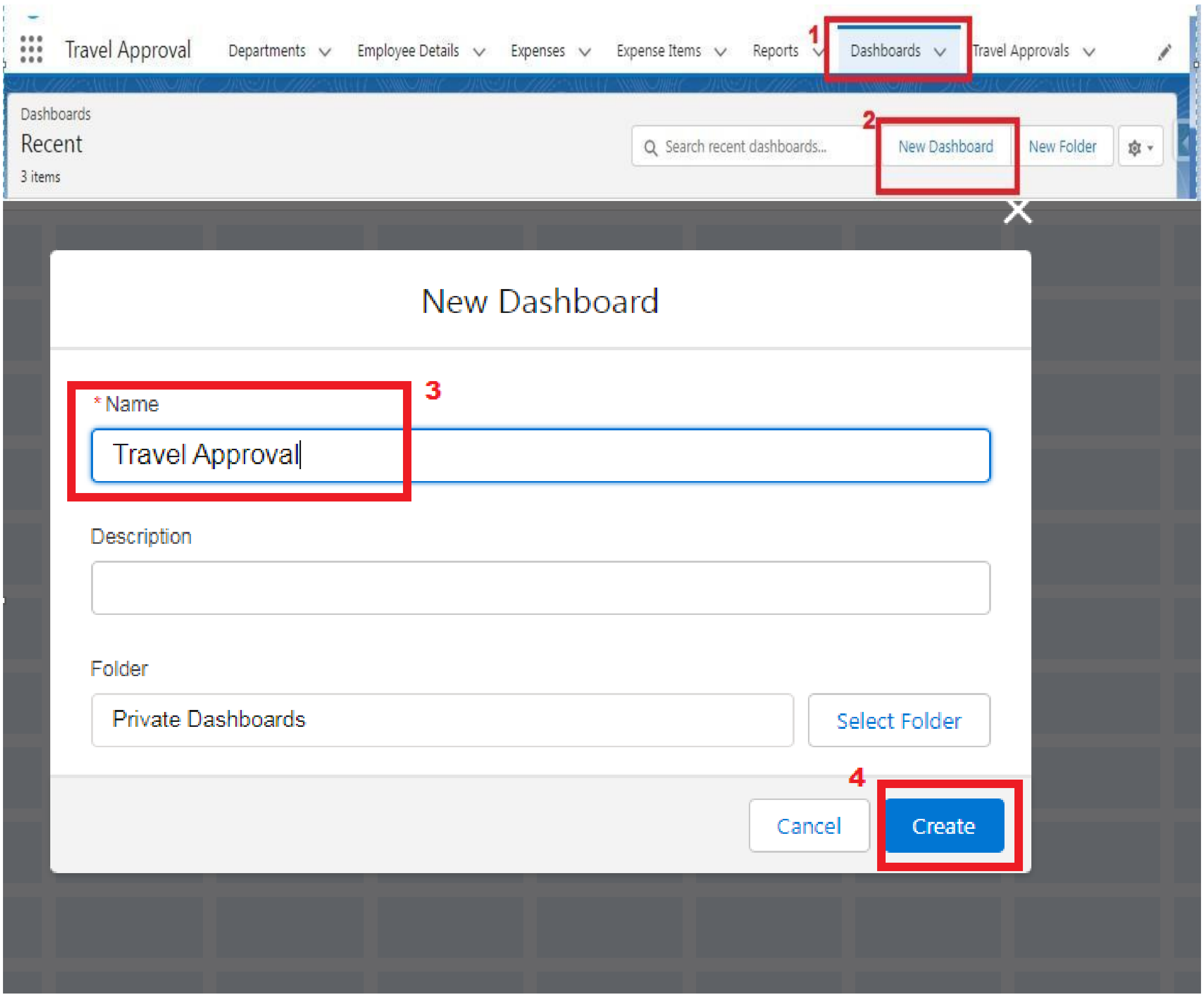


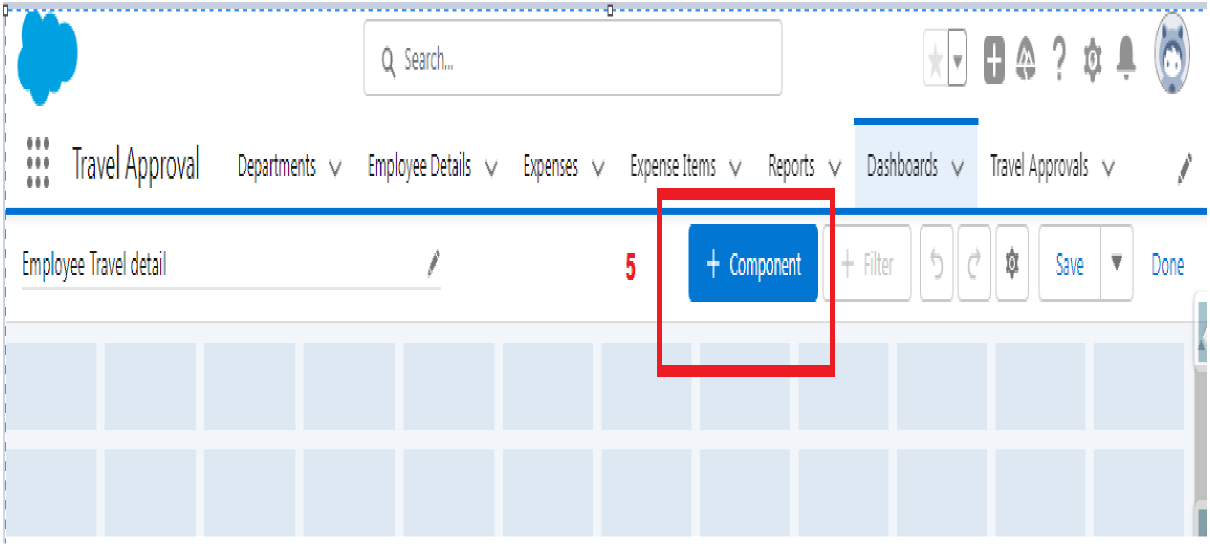
Dashboards

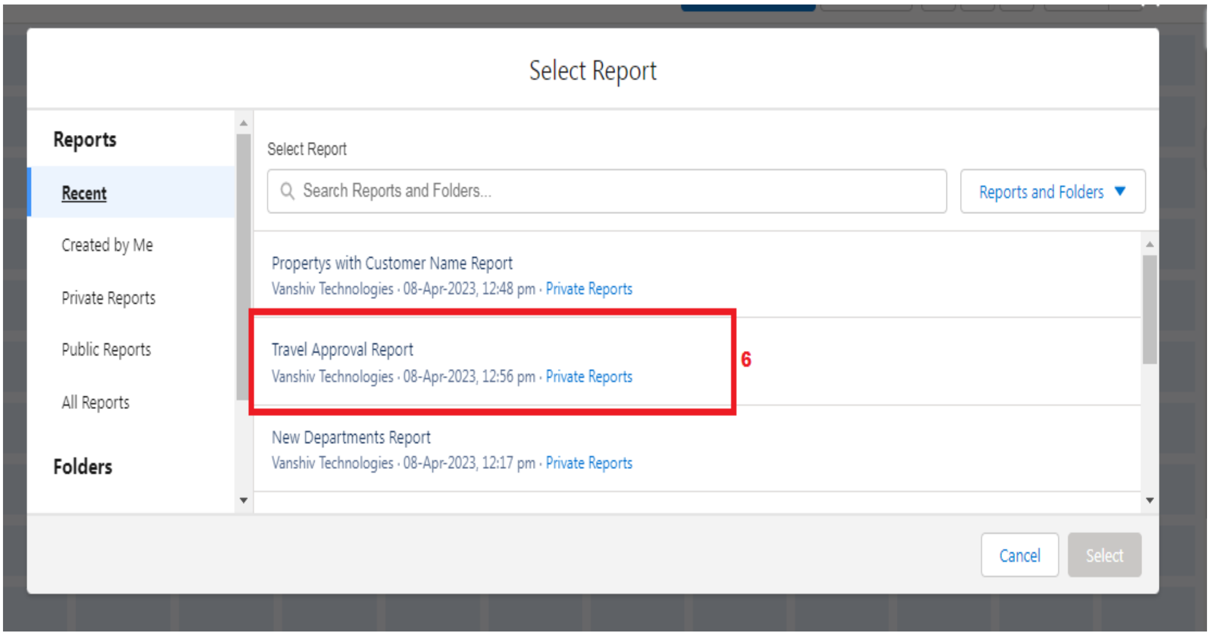
Dashboards let you curate data from reports using charts, tables, and metrics. If your colleagues need more information, then they're able to view your dashboard's data-supplying reports. Dashboard filters make it easy for users to apply different data perspectives to a single dashboard.

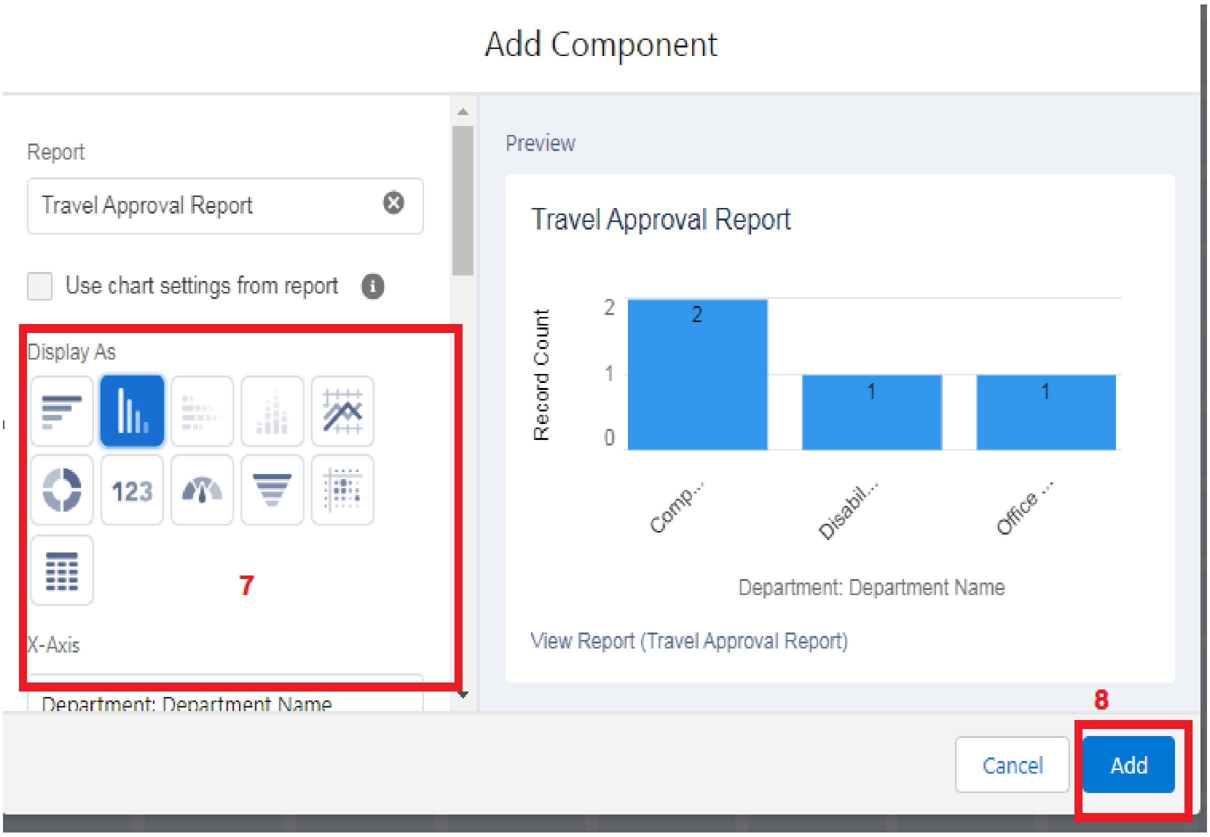
Create Dashboard

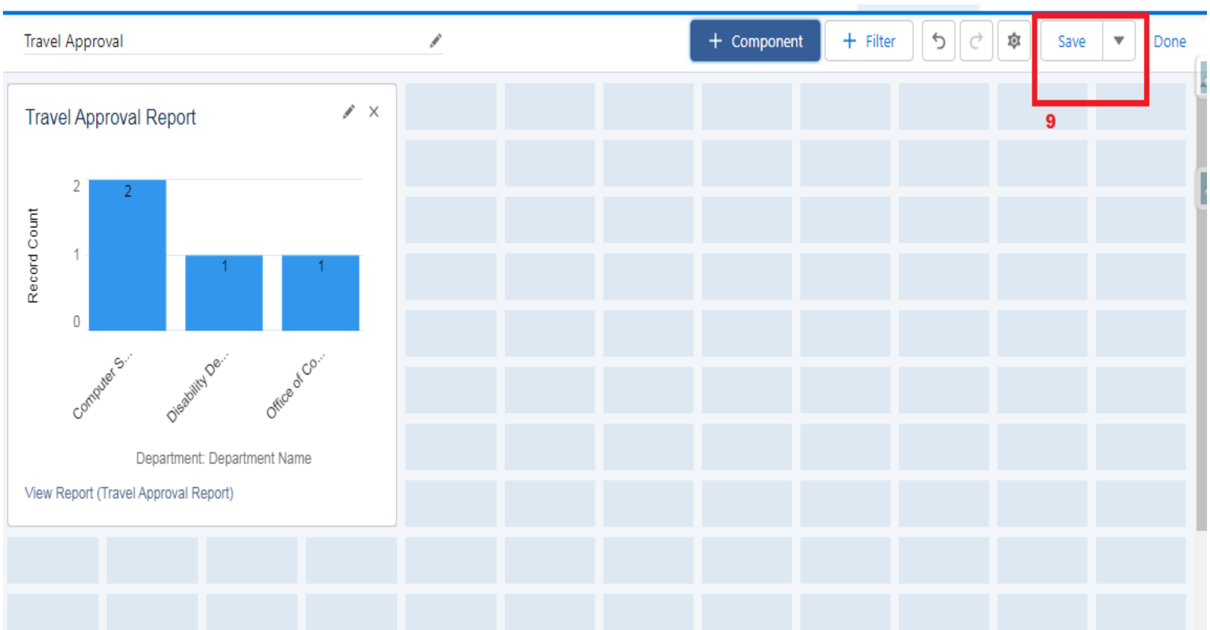
Click on the Dashboards tab from the travel approval application,
Click on a new dashboard
Give name- Travel Approval
Click Create
Give your dashboard a name and click on +component,
select the Travel Approval Report that you created.
For the data visualization select any of the chart, table etc as your wish.
Click add
Click save.




Search...
Travel Approval
Departments
Employee Details
Expenses
Expense Items
Reports
Dashboards
Travel Approvals
Employee Travel detail
5
+ Component
+ Filter
Save
Done


Select Report
Reports
Recent
Created by Me
Private Reports
Public Reports
All Reports
Folders
Select Report
Search Reports and Folders...
Reports and Folders
Propertys with Customer Name Report
Vanshiv Technologies · 08-Apr-2023, 12:48 pm · Private Reports
Travel Approval Report
Vanshiv Technologies · 08-Apr-2023, 12:56 pm · Private Reports
6
New Departments Report
Vanshiv Technologies · 08-Apr-2023, 12:17 pm · Private Reports
Cancel
Select





View Dashboard

1.Click on App Launcher on left side of screen.
2.Search Travel Approval App & click on it.

3.Click on Dashboard Tab.

4.Click on Travel Approval and see graph view of records