A CRM APPLICATION FOR WHOLESALE RICE MILL

The Rice Mill CRM Application is a comprehensive solution designed to streamline and simplify how much rice per day,how many were sold that rice and which type of rice all reports send to owners daily wise. It leverages the power of customer relationship management (CRM) to enhance customer experiences, optimize store operations, and improve overall efficiency in the rice mill factory. This project aims to develop a user-friendly and feature-rich application that addresses the specific needs of a rice mill factory.

Features and Functionality:

Reporting and Dashboards: The application can generate detailed reports and analytics regarding daily how much rice sold and total income per daily, revenue generated, popular amenities, and most buyed customers. Easy to understand the data to the owner, improving resource allocation, and planning future development.

A rollup summary field: This is a field that summarizes data from a child object to a parent object that shares a master-detail relationship. Rollup summary fields can use the COUNT, SUM, MIN, and MAX functions. For example, you could use a rollup summary field to display the total value (amount of rice supplied) from rice details on a related supplier.

A cross-object formula field: It is a formula field that references fields from another object in Salesforce. This type of formula allows users to calculate the total amount from number of rice taken*price/kg and it displays the total amount I have to pay.

Validation rules: validation rules also include an error message to display to the user when the rule returns a value of “True” due to an invalid value.so , In this project i gave Isblank formula.Isblank formula is used to verify whether it is blank it shows error.

Permission sets: Organization Wide Defaults(OWD) in salesforce is the baseline level of access that the most restricted user should have. Organizational Wide Defaults are used to restrict access.But in our case we created roles and given the roles in such a way that the owner can see   employer and worker records , and the employer can see the worker records.

TASK 1 :

What Is an Object?
Salesforce objects are database tables that permit you to store data that is specific to an organization. What are the types of Salesforce objects

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.

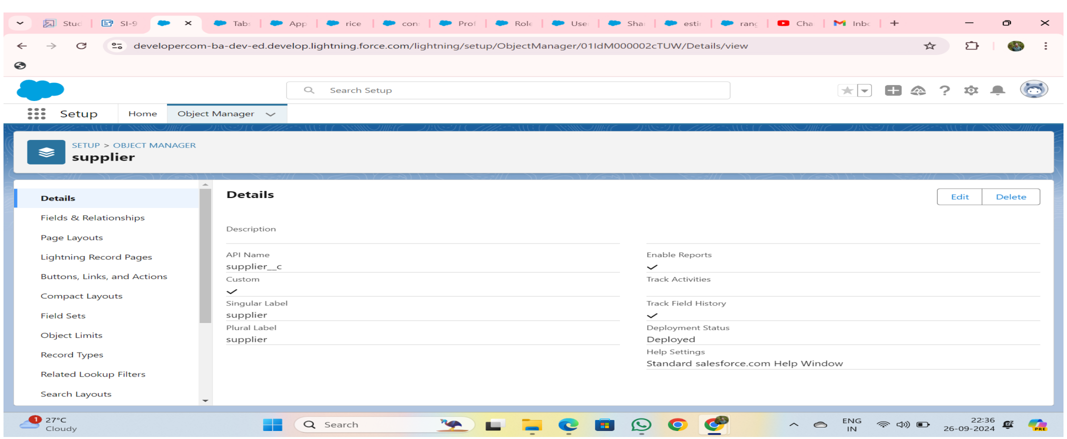
Create Supplier Object

To create an object:

1. From the setup page >> Click on Object Manager>> Click on Create>>Click on Custom Object.
1. Enter the label name>>supplier
2. Plural label name>>supplier
3. Enter Record Name Label and Format

- Record Name >> supplier Name
- Data Type>>Text

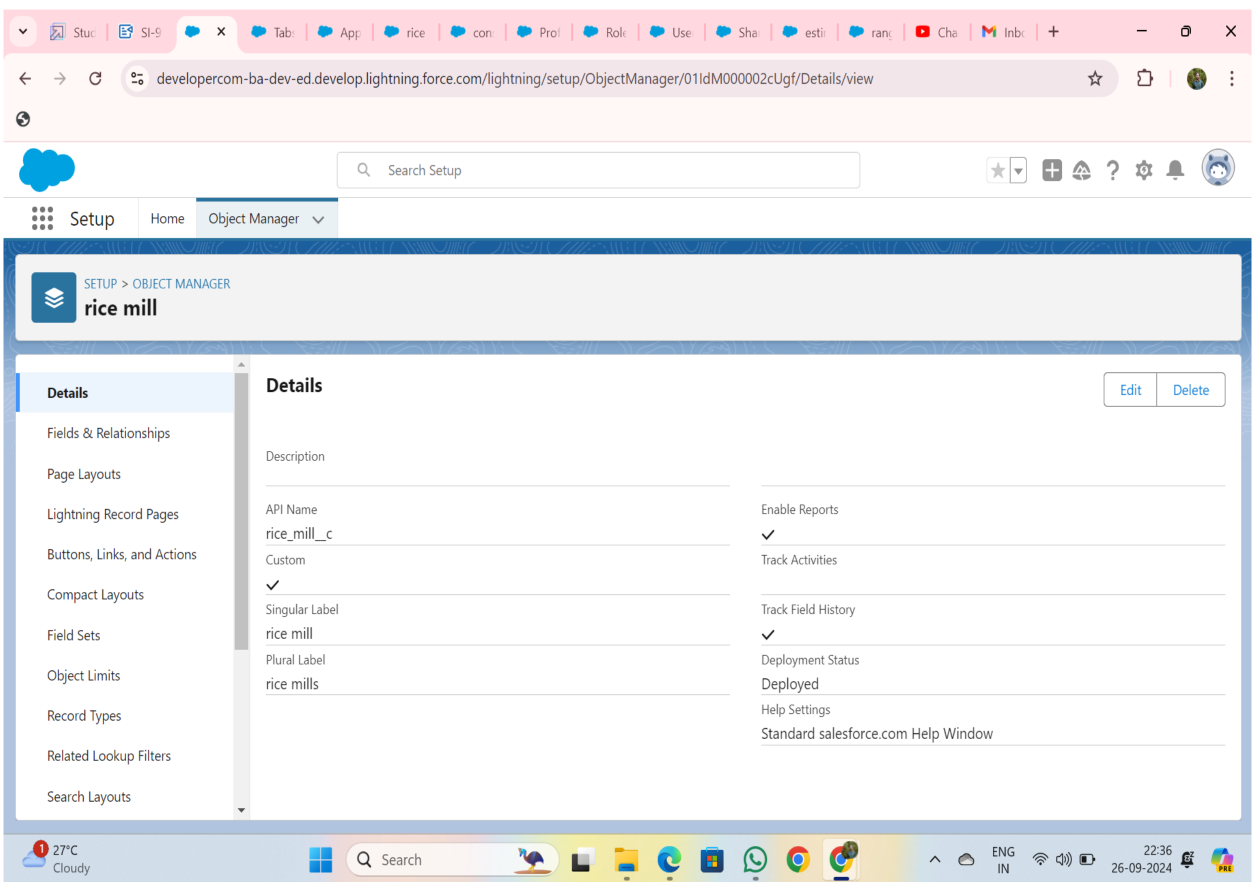
2. Click on Allow reports and Track Field History and allow search
3. Allow search >> Save.



Create Rice mill Object

To create an object:

1. From the setup page >> Click on Object Manager>>Click on Create >> Click on Custom Object.
1. Enter the label name>>rice mill
2. Plural label name>> rice mills
3. Enter Record Name Label and Format
- Record Name >>
- Data Type >> Auto Number
- Display Format >> rice-{000}
- Starting number >> 1
2. Click on Allow reports and Track Field History, Allow Search and Save.

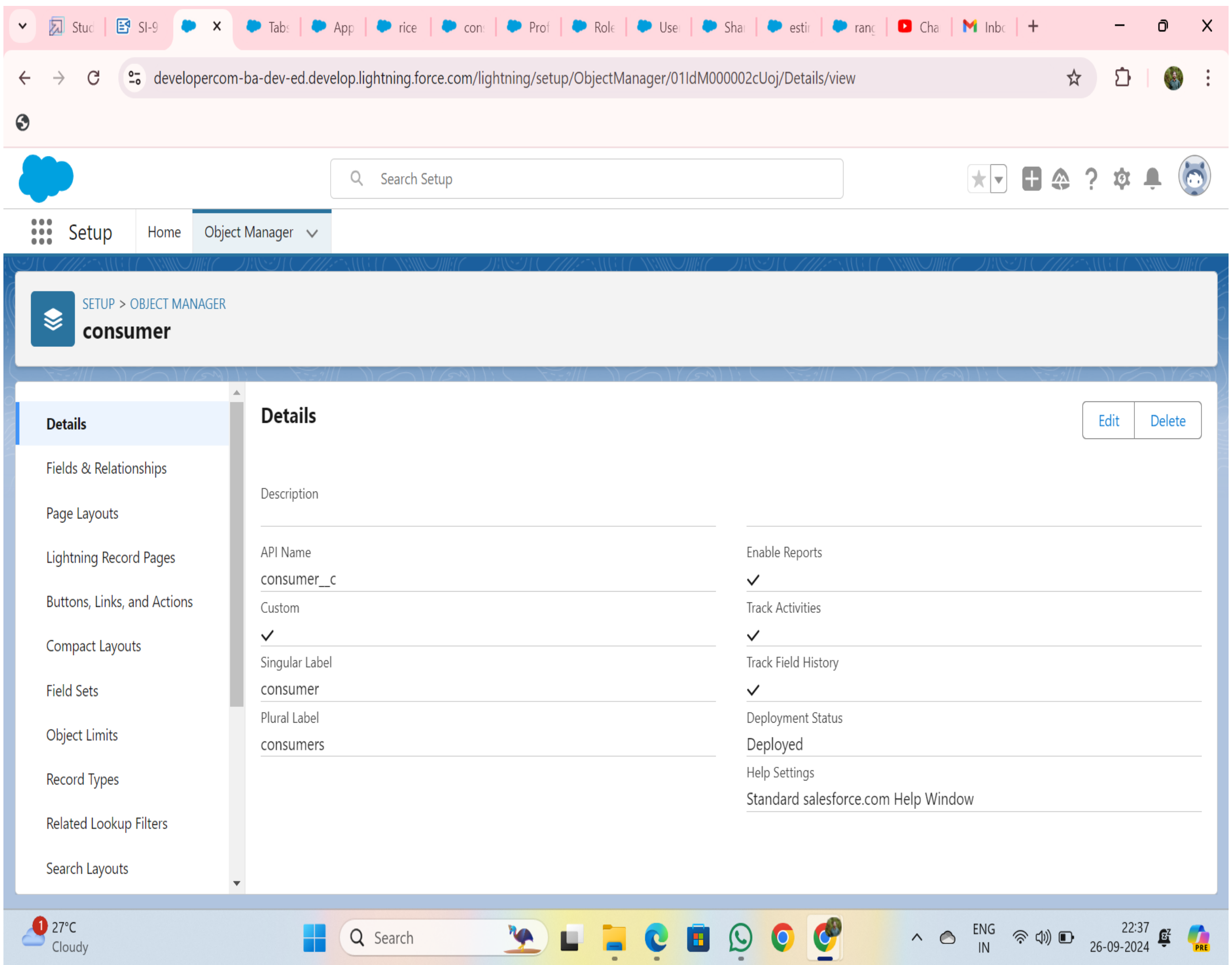


Create consumer Objects

Note: Follow the same steps as mentioned in Activity 2 for the and Receipt objects.

1. Use these display format for the consumer

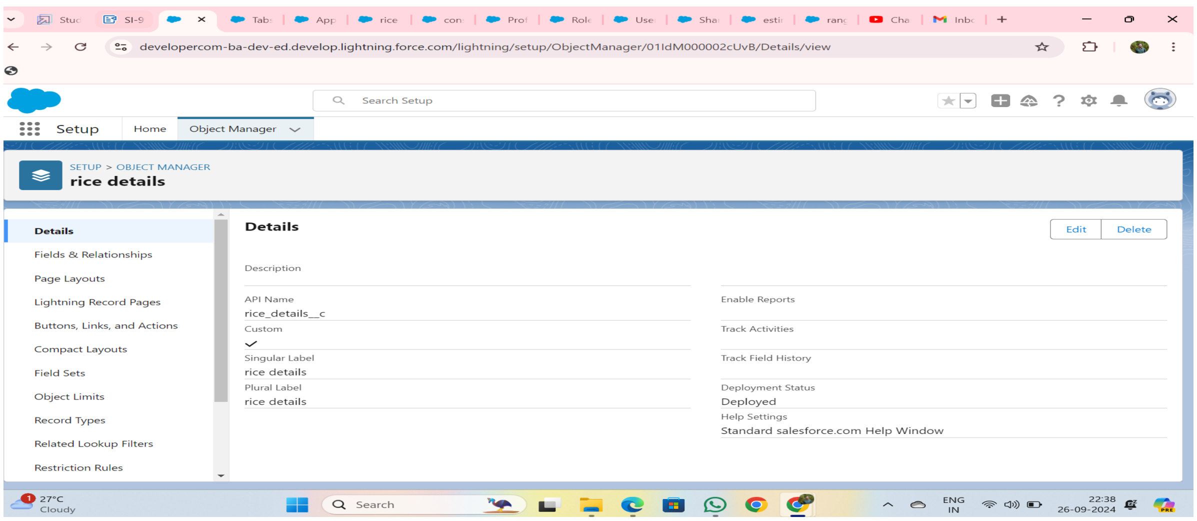
- label name >> consumer
- Plural label name >> consumers
- Display Format >> consumers-{000}
- Starting number >> 1



Create rice details Objects

1. Use these display format for the rice details

- label name >> rice details
- Plural label name >> rice details
- Display Format >> rice-{000}
- Starting Number >>1



TASK 2:

What is Tab : A tab is like a user interface that is used to build records for objects and to view the records in the objects.

Types of Tabs:

Custom Tabs

Custom object tabs are the user interface for custom applications that you build in salesforce.com. They look and behave like standard salesforce.com tabs such as accounts, contacts, and opportunities.

Web Tabs

Web Tabs are custom tabs that display web content or applications embedded in the salesforce.com window. Web tabs make it easier for your users to quickly access content and applications they frequently use without leaving the salesforce.com application.

Visualforce Tabs

Visualforce Tabs are custom tabs that display a Visualforce page. Visualforce tabs look and behave like standard salesforce.com tabs such as accounts, contacts, and opportunities.

Lightning Component Tabs

Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app.

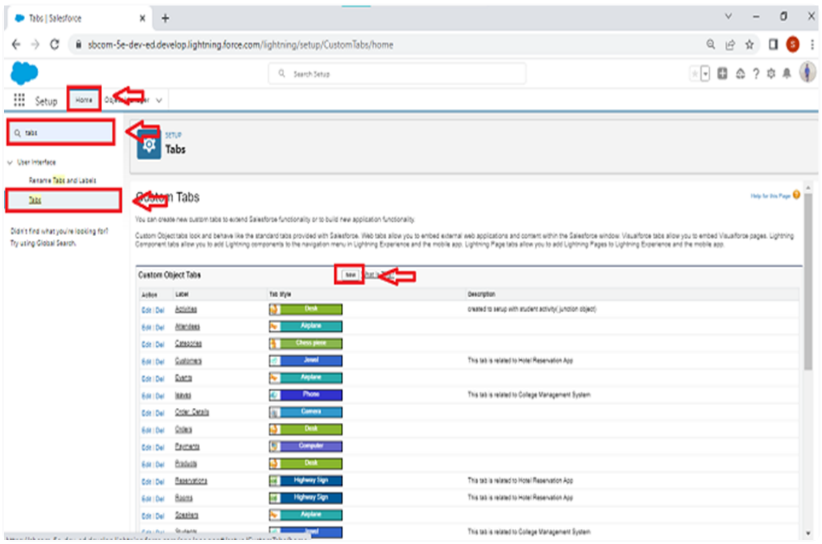
Lightning Page Tabs

Lightning Page Tabs let you add Lightning Pages to the mobile app navigation menu. Lightning Page tabs don't work like other custom tabs. Once created, they don't show up on the All Tabs page when you click the Plus icon that appears to the right of your current tabs. Lightning Page tabs also don't show up in the Available Tabs list when you customize the tabs for your apps.

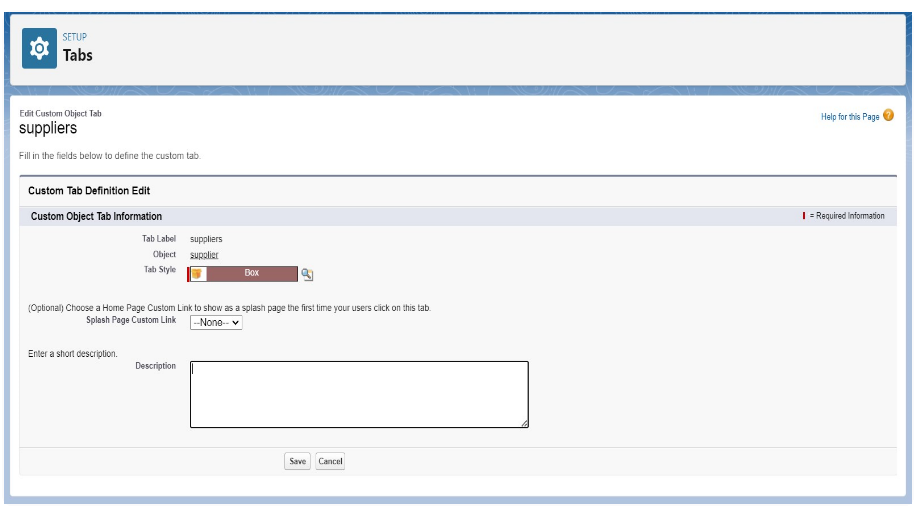
Creating a Custom Tab

To create a Tab:(supplier)

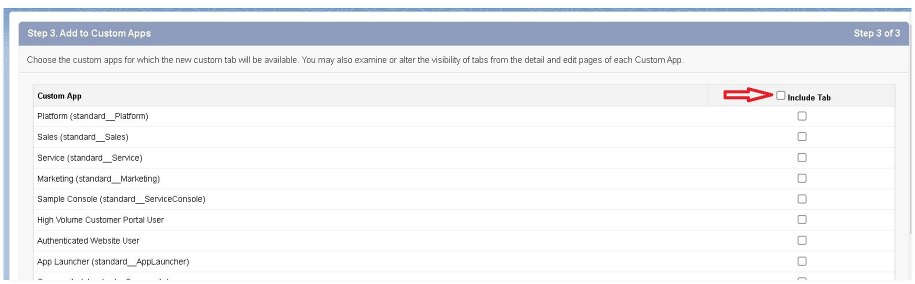
1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)

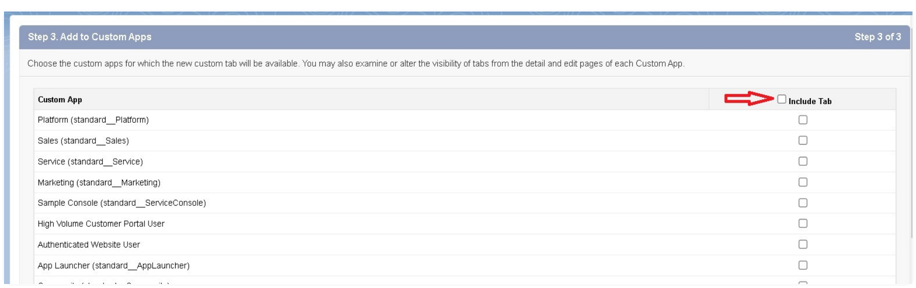


2. Select Object(supplier) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab .
3. Make sure that the Append tab to users' existing personal customizations is checked.
4. Click save.




Tab Style Selector
Create your own style
Hide styles which are used on other tabs
Airplane
Alarm clock
Apple
Balls
Bank[1]
Bell
Big top
Boat[1]
Books
Bottle
Box
Bridge
Building
Building Block
Caduceus
Camera
Can
Car
Castle
CD/DVD
Cell phone
Chalkboard
Chess piece
Chip
Circle
Compass
Computer
Credit card
CRT TV
Cup
Desk[1]
Diamond
Dice
Factory
Fan
Flag
Form
Gears
Globe
Guitar
Hammer
Hands
Handsaw
Headset
Heart[1]
Helicopter
Hexagon
Highway Sign
Hot Air Balloon
Insect
IP Phone
Jewel
Keys
Laptop
Leaf
Lightning
Save
Cancel


Step 3. Add to Custom Apps
Step 3 of 3
Choose the custom apps for which the new custom tab will be available. You may also examine or alter the visibility of tabs from the detail and edit pages of each Custom App.
Custom App
Include Tab
Platform (standard__Platform)
Sales (standard__Sales)
Service (standard__Service)
Marketing (standard__Marketing)
Sample Console (standard__ServiceConsole)
High Volume Customer Portal User
Authenticated Website User
App Launcher (standard__AppLauncher)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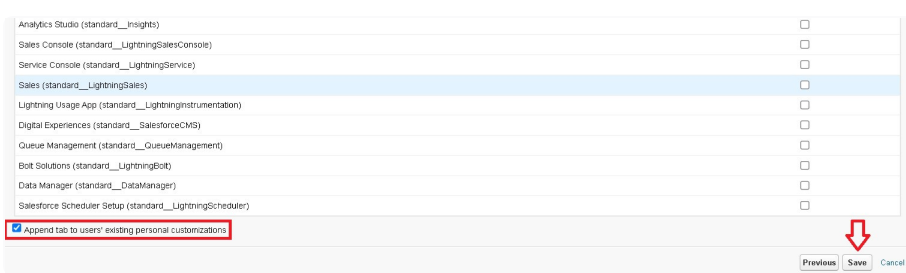
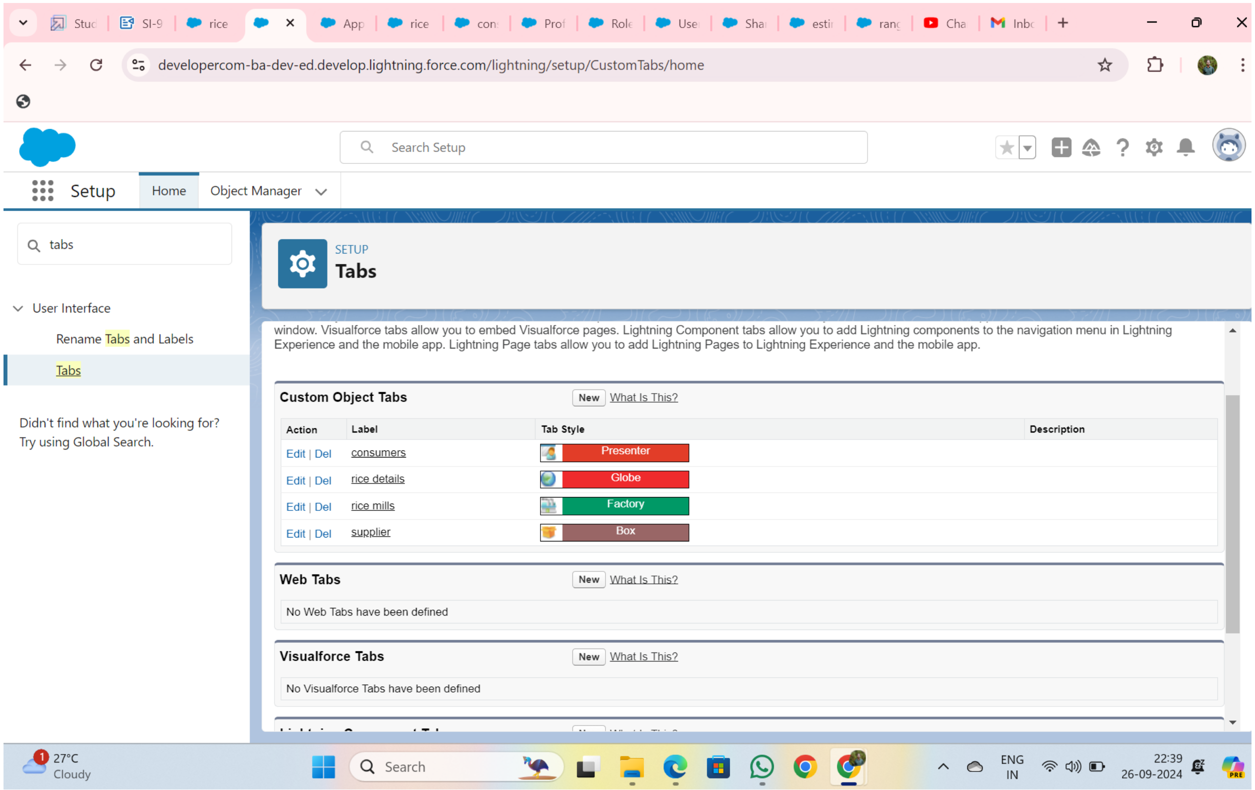
Step 3 of 3
Choose the custom apps for which the new custom tab will be available. You may also examine or alter the visibility of tabs from the detail and edit pages of each Custom App.
Custom App
Include Tab
Platform (standard__Platform)
Sales (standard__Sales)
Service (standard__Service)
Marketing (standard__Marketing)
Sample Console (standard__ServiceConsole)
High Volume Customer Portal User
Authenticated Website User
App Launcher (standard__AppLauncher)


Analytics Studio (standard__Insights)
Sales Console (standard__LightningSalesConsole)
Service Console (standard__LightningService)
Sales (standard__LightningSales)
Lightning Usage App (standard__LightningInstrumentation)
Digital Experiences (standard__SalesforceCMS)
Queue Management (standard__QueueManagement)
Bolt Solutions (standard__LightningBolt)
Data Manager (standard__DataManager)
Salesforce Scheduler Setup (standard__LightningScheduler)
Append tab to users' existing personal customizations
Previous
Save
Cancel

Creating Remaining Tabs

1. Now create the Tabs for the remaining Objects, they are " rice mill, consumer , rice details".
2. Follow the same steps as mentioned in Activity -1 .



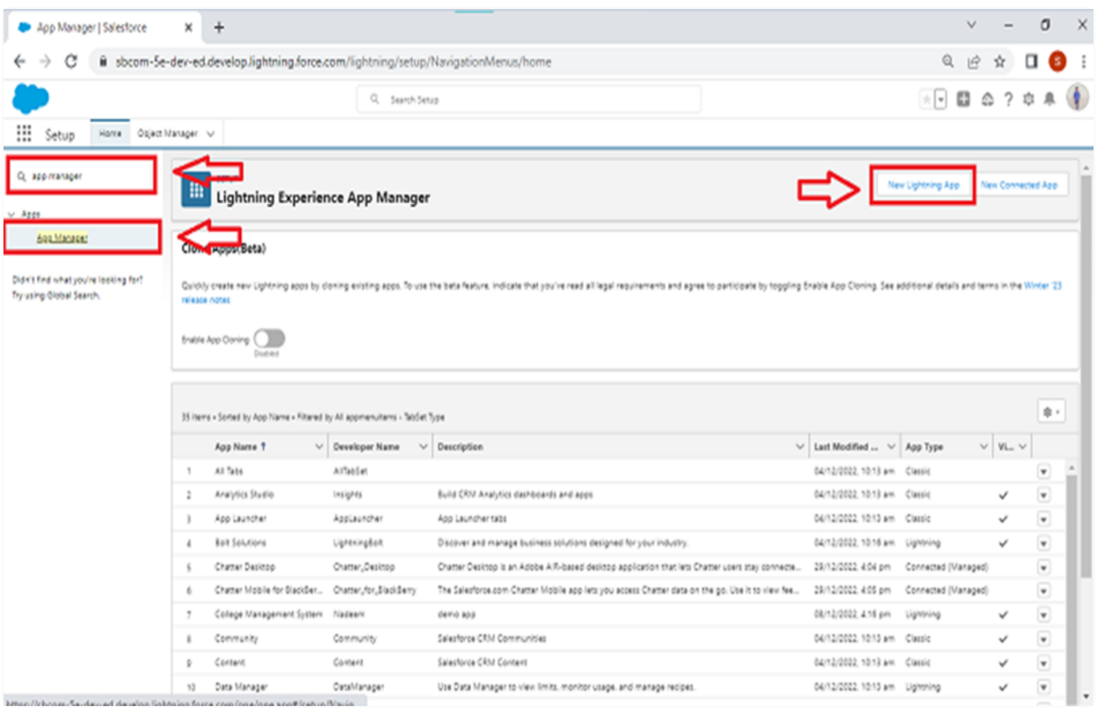
TASK 3 : The Lightning App

An app is a collection of items that work together to serve a particular function. In Lightning Experience, Lightning apps give your users access to sets of objects, tabs, and other items all in one convenient bundle in the navigation bar.
Lightning apps let you brand your apps with a custom color and logo. You can even include a utility bar and Lightning page tabs in your Lightning app. Members of your org can work more efficiently by easily switching between apps.

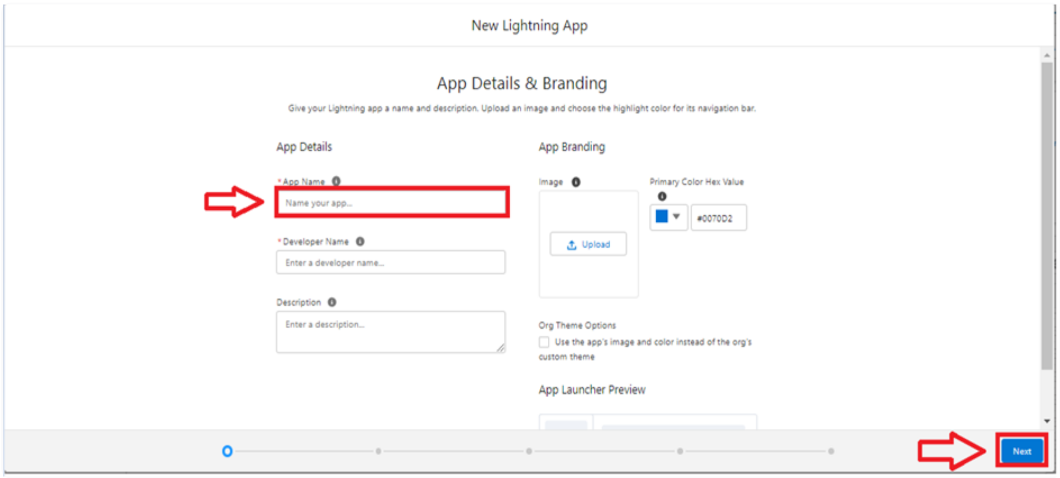
Create a Lightning App

To create a lightning app page:

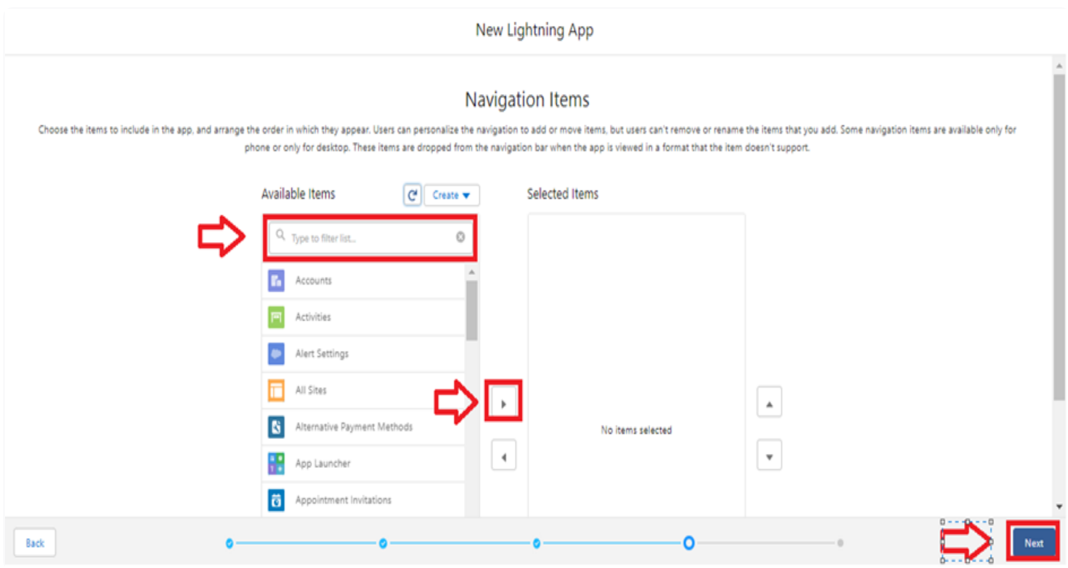
1. Go to setup page >> search "app manager" in quick find >> select "app manager" >> click on New lightning App.



2. Fill the app name in app details as MY RICE >> Next >> (App option page) keep it as default >> Next >> (Utility Items) keep it as default >> Next.

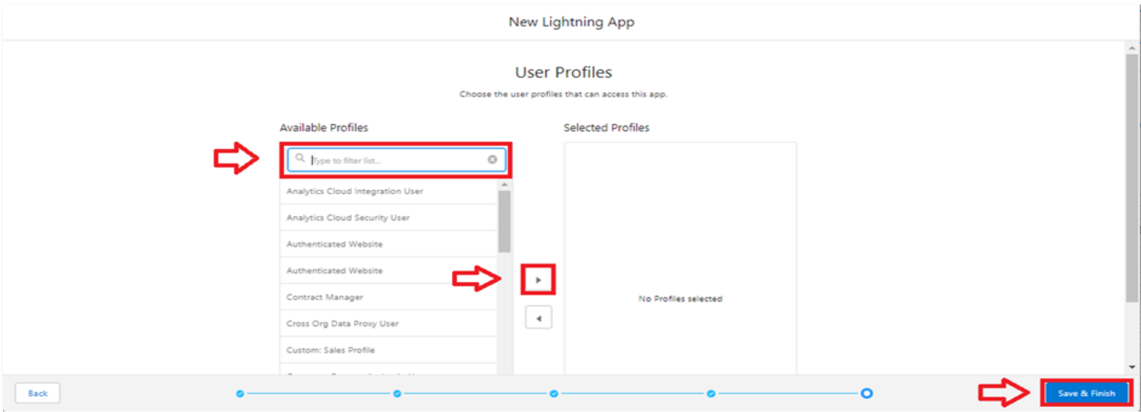
3. 

4. Upload a photo that is related to your app.
5. To add Navigation Item:

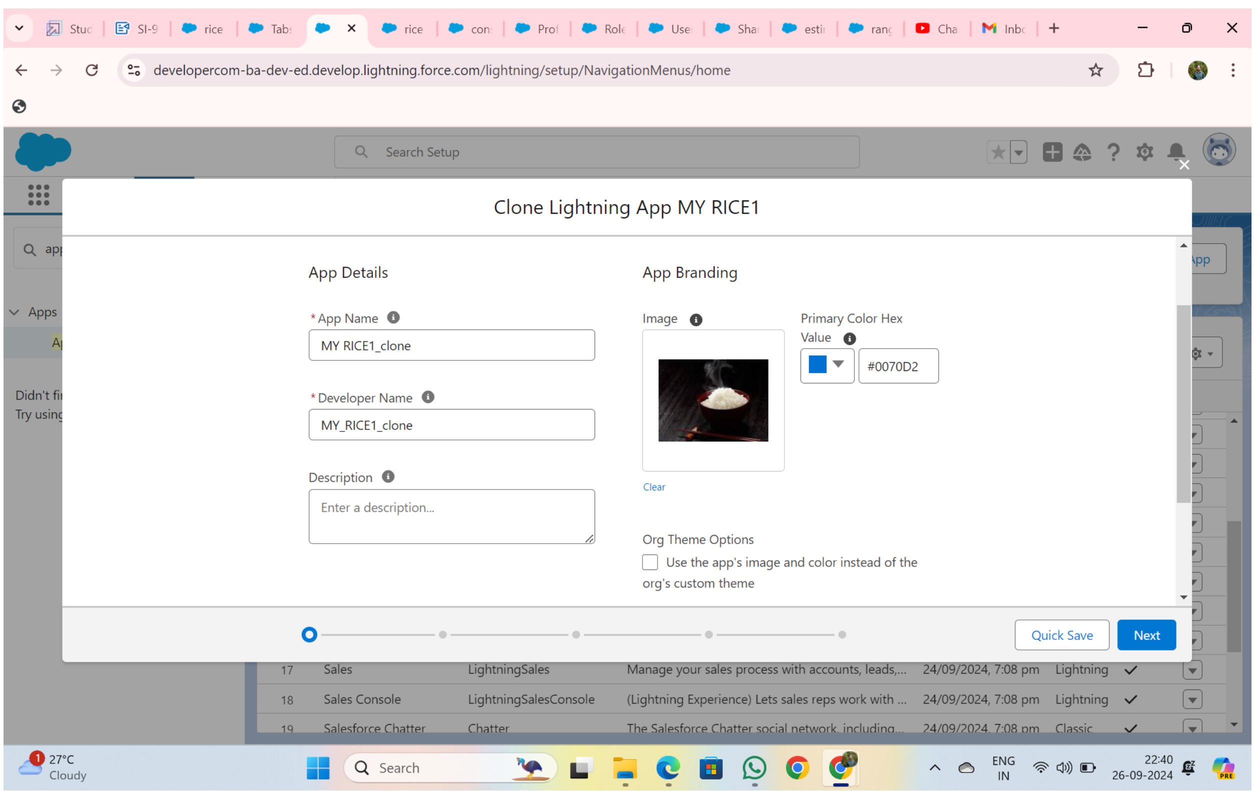


2. Select the items (supplier, rice mill, consumer , Rice details) from the search bar and move it using the arrow button >> Next.

   To Add User Profiles:



Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.



TASK 4 : Fields

When we talk about Salesforce, Fields represent the data stored in the columns of a relational database. It can also hold any valuable information that you require for a specific object. Hence, the overall searching, deletion, and editing of the records become simpler and quicker.

Types of Fields

1. Standard Fields
2. Custom Fields

Standard Fields:

As the name suggests, the Standard Fields are the predefined fields in Salesforce that perform a standard task. The main point is that you can't simply delete a Standard Field until it is a non-required standard field. Otherwise, users have the option to delete them at any point from the application freely. Moreover, we have some fields that you will find common in every Salesforce application. They are,

1. Created By
2. Owner
3. Last Modified
4. Field Made During object Creation

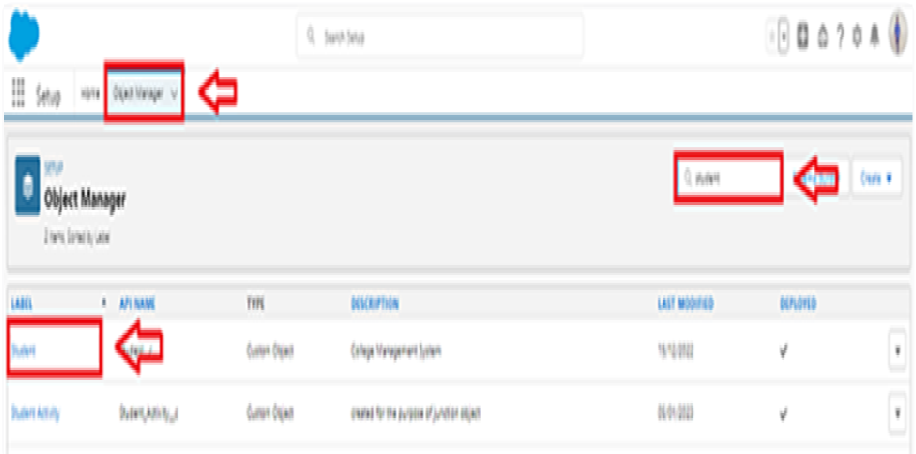
Custom Fields:

On the other side of the coin, Custom Fields are highly flexible, and users can change them according to requirements. Moreover, each organizer or company can use them if necessary. It means you need not always include them in the records, unlike Standard fields. Hence, the final decision depends on the user, and he can add/remove Custom Fields of any given form.

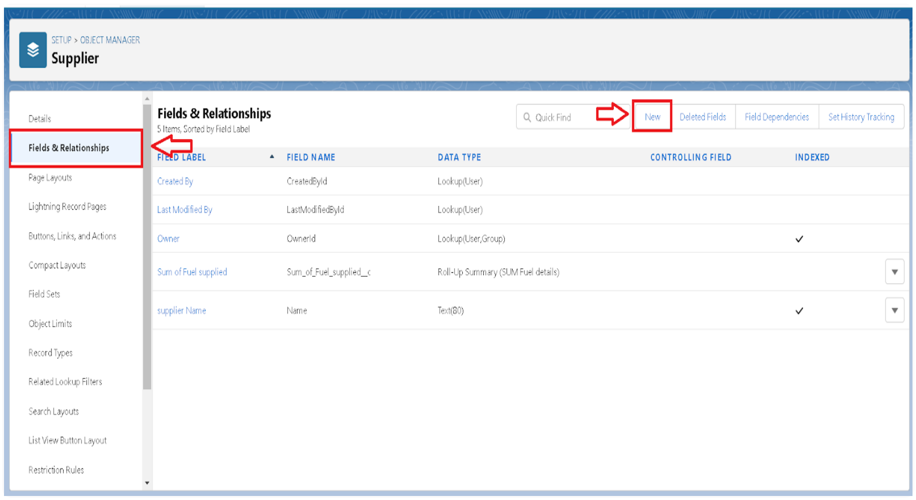
Creating the number field in rice details object

Creating the number field in rice details object

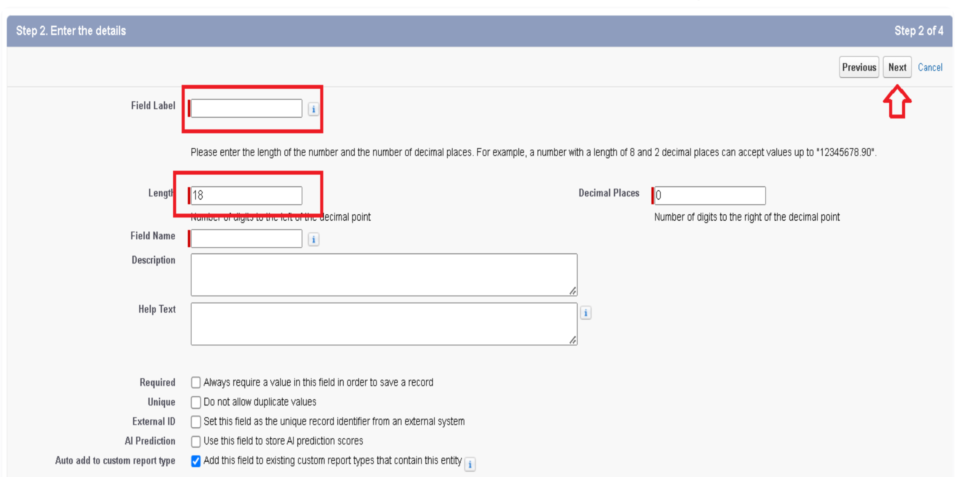
1. Go to the setup page >> click on object manager >> From drop down click edit for rice details object



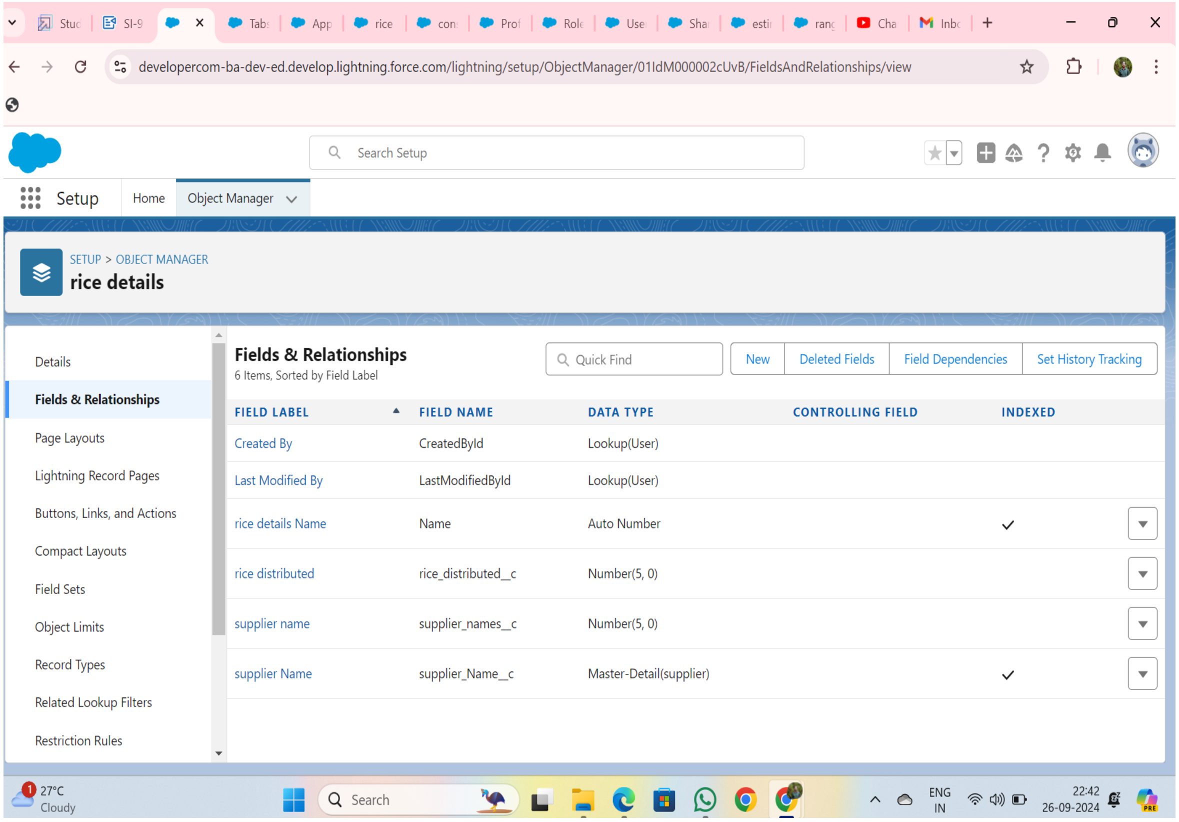
2. Click on fields & relationship >> click on New.



3. Select Data type as “Number” and click Next.
4. Given the Field Label as “ rice distributed ” and length as “ 5 ”.



5. Field Name will be auto populated, and click on Next- Next >> Save.



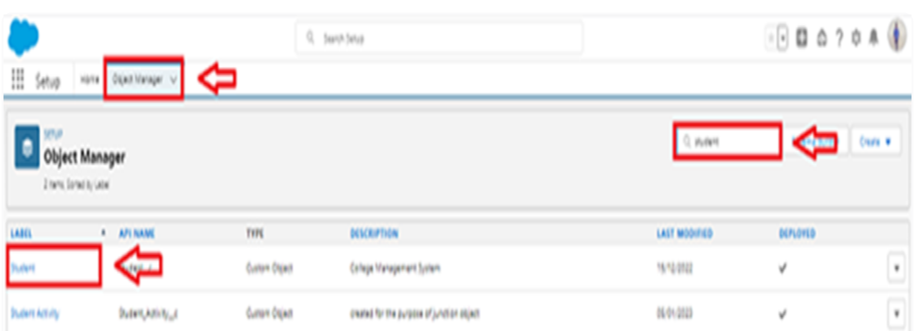
Creating Junction Object

A Junction object is a custom object that serves as a bridge between two related objects in a many-to-many relationship. It allows you to create a relationship between records of two different objects by creating a many-to-many relationship model.

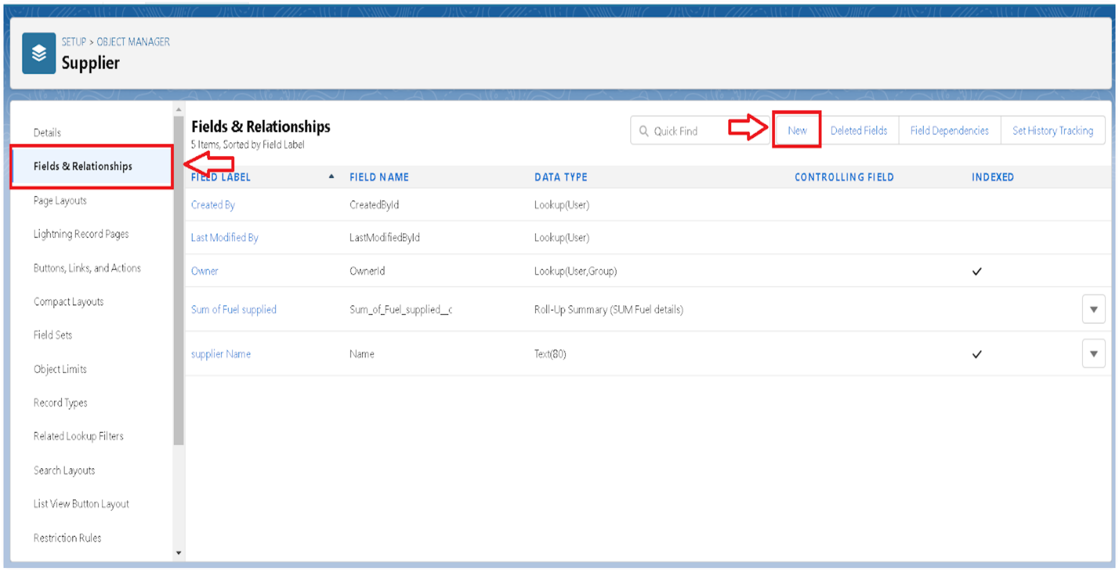
Creating junction object as rice details with supplier & rice mill

To create junction object

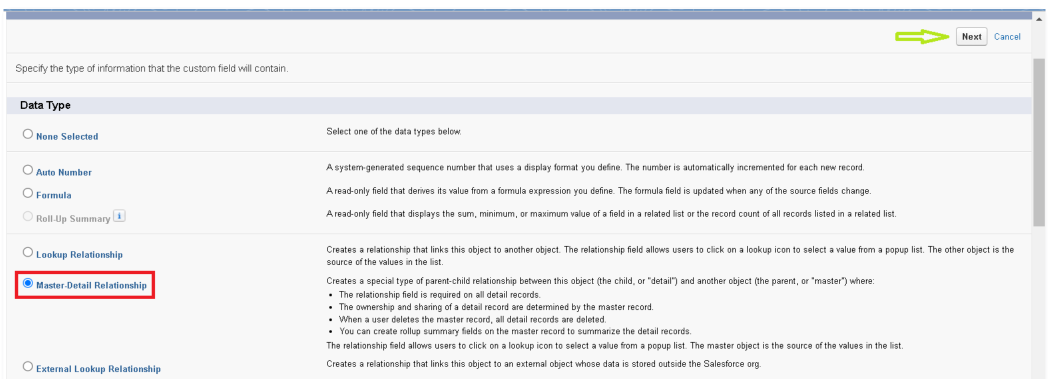
1.Go to the setup page >> click on object manager >> From drop down click edit for rice details object



2. Click on fields & relationship - click on New.



3. Select “Master-Detail relationship” as data type and click Next.



4. Select the related object “ supplier ” and click next.

5. Give Field Label as “supplier Name” and click Next.
6. Next >> Next >> Save & New.
7. Follow the same steps from 1 to 3.

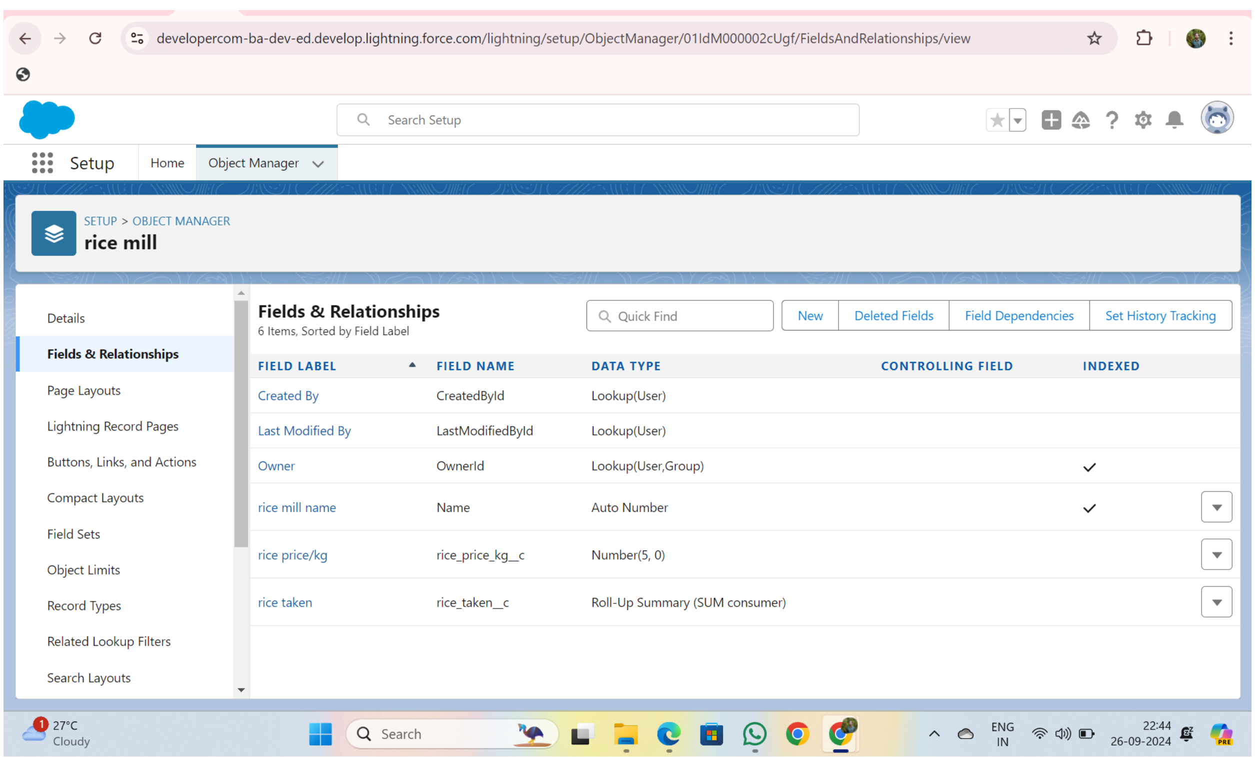
8. Select the related object " rice mill " and click Next.
9. Give Field Label as "rice mill 1(one)" and click Next.
10. Next >> Next >> Save.

Creating a Master-Detail Relationship

master-detail relationship is a type of relationship between two objects where the master object controls certain behaviors and settings of the detail object. Here are a few use cases that demonstrate the use of master-detail relationships

Creating Master-Detail Relationship between consumer & rice mill Object
To Create a Master-Detail relationship

1. Go to the setup page >> click on object manager >> From drop down click edit for consumer object.
2. Click on fields & relationship >> click on New.
3. Select "Master-Detail relationship" as data type and click Next.
4. Select the related object " rice mill".
5. Give Field Label as "rice mill name" and click Next.
6. Next >> Next >> Save.

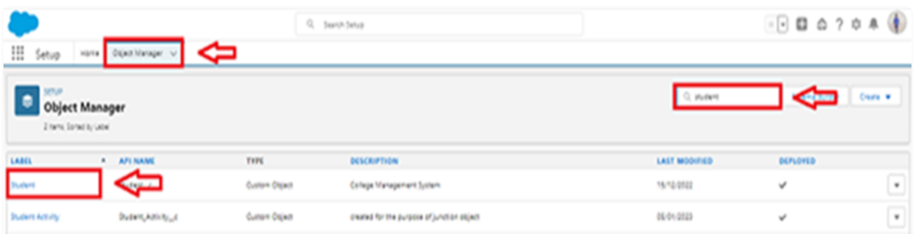


Creating the Roll-up Summary

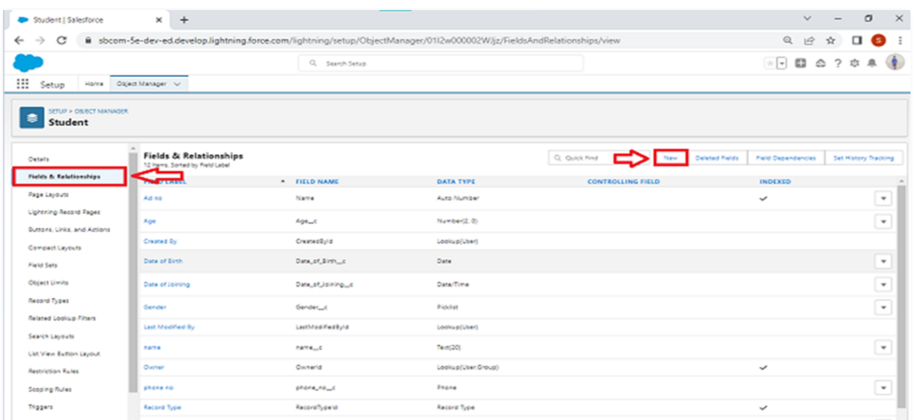
A rollup summary field is a field that summarizes data from a child object to a parent object that shares a master-detail relationship. Rollup summary fields can use the COUNT, SUM, MIN, and MAX functions. For example, you could use a rollup summary field to display the total value (amount of rice supplied) from rice details on a related supplier.

Creating the Roll-up summary field on supplier & rice mill Objects.

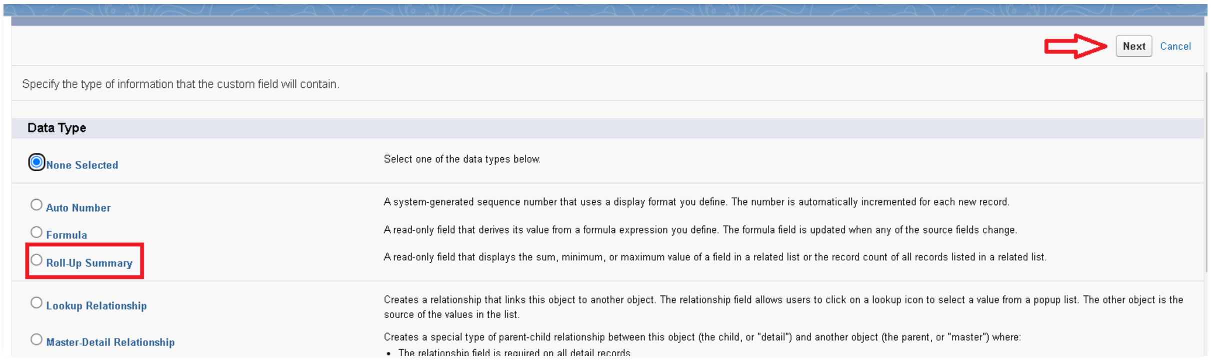
1. Go to setup >> click on Object Manager >> type object name(supplier) in search bar >> click on the object.



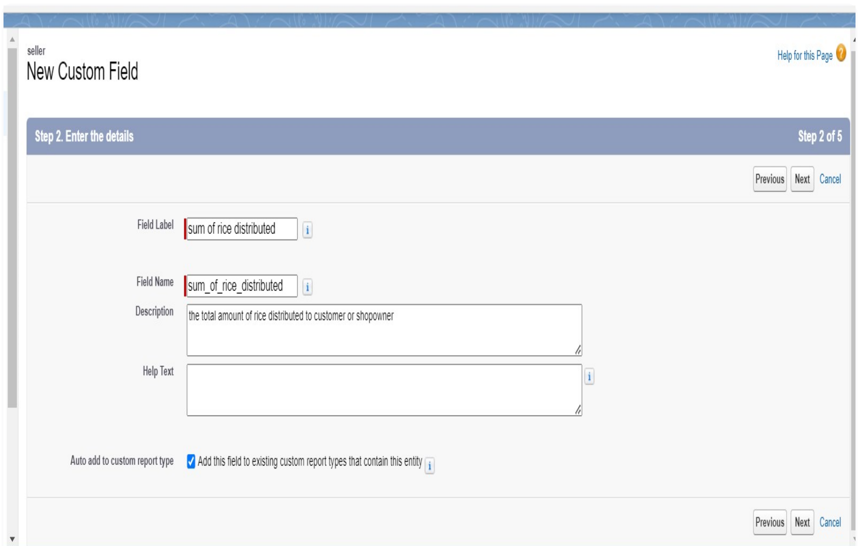
2. Now click on “Fields & Relationships” >> New



3. Select the data type as “Rollup summary ”,and click Next.



4. Give the Field label as " sum of rice distributed ",Field Name will be Auto generated, and click Next.



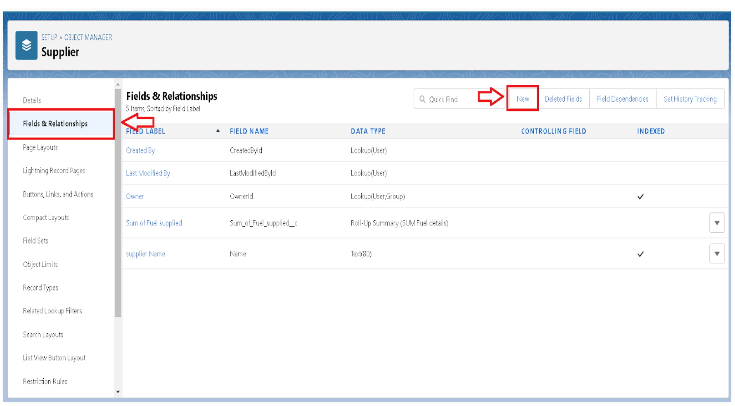
5. Select the summarized object as " rice details ".
6. Select the Rollup type as "sum".
7. Select the field to aggregate as " rice distributed ", and click Next >>Next >>Save.

9. Follow the same steps for the rice mill Object from 1 to 3
10. Give the Field label as “ rice distributed to shops ”,Field Name will be Auto generated, and click Next.
11. Select the summarized object as “ rice details ”.
12. Select the Rollup type as “sum”.
13. Select the field to aggregate as “ rice distributed ”, and click Next >> Next >> Save.
14. Note : create the field as “ rice taken by shops in kgs” using number datatype in consumer object
15. Follow the same steps for the rice mill Object from 1 to 3
16. Give the Field label as “ rice taken ”,Field Name will be Auto generated, and click Next.
17. Select the summarized object as “ consumer”.
18. Select the Rollup type as “sum”.
19. Select the field to aggregate as “ rice taken in shops ”, and click Next >> Next >> Save.

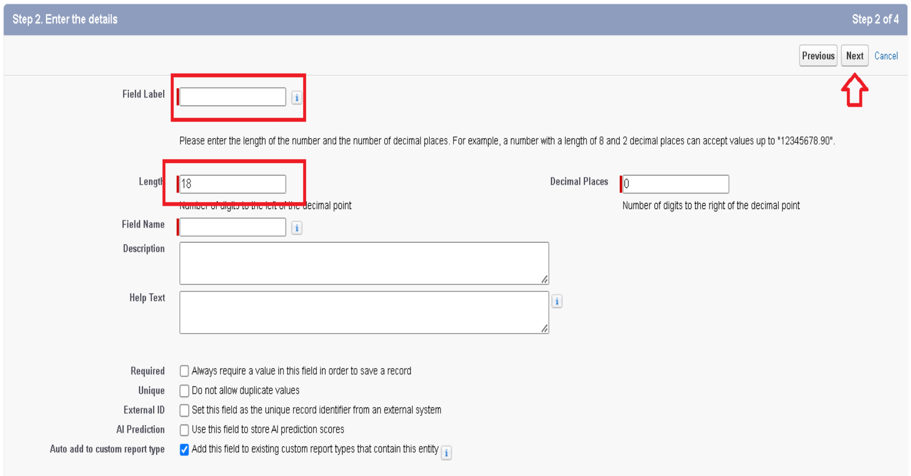
Creating Fields in Objects

Creating the number field in rice details object

1. Go to the setup page >> click on object manager >> From drop down click edit for rice details object.
2. Click on fields & relationship >> click on New.



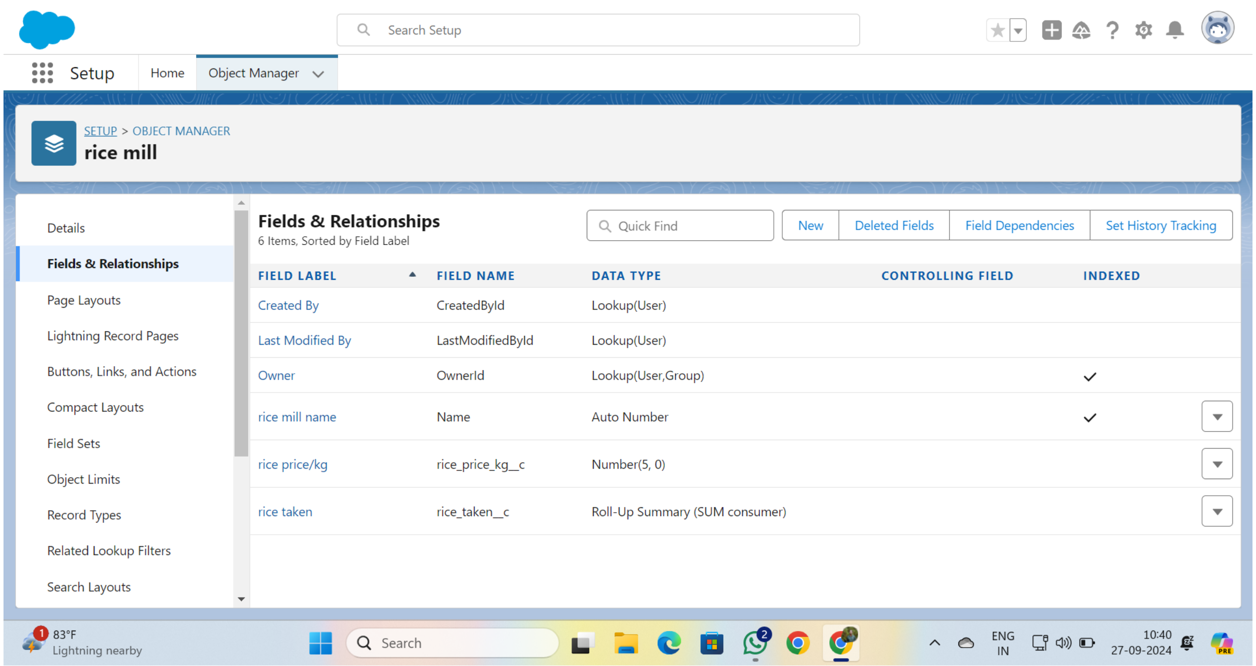
3. Select Data type as “master detail” and click Next.
4. Given the Field Label as “ supplier name ” and length as “ 5



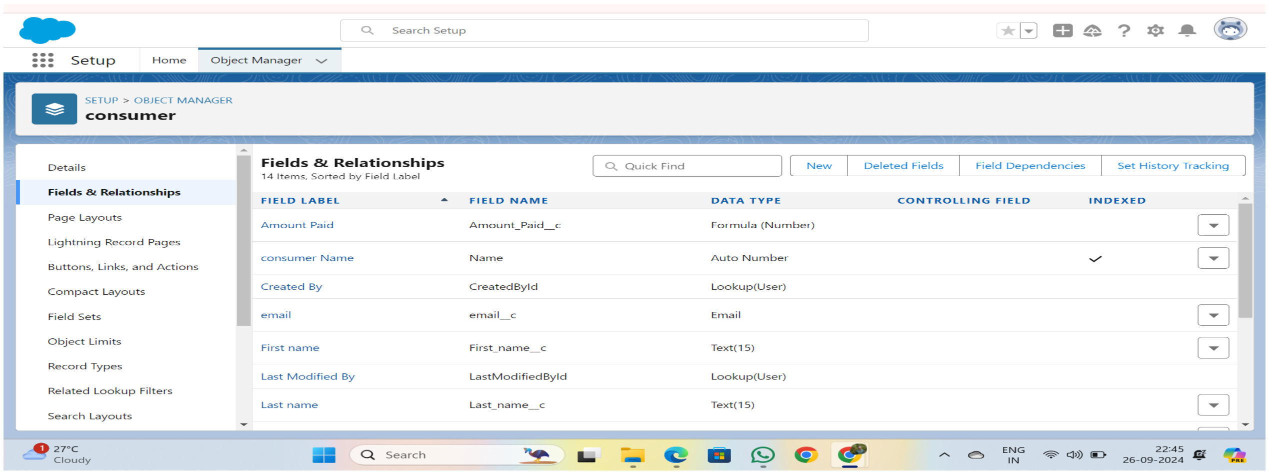
5. Field Name will be auto populated, and click on Next>> Next >>Save.

Creating Fields in rice mill Objects

1. Select Data type as "Number" and click Next.
2. Given the Field Label as " rice price/kg " and length as " 5 "



Creating Fields in consumer Objects



Creating Cross Object Formula Field in consumer Object

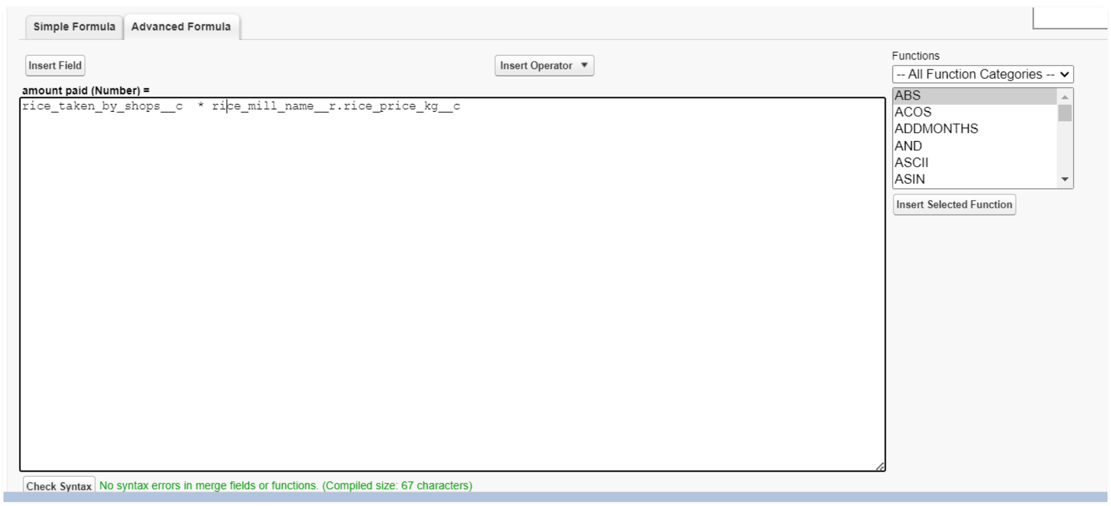
A cross-object formula field is a formula field that references fields from another object in Salesforce. This type of formula allows users to calculate and display data from multiple objects on a single record.

Note : check whether the fields mentioned in the formula field are created or not , if not go to activity 9 and create those fields mentioned in consumer object.

1. Go to setup >> click on Object Manager >> type object name(consumer) in search bar >> click on the object.
2. Click on fields & relationship >> click on New.
3. Select Data type as “Formula” and click Next.
4. Give Field Label and Field Name as “Amount Paid ” and select formula return type as “Number” and click next.

5. Insert fields formula should be :
   rice_taken_by_shops__c * rice_mill_name__r.rice_price_kg__c

6. Under Advanced Formula write down the formula and click “Check Syntax” and Save.



1. Creating the Formula field in consumer Object

Note : check whether that the fields that mentioned in the formula field are created are not , if not go to activity 9 and create that fields mentioned in consumer object

2. Go to setup >> click on Object Manager >> type object name(consumer) in search bar >> click on the object.
3. Click on fields & relationship >> click on New.
4. Select Data type as “Formula” and click Next.
5. Give Field Label and Field Name as “Consumer Name” and select formula return type as “TEXT” and click next.
6. Insert field formula should be : First_Name__c   + ' ' + Last_Name__c
7. click “Check Syntax” and Save.

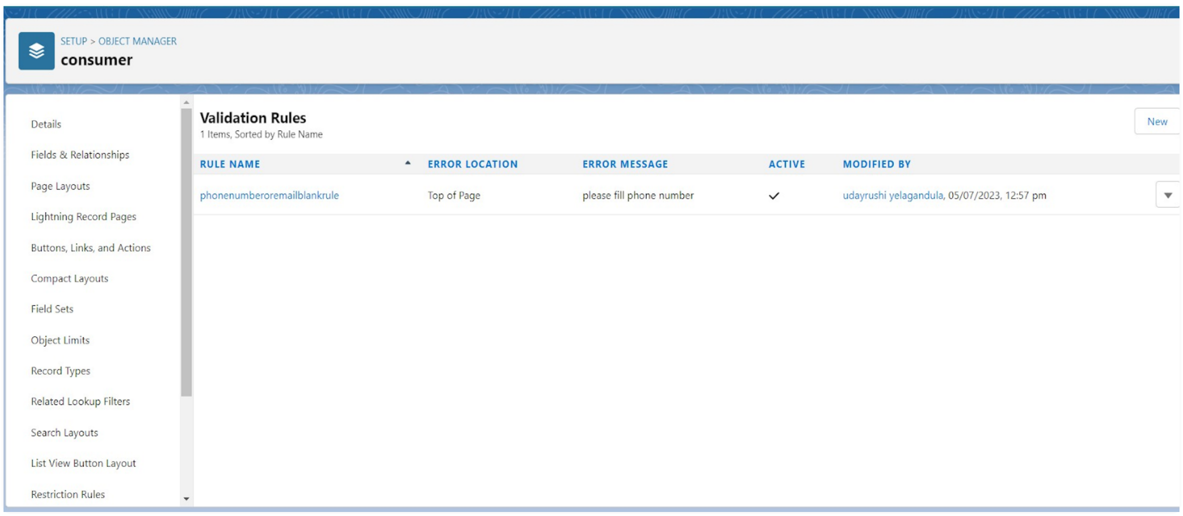
Creating the validation rule

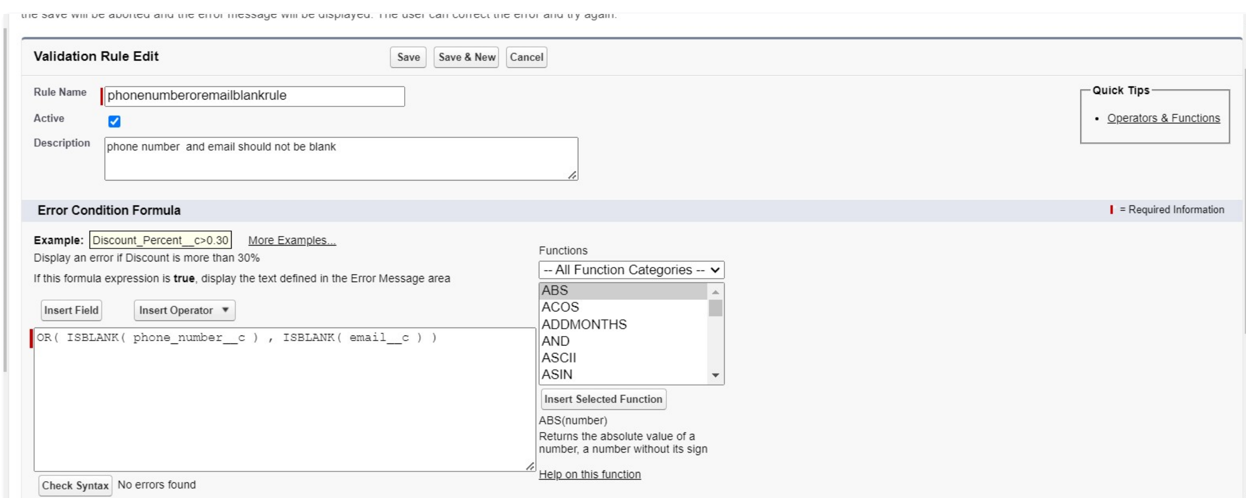
Improve the quality of your data using validation rules. Validation rules verify that the data a user enters in a record meets the standards you specify before the user can save the record. A validation rule can contain a formula or expression that evaluates the data in one or more fields and returns a value of “True” or “False”. Validation rules also include an error message to display to the user when the rule returns a value of “True” due to an invalid value.

Creating the validation rule for phone number field in consumer object

Note : check whether the fields mentioned in the formula field are created or not , if not go to activity 9 and create those fields mentioned in consumer object.

1. Go to the setup page >>click on object manager >> From drop down click edit for consumer object.
2. Click on the validation rule >> click New.



3. Enter the Rule name as “Phonenumberoremailblankrule ”.
4. Enter the description as “phone number and email number should not be blank”.
5. Enter the formula as “OR(ISBLANK(phone_number__c) , ISBLANK(email__c))” and check the syntax.
6. 

7. Under the error message write as”please fill in your phone number.”
8. Select error location “top of page”.

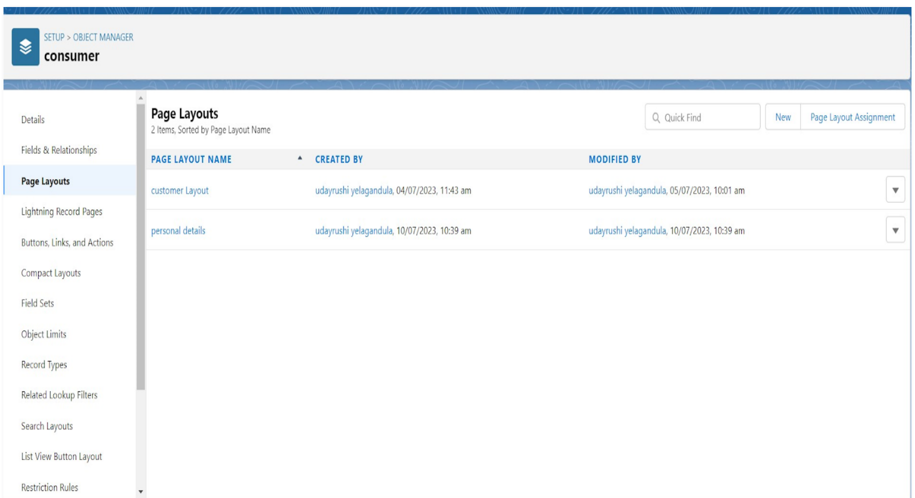
TASK 5 : PAGE LAYOUT

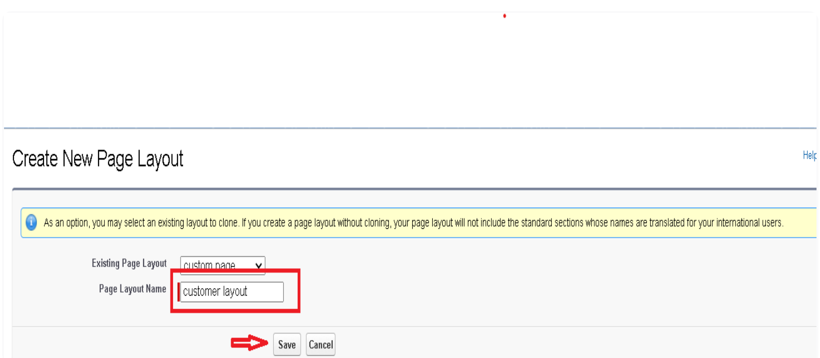
Page Layout in Salesforce allows us to customize the design and organize detail and edit pages of records in Salesforce. Page layouts can be used to control the appearance of fields, related lists, and custom links on standard and custom objects' detail and edit pages.

creating the page layout

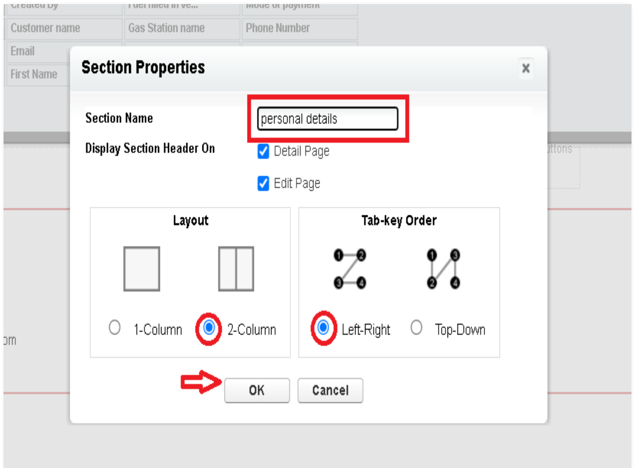
To Create a Page layout:

1. Go to Setup >> Click on Object Manager >>Search for the object (consumer) >> From drop down select the object and click on it.
2. Click on Page layout >> Click on New.



3. Select the existing page layout, and give the page layout name as “consumer layout”, and click save.
4. 

4.
5. Drag and drop the section field to consumer details and create the section.
6. Enter the section name as “Personal details”, - click Ok.



7. Now drag the fields to this section that mentioned , they are

- First name , last name , consumer name , phone number, email, rice mill name.

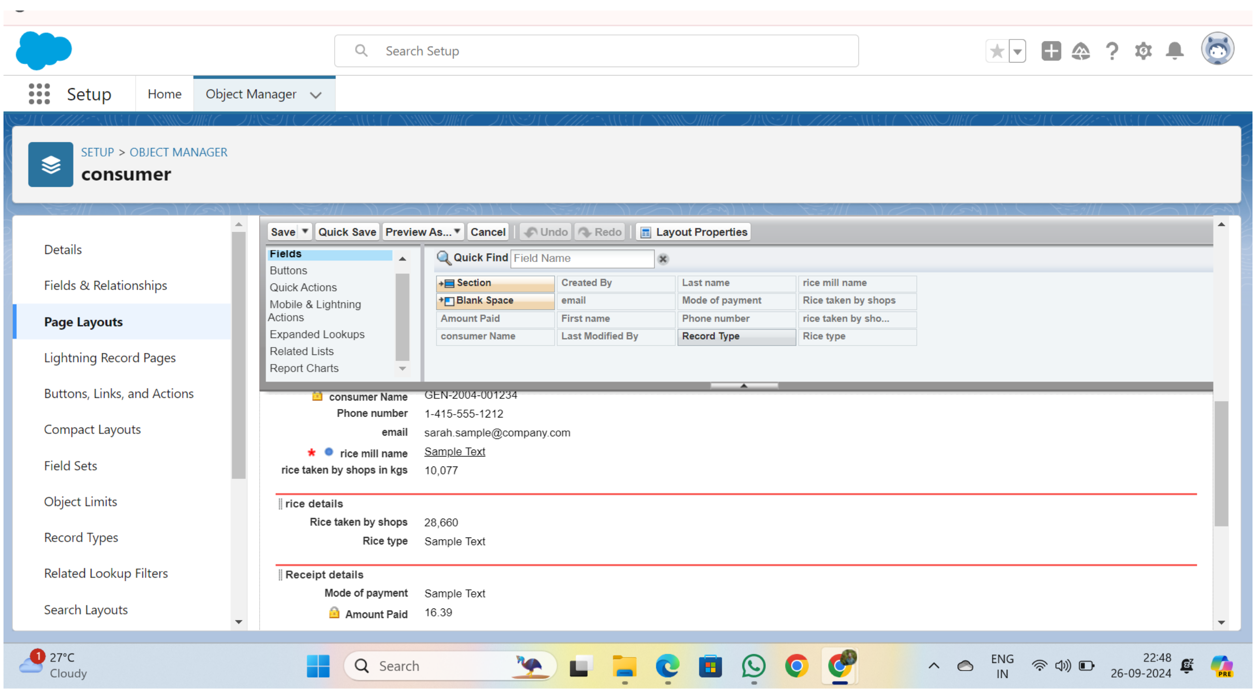
8. Follow the same process for another two sections as shown above , they are
9. One section is “ rice details ” , drag the fields that are

- Rice taken by shop, rice type.

10. Another section is “Receipt details ”, and drag the fields that are

- Mode of payment , Amount paid.

11. Then , Click SAVE.



TASK 6 : Profiles

A profile is a group/collection of settings and permissions that define what a user can do in salesforce. Profile controls “Object permissions, Field permissions, User permissions, Tab settings, App settings, Apex class access, Visualforce page access, Page layouts, Record Types, Login hours & Login IP ranges. You can define profiles by the user's job function. For example System Administrator, Developer, Sales Representative.

Types of profiles in salesforce

1. Standard profiles:

By default salesforce provides below standard profiles.

- Contract Manager
- Read Only
- Marketing User
- Solutions Manager
- Standard User
- System Administrator.

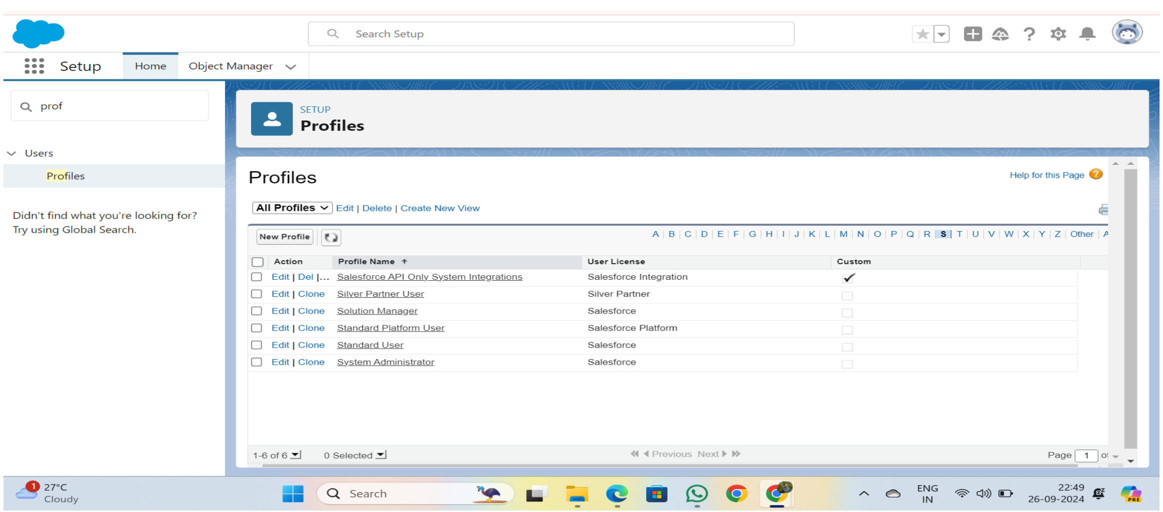
We cannot deleted standard ones

Each of these standard ones includes a default set of permissions for all of the standard objects available on the platform.

2. Custom Profiles:

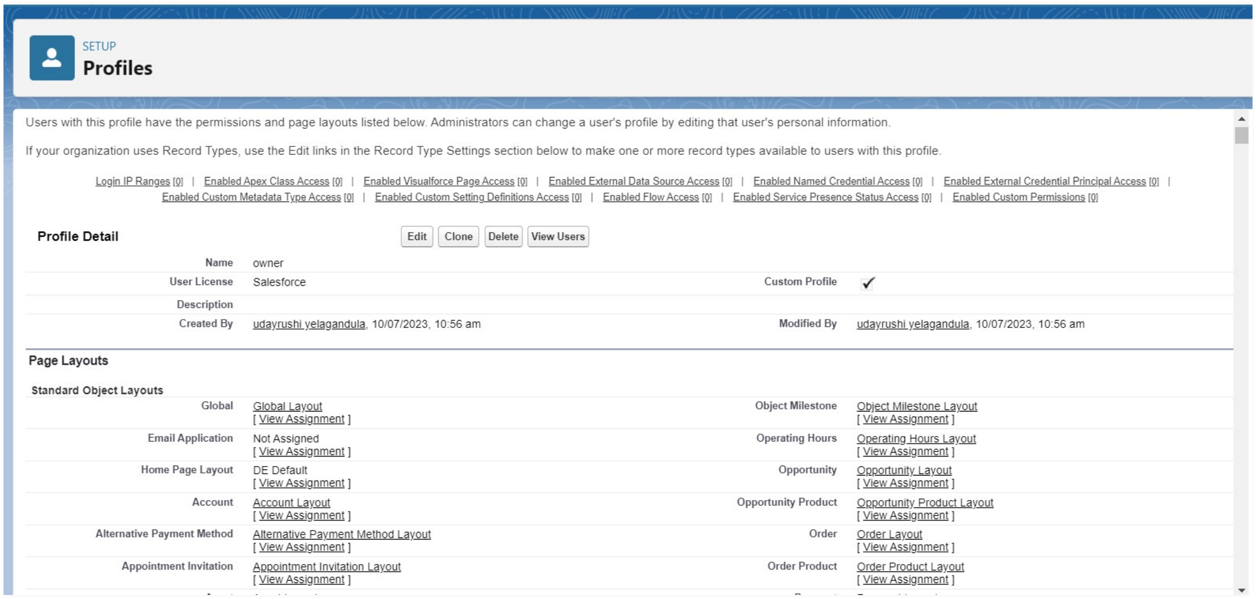
Custom ones defined by us.

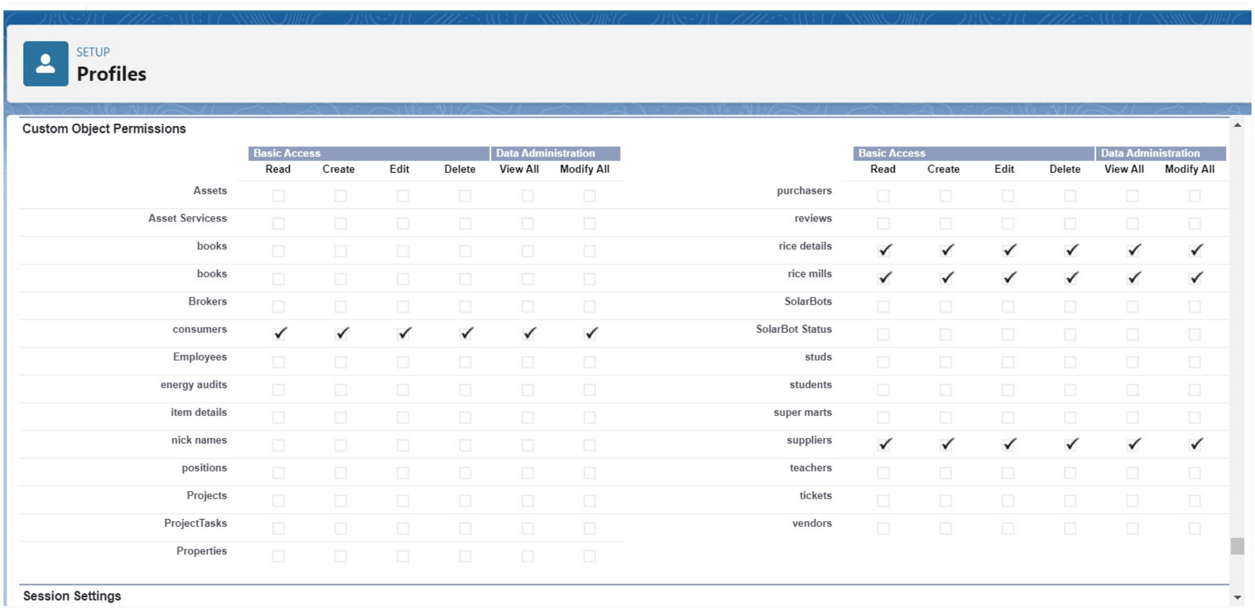
They can be deleted if there are no users assigned with that particular one.



Owner Profile

To create a new profile:

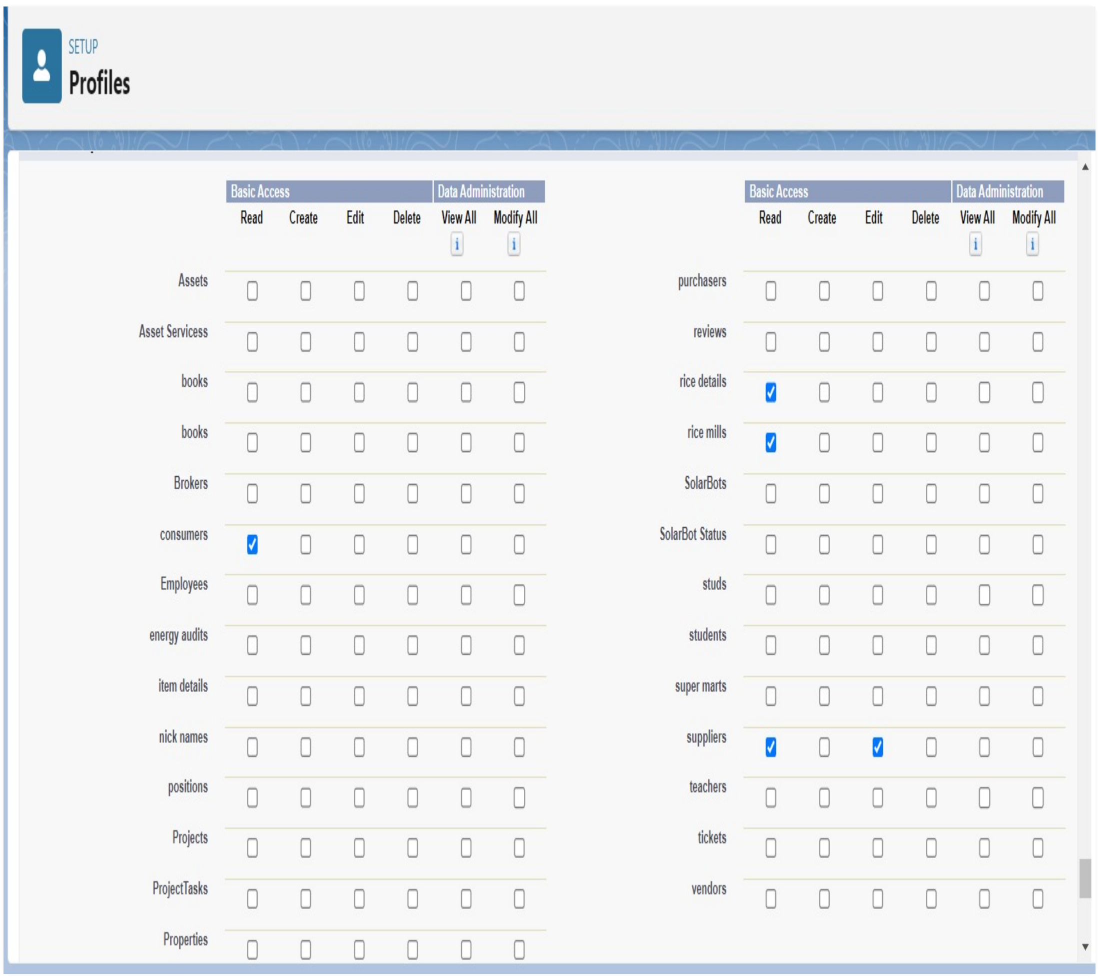
1. Go to setup >> type profiles in quick find box >> click on profiles >> clone the desired profile (Standard User) >>enter profile name (owner) >> Save.
2. 

3. Scroll down to Custom Object Permissions and Give access permissions for consumers, rice details , rice mill and suppliers objects as mentioned in the below diagram.
4. 

5. Give access and save it.

employer Profile

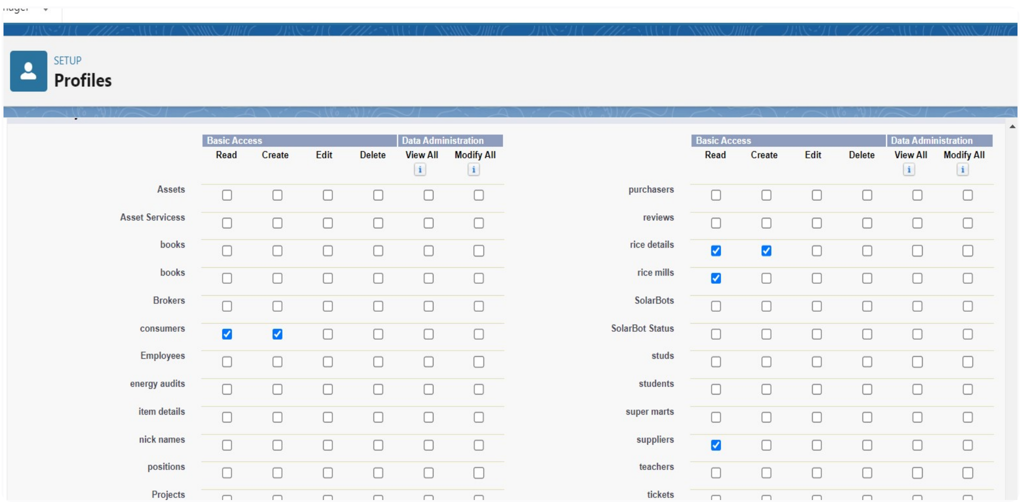
1. Go to setup >> type profiles in quick find box >>click on profiles >> clone the desired profile (Standard Platform User) >> enter profile name (employer) >> Save.
2. While still on the profile page, then click Edit.
3. Select the Custom App settings as default for the rice mill.
4. Scroll down to Custom Object Permissions and Give access permissions for consumer, rice details , rice mill and suppliers objects as mentioned in the below diagram.



5. And click save.

worker Profile

1. Go to setup >> type profiles in quick find box >> click on profiles >> clone the desired profile (Standard Platform User) >> enter profile name (worker) >> Save.
2. While still on the profile page, then click Edit.
3. Select the Custom App settings as default for the rice mill.
4. Scroll down to Custom Object Permissions and Give access permissions for consumer, rice details , rice mill and suppliers objects as mentioned in the below diagram.



5. And click save.

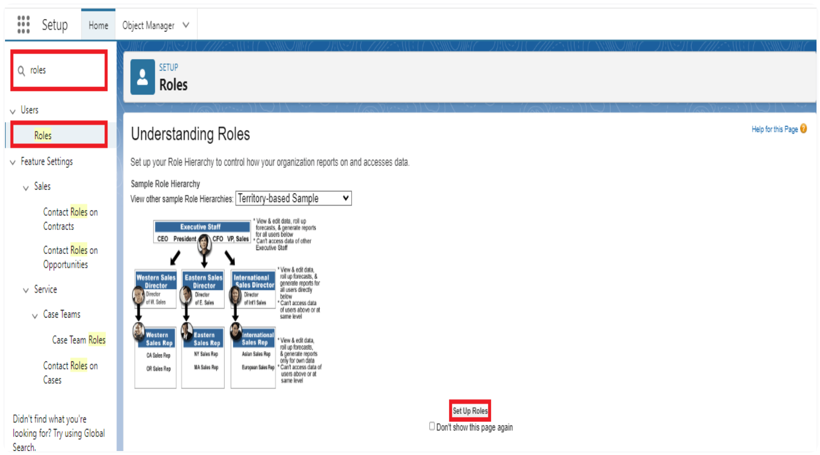
TASK 7 :Role & Role Hierarchy

A role in Salesforce defines a user's visibility access at the record level. Roles may be used to specify the types of access that people in your Salesforce organization can have to data. Simply put, it describes what a user could see within the Salesforce organization.

Creating owner Role

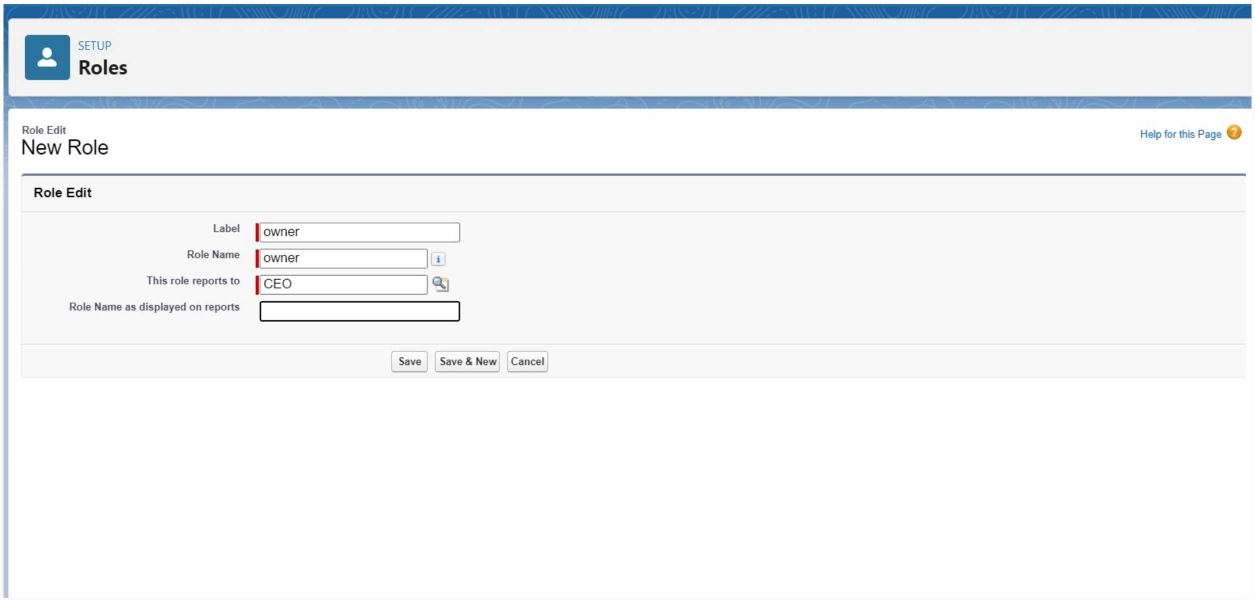
Creating owner Role:

1. Go to quick find >> Search for Roles >> click on set up roles.
2. Go to quick find >> Search for Roles >> click on set up roles.



3. Click on Expand All and click on add role under whom this role works.

4. Give Label as “owner” and Role name gets auto populated. Then click on Save.

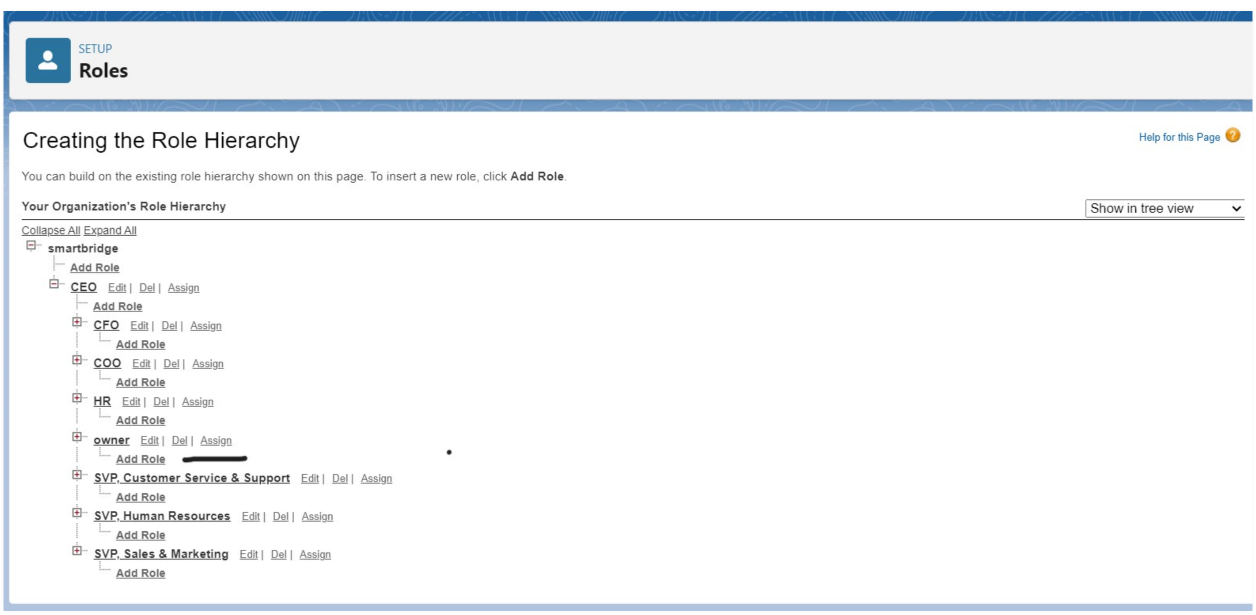


1. Click and save it.

Creating employer roles

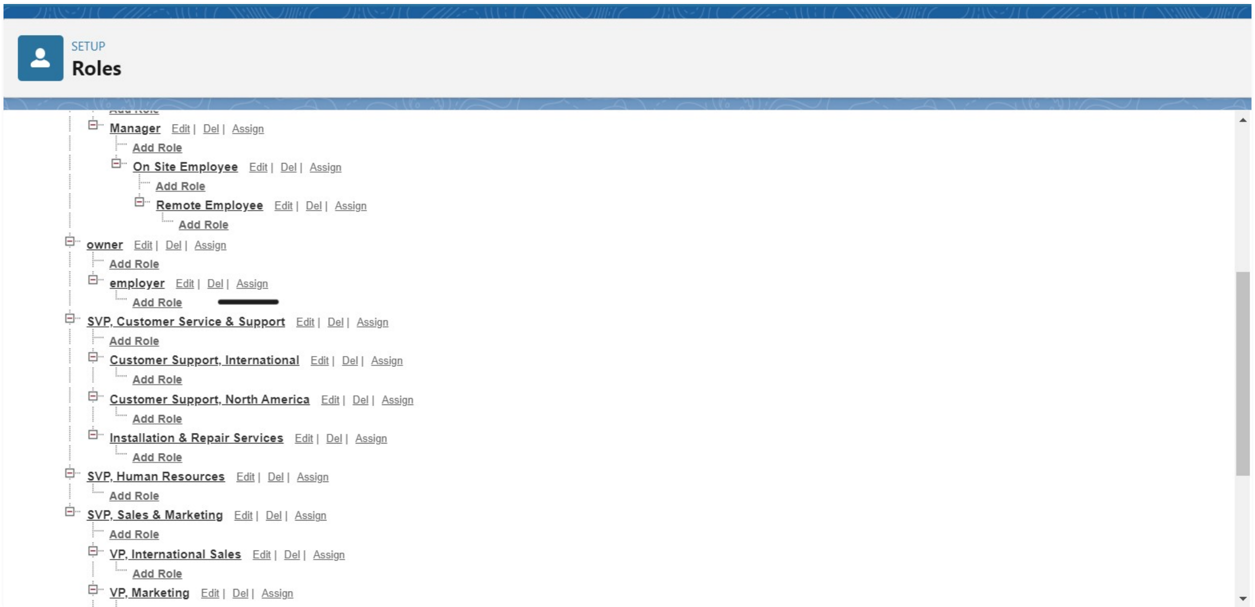
Creating another two roles under manager

1. Go to quick find >>Search for Roles >>click on set up roles.
2. Click plus on CEO role, and click add role under owner.

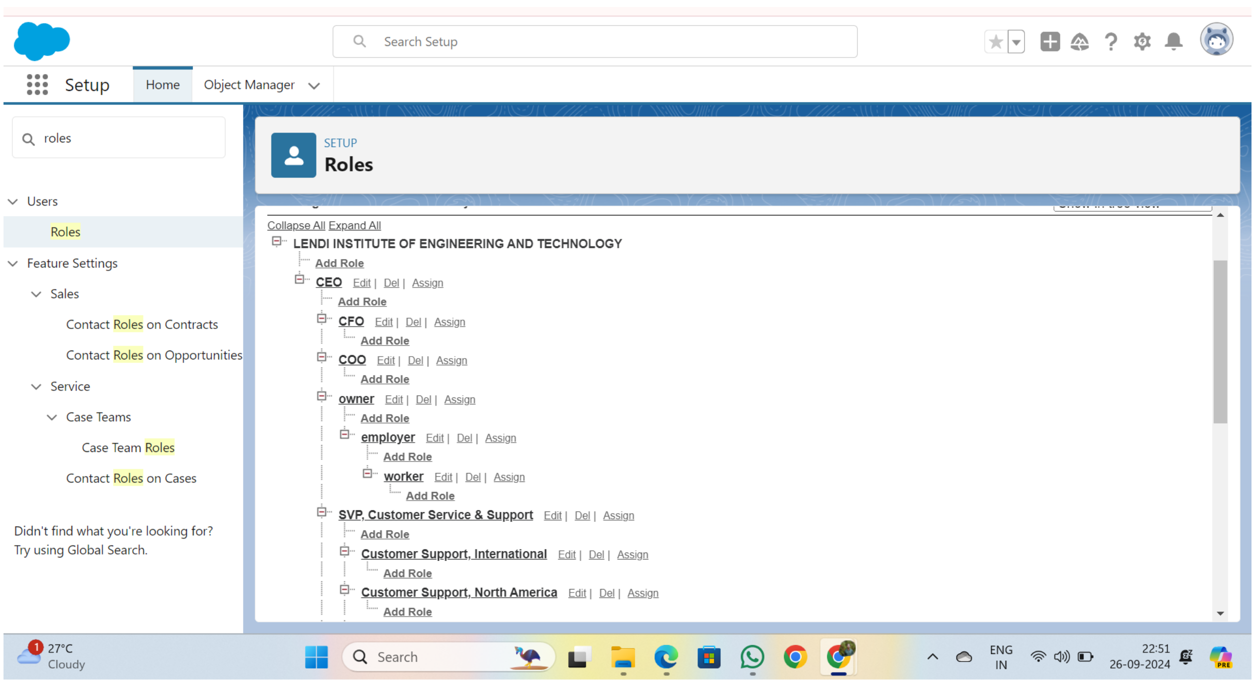


4. Give Label as “employer” and Role name gets auto populated. Then click on Save.
5. Repeat the same steps, for another role.

6. Click plus on CEO role, and click plus on owner, and click add role under employer.



7. give Label as “worker” and Role name gets auto populated. Then click on Save.

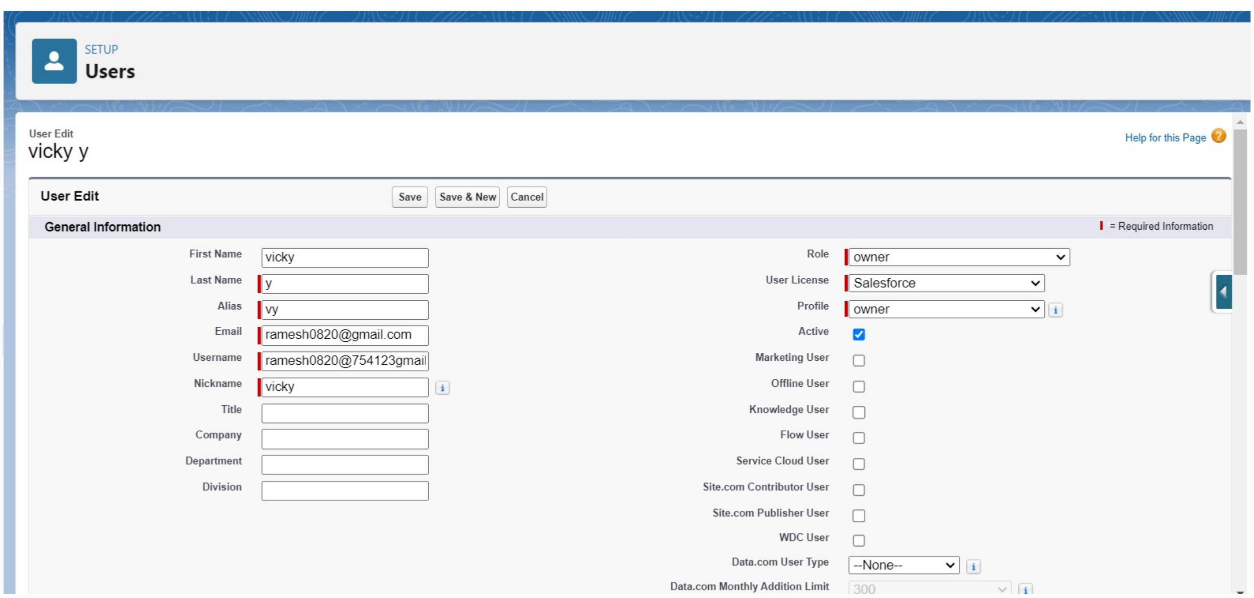


TASK 8 : Users

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

Create User

1. Go to setup >> type users in quick find box >> select users >> click New user.
2. Fill in the fields
3. First Name : vicky
4. Last Name : y
5. Alias : Give a Alias Name
6. Email id : Give your Personal Email id
7. Username : Username should be in this form: text@text.text
8. Nick Name : Give a Nickname
9. Role : owner
10. User license : Salesforce
11. Profiles : owner.



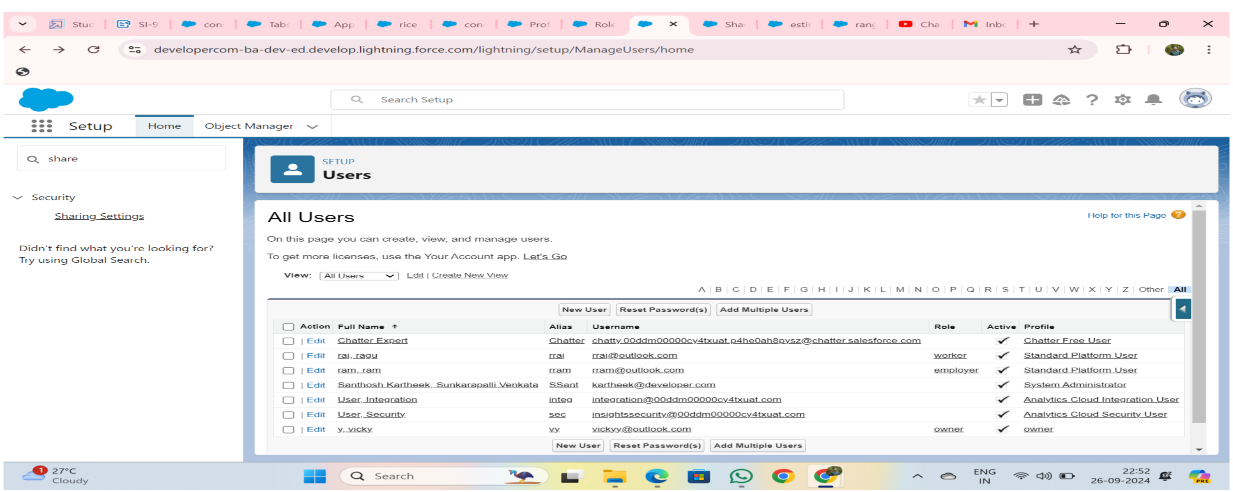
12. Save it.

creating another users

1. Go to setup ? type users in quick find box ? select users ? click New user.
2. Fill in the fields
3. First Name : ram
4. Last Name : ram
5. Alias : Give a Alias Name
6. Email id : Give your Personal Email id
7. Username : Username should be in this form: text@text.text
8. Nick Name : Give a Nickname
9. Role : employer
10. User license : Salesforce platform
11. Profiles : standard platform user.

Create Another User

1. Go to setup ? type users in quick find box ? select users ? click New user.
2. Fill in the fields
3. First Name : ragu
4. Last Name : raj
5. Alias : Give a Alias Name
6. Email id : Give your Personal Email id
7. Username : Username should be in this form: text@text.text
8. Nick Name : Give a Nickname
9. Role : worker
10. User license : Salesforce platform
11. Profiles: standard platform user.

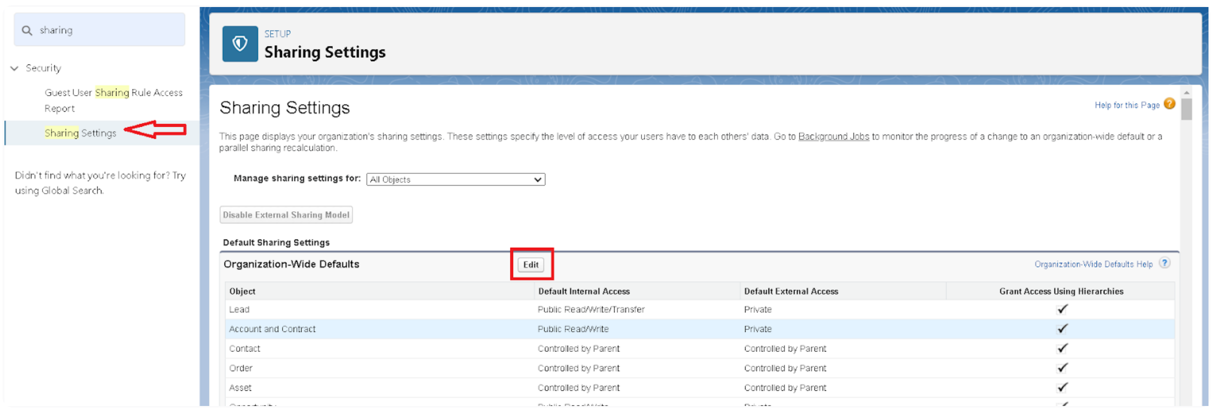


TASK 9 : Permission sets

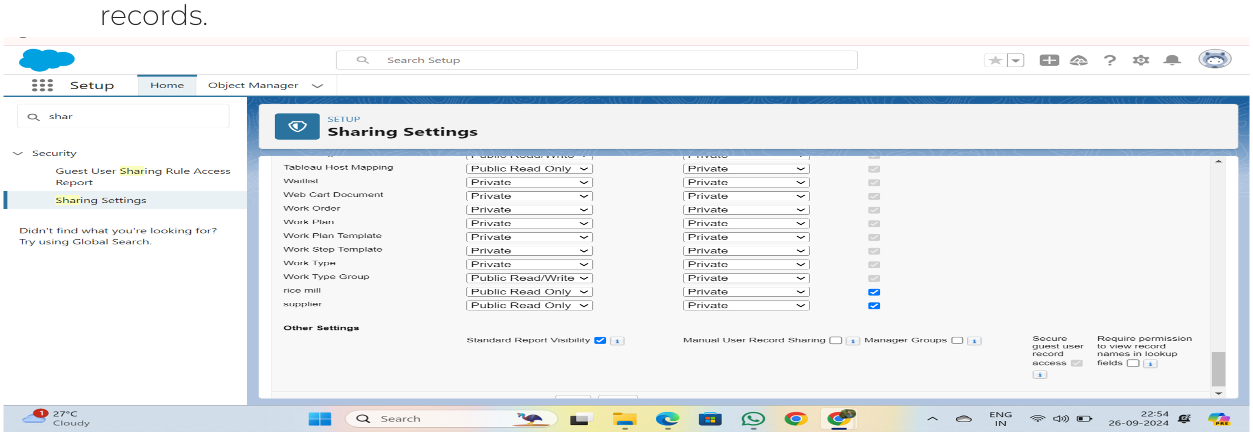
A permission set is a collection of settings and permissions that give users access to various tools and functions. Permission sets extend users' functional access without changing their profiles and are the recommended way to manage your users' permissions.

Creating OWD setting.

1. Go to setup >> type "sharing settings " in quick search >> Click edit.



2. Scroll down, change the default internal access to " public read-only" for rice mill and supplier object.
3. Click save.
4. Extra information, By these every profile has their own access, according to their profile.
5. But in our case we created roles and given the roles in such a way that the owner can see employer and worker records , and the employer can see the worker records.

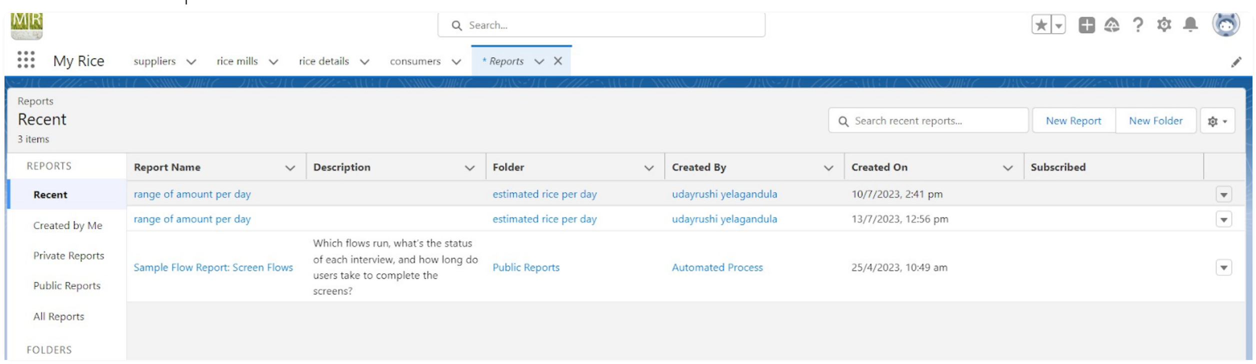


TASK 10 :

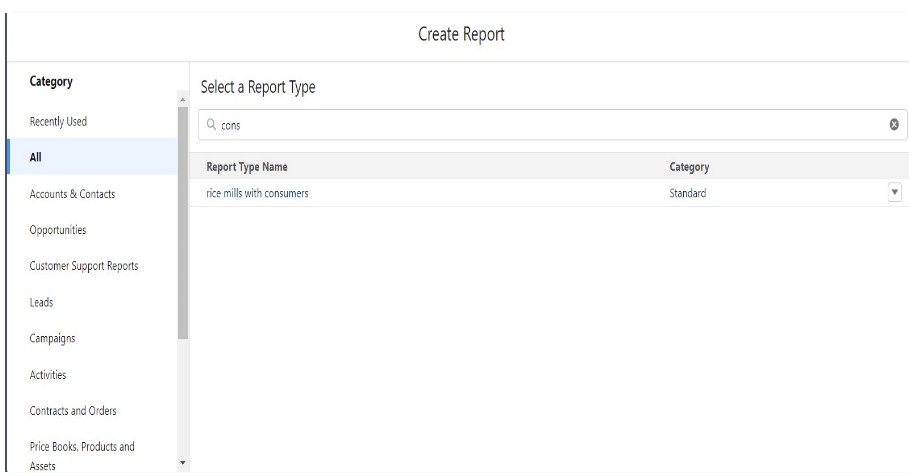
Create Report

Note : Before creating a report, create the latest “10” records in consumer objects.
Try to fill every field in each record for better experience.

1. Go to the app >>click on the reports tab
2. Click New Report.



3. select for report type, search for “rice mill with consumers” click on it. And click on start report.



1. Their outline pane is opened already, select the fields that are mentioned below in the column section.

1.consumer name

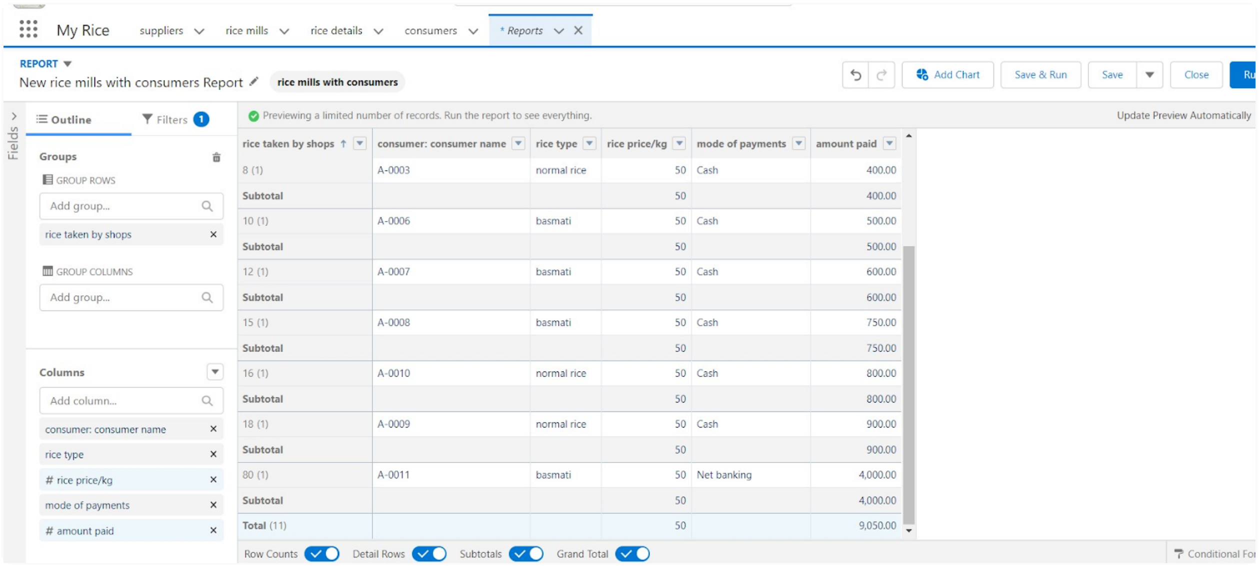
2.rice type

3.rice price/kg

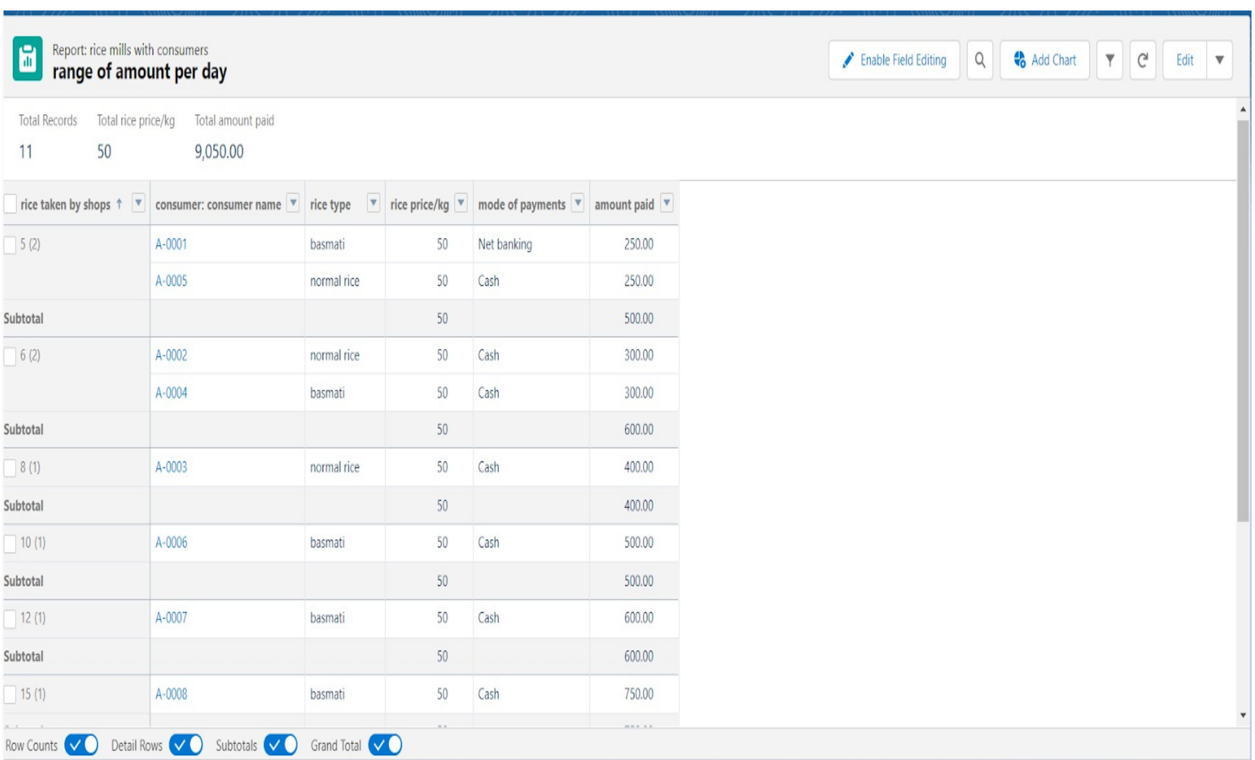
4.mode of payments

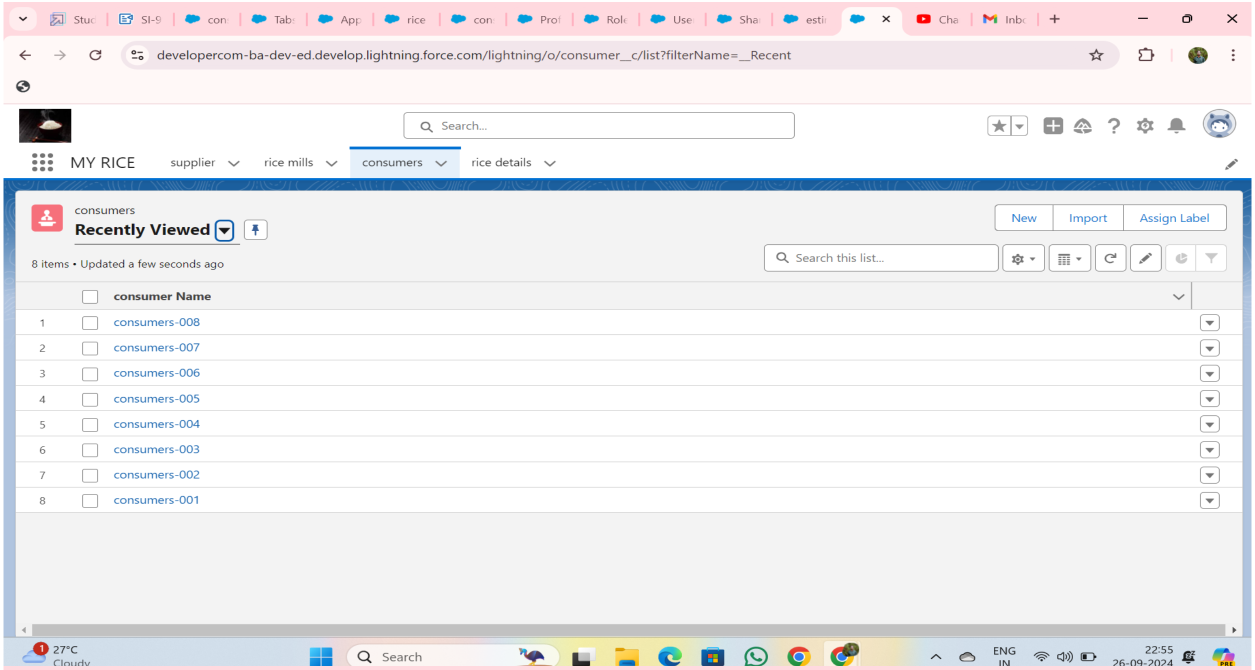
5.amount paid

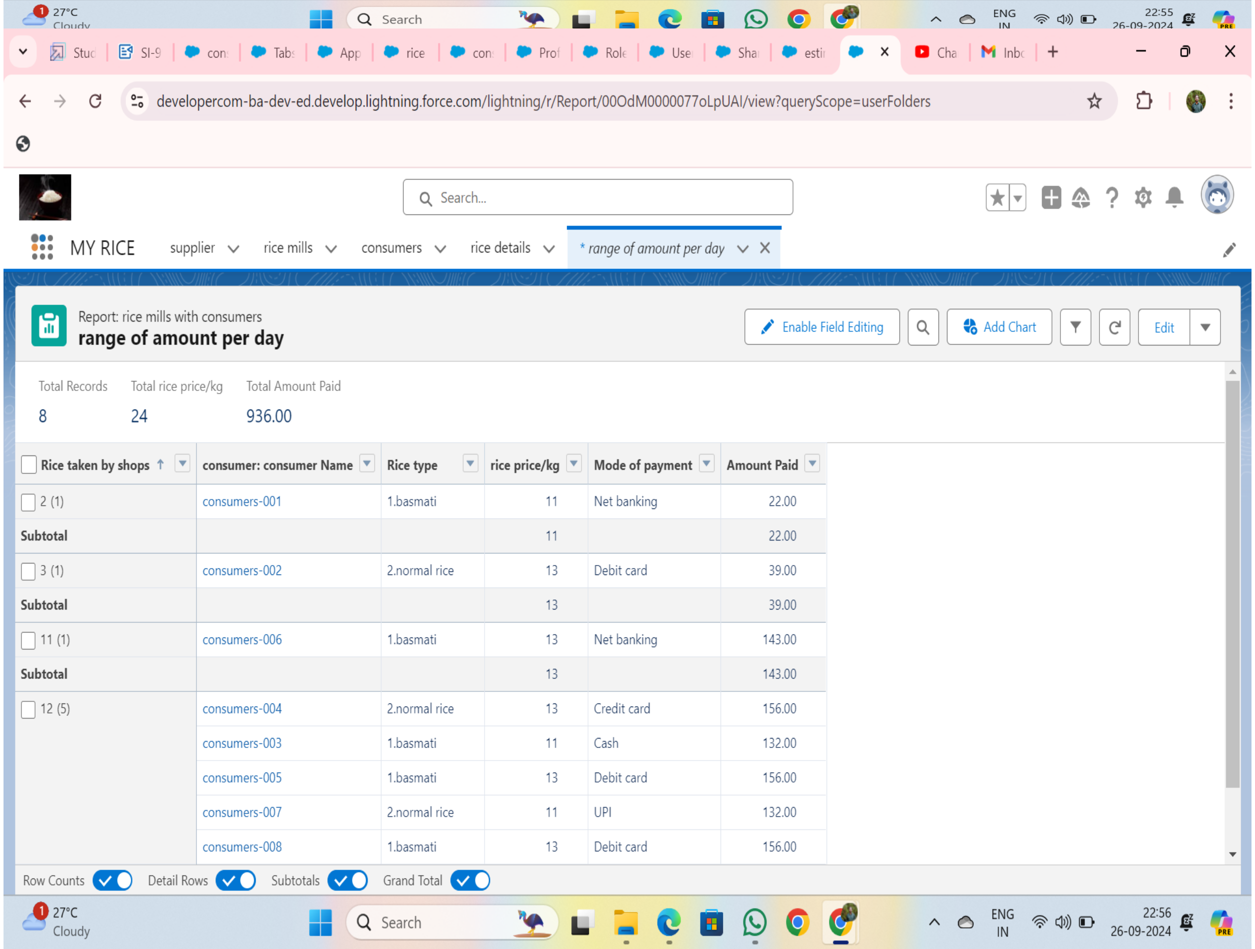
2. Remove the unnecessary fields.
3. Select the fields that are mentioned below in the GROUP ROWS section.
    1. Rice taken by shops



Click save and run and save the report as "range of amount per day".and save it.



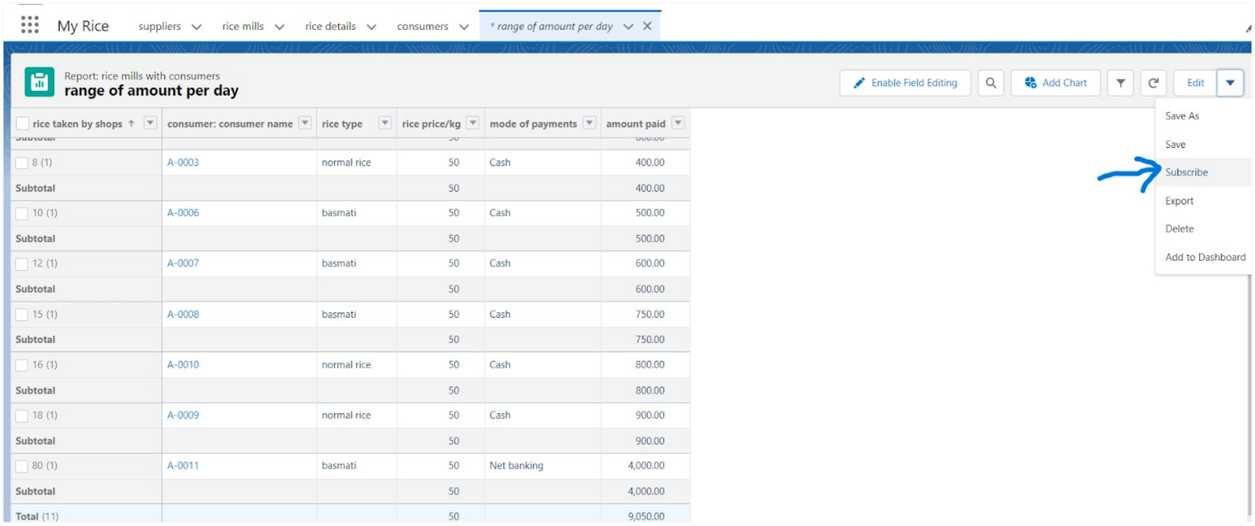




Rice taken by shops	consumer: consumer Name	Rice type	rice price/kg	Mode of payment	Amount Paid
2 (1)	consumers-001	1.basmati	11	Net banking	22.00
Subtotal			11		22.00
3 (1)	consumers-002	2.normal rice	13	Debit card	39.00
Subtotal			13		39.00
11 (1)	consumers-006	1.basmati	13	Net banking	143.00
Subtotal			13		143.00
12 (5)	consumers-004	2.normal rice	13	Credit card	156.00
	consumers-003	1.basmati	11	Cash	132.00
	consumers-005	1.basmati	13	Debit card	156.00
	consumers-007	2.normal rice	11	UPI	132.00
	consumers-008	1.basmati	13	Debit card	156.00

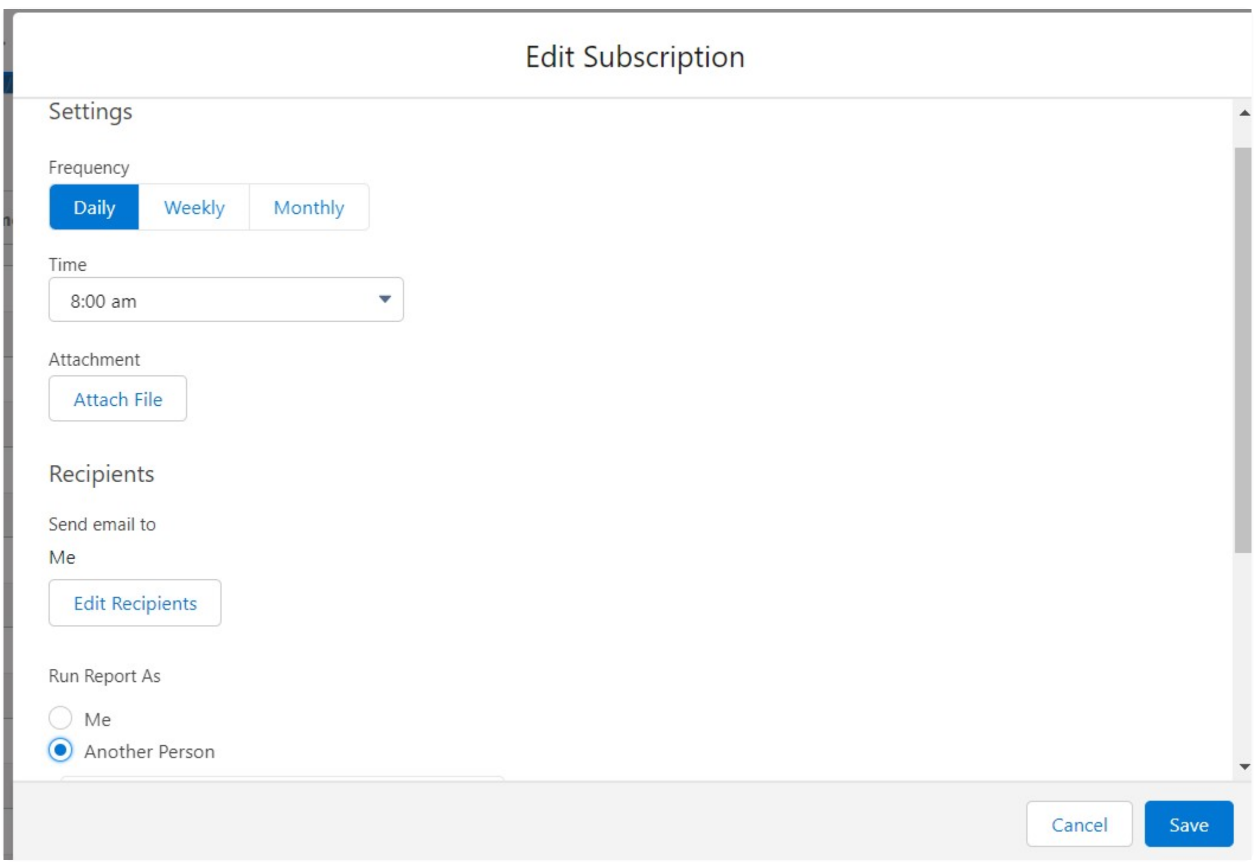
Sharing report to owner

1. Click edit drop down and select subscribe option



rice taken by shops	consumer: consumer name	rice type	rice price/kg	mode of payments	amount paid
8 (1)	A-0003	normal rice	50	Cash	400.00
Subtotal			50		400.00
10 (1)	A-0006	basmati	50	Cash	500.00
Subtotal			50		500.00
12 (1)	A-0007	basmati	50	Cash	600.00
Subtotal			50		600.00
15 (1)	A-0008	basmati	50	Cash	750.00
Subtotal			50		750.00
16 (1)	A-0010	normal rice	50	Cash	800.00
Subtotal			50		800.00
18 (1)	A-0009	normal rice	50	Cash	900.00
Subtotal			50		900.00
80 (1)	A-0011	basmati	50	Net banking	4,000.00
Subtotal			50		4,000.00
Total (11)			50		9,050.00

2. Follow as per below image.

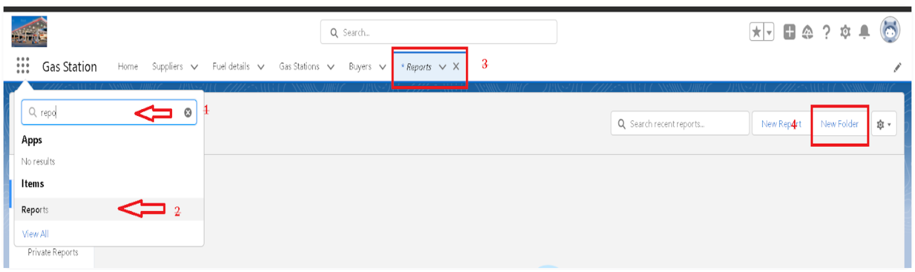
3. 

4. After selecting the run report as a “another person” select your personal account or whom you want to send that mail to.
5. Click save.

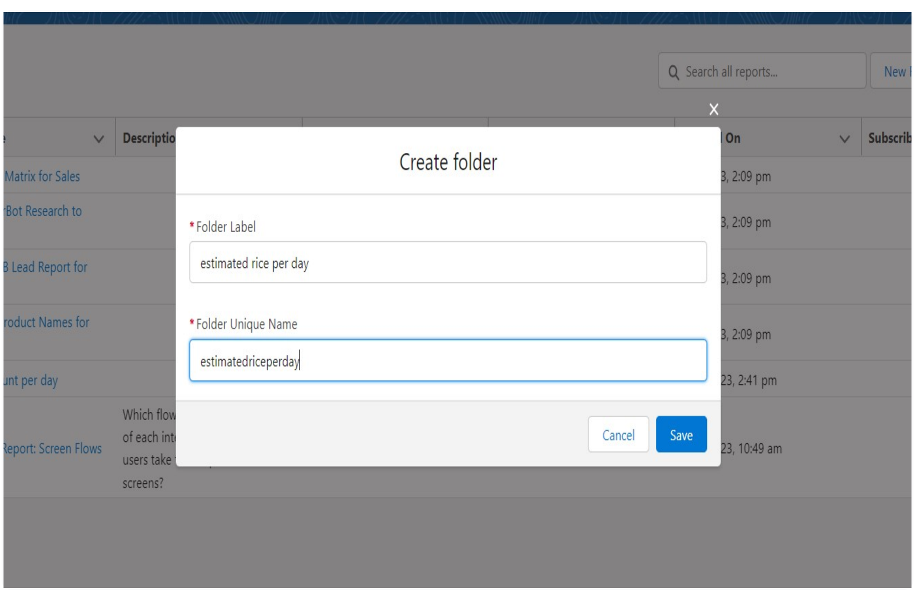
NOTE: The owner gets daily email notification of that rice mill report.so that he can see all data remotely.

create a report folder

1. Click on the app launcher and search for reports.
2. Double click on the report, “ reports tab” will be auto populated in the navigation bar.
3. Click on the report tab, click on the new folder.



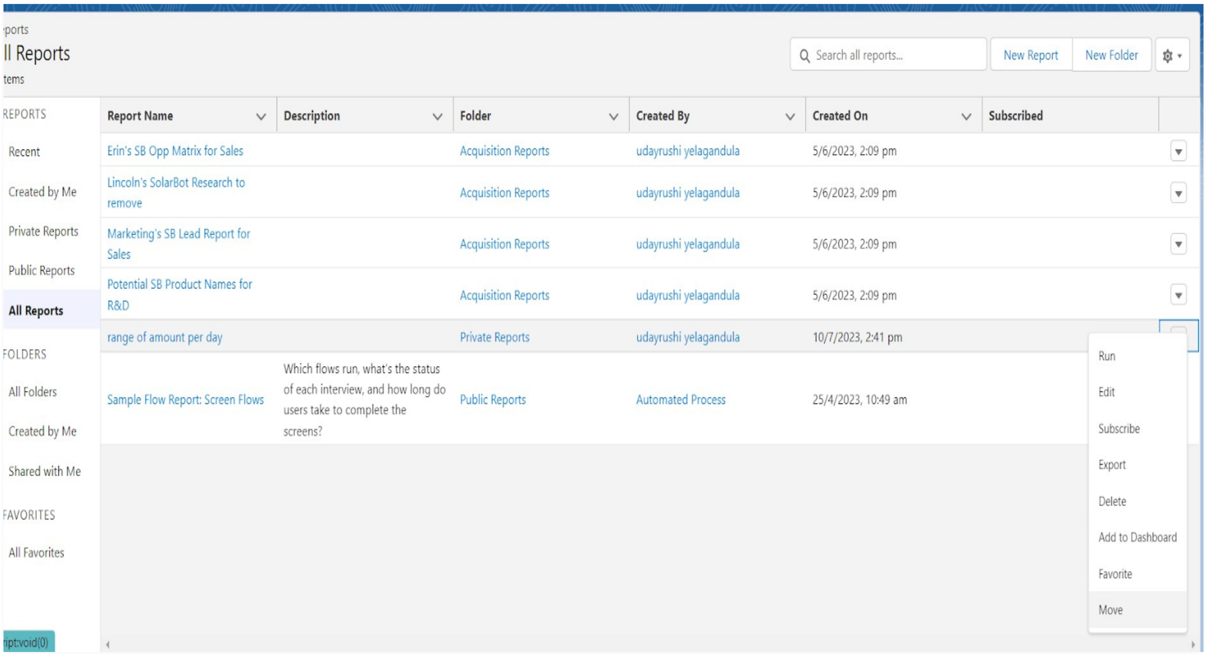
4. Give the Folder label as “estimated rice per day ”, Folder unique name will be auto populated.
5. Click save.



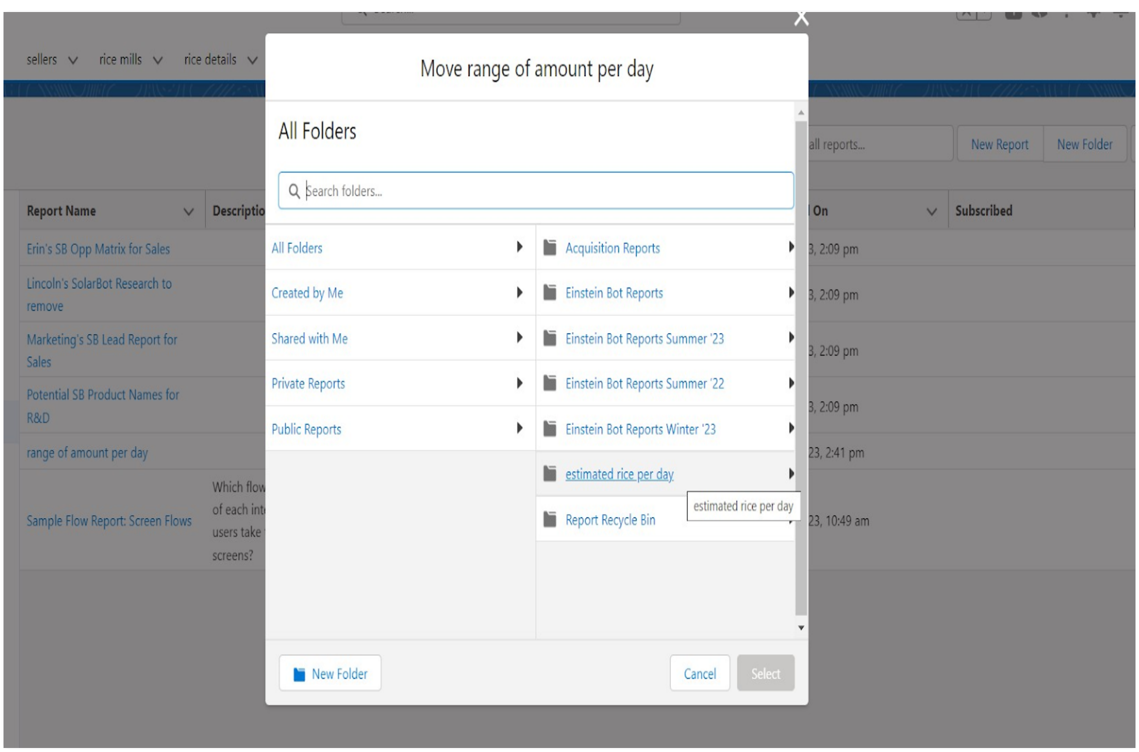
1.navigate to app launcher and click reports on that.

2.click all reports.

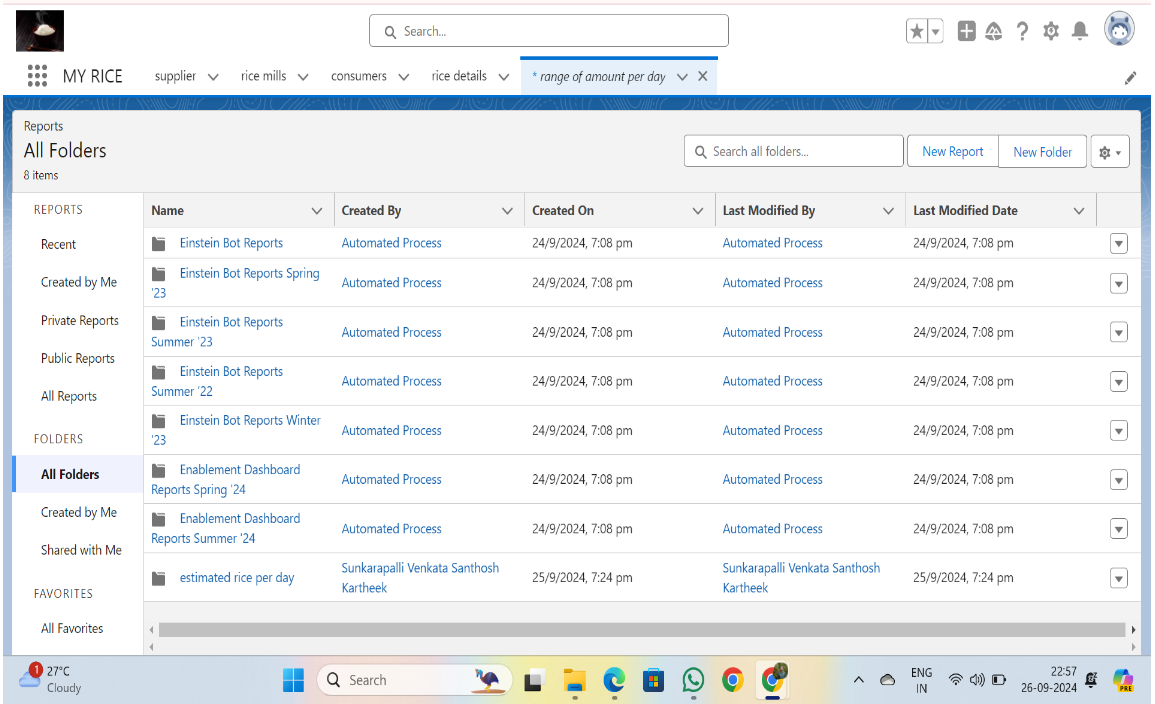
3. Select the range of amount per day drop down in that click move.



5. Select estimated rice per day folder and select folder.



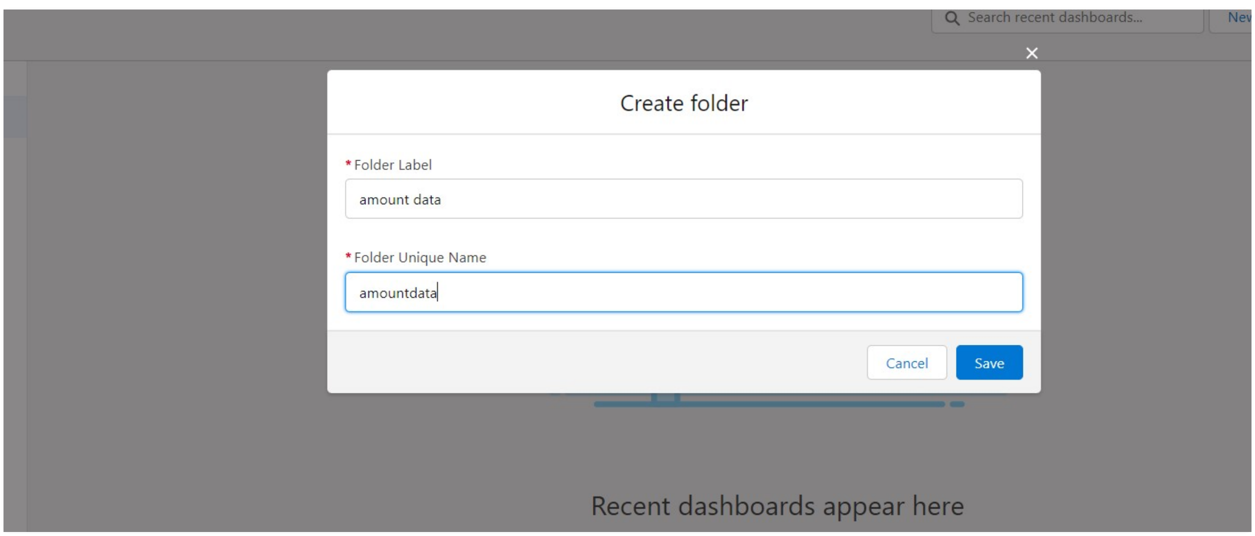
Note: if you want to see the report which you have created then go to reports - all folders - estimated rice per day - your report will appear in this way.



TASK 11 :Dashboards

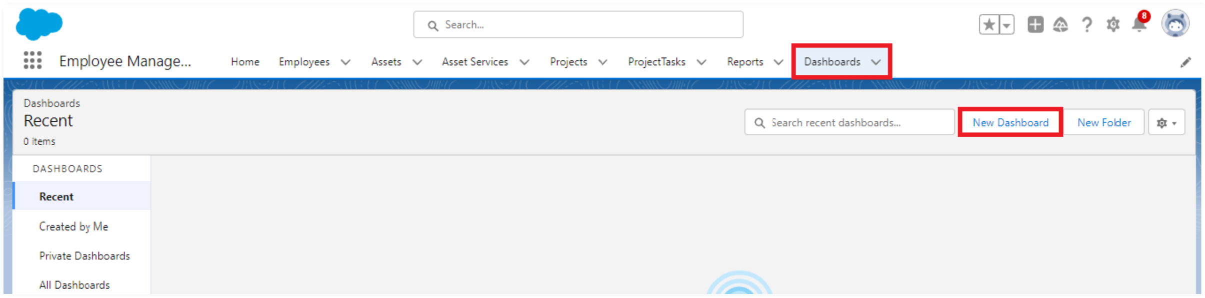
Dashboards help you visually understand changing business conditions so you can make decisions based on the real-time data you've gathered with reports. Use dashboards to help users identify trends, sort out quantities, and measure the impact of their activities. Before building, reading, and sharing dashboards, review these dashboard basics.

Create Dashboard Folder

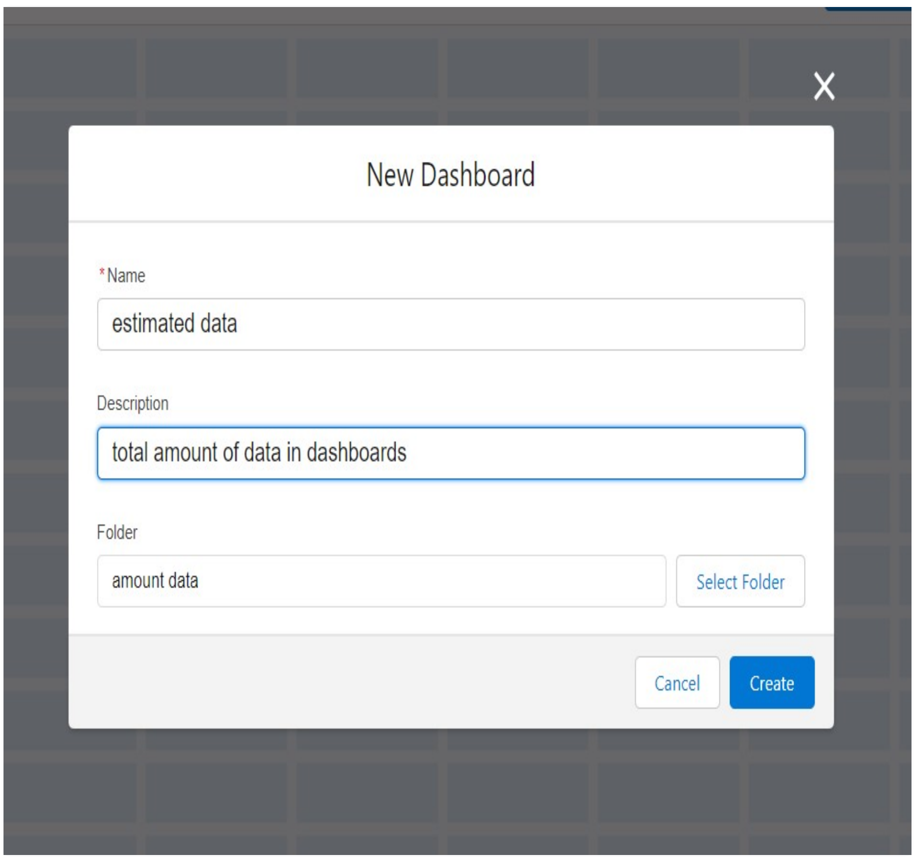
1. Click on the app launcher and search for the dashboard.
2. Click on the dashboard tab.
3. Click the new folder, give the folder label as " amount data dashboard".
4. Folder unique names will be auto populated.
5. Click save.
6. 

Create Dashboard

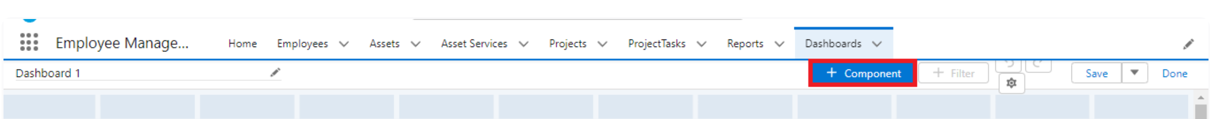
1. Go to the app >> click on the Dashboards tabs.



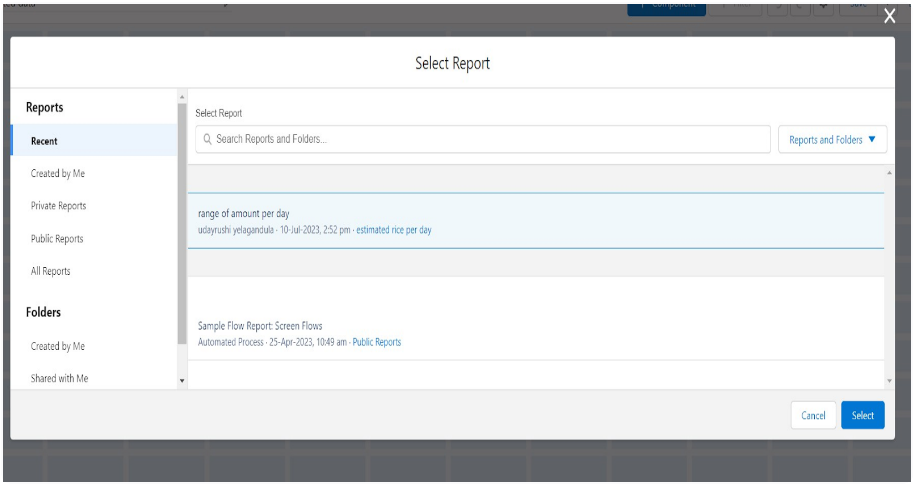
2. Give a Name and select the folder that was created, and click on create.



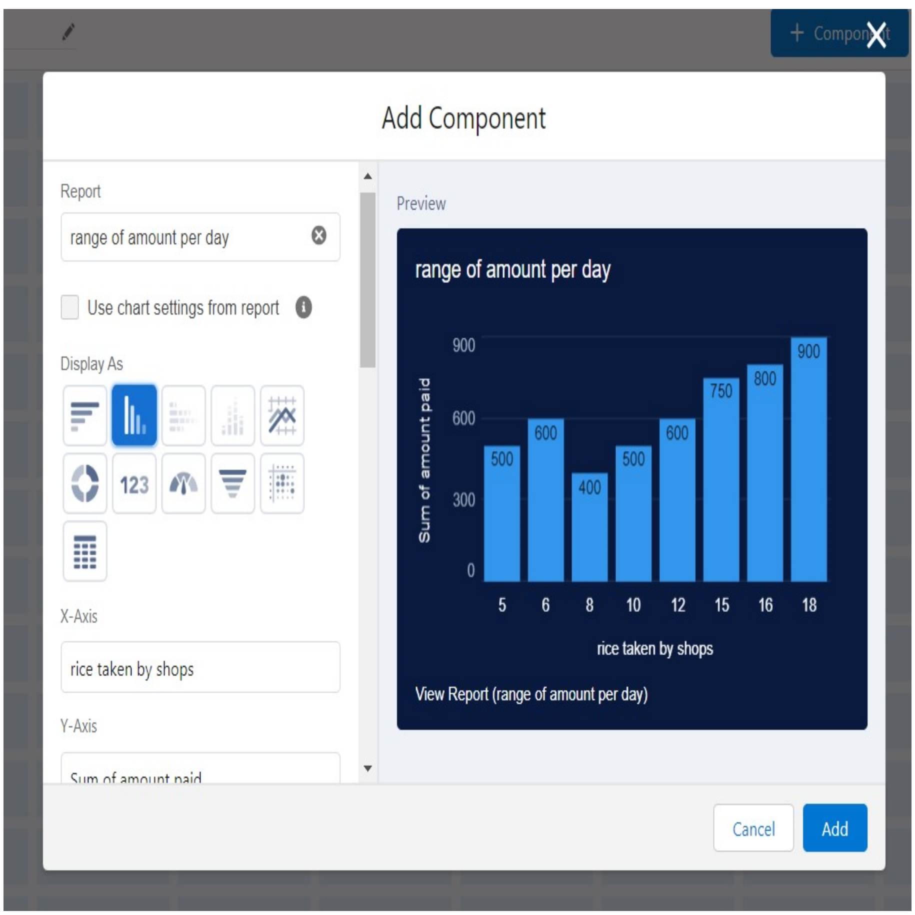
1. Select add component.



1. Select a Report and click on select.



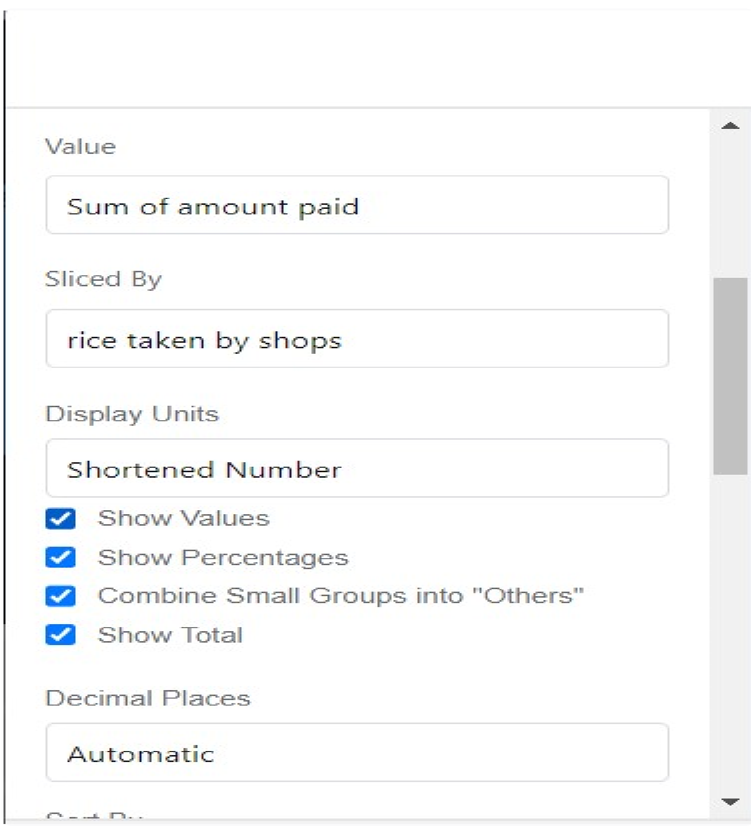
1. Preview is shown below.



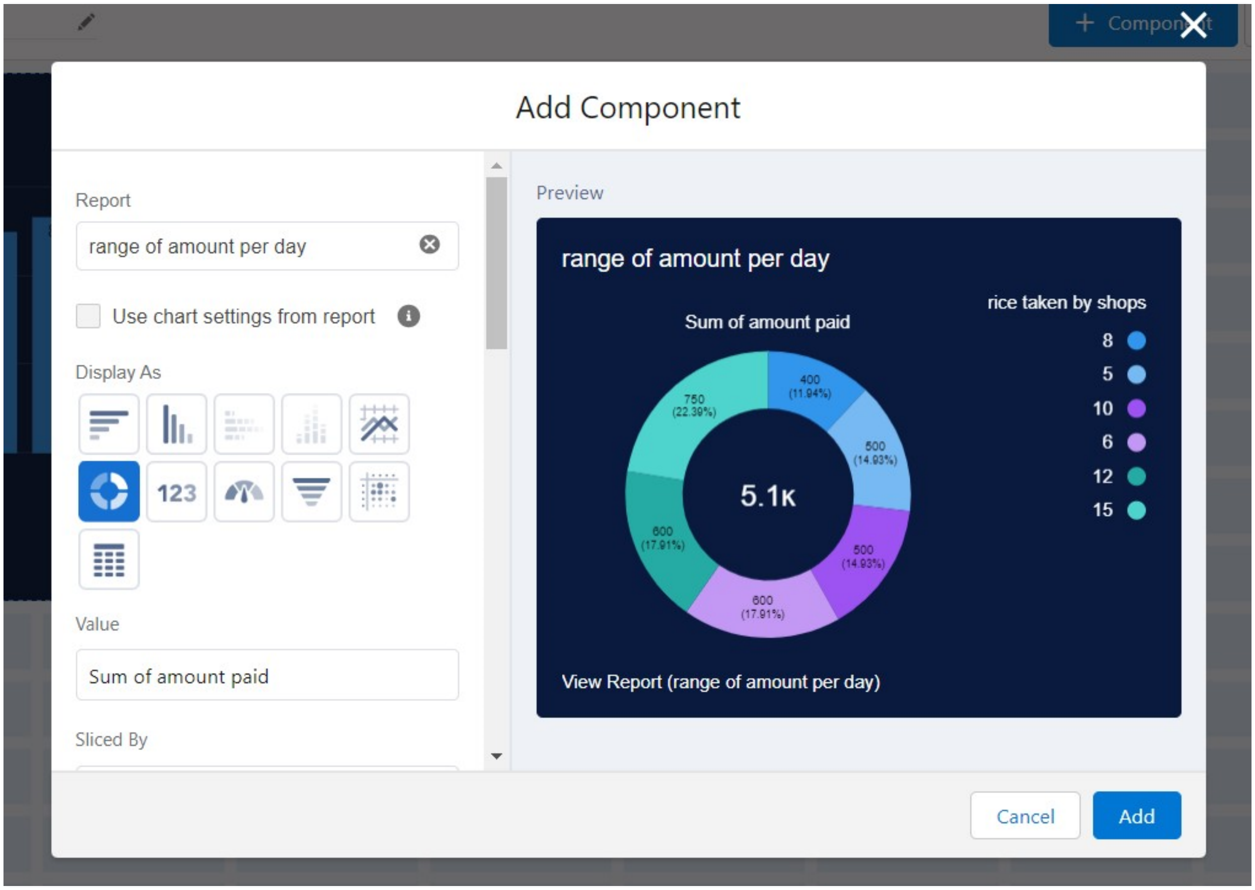
Display as>> vertical bar chart
X-axis >> rice taken by shops
Y-axis >> sum of amount
Y-axis range >> automatic
Sort by >> rice taken by shops
Component theme >> dark.

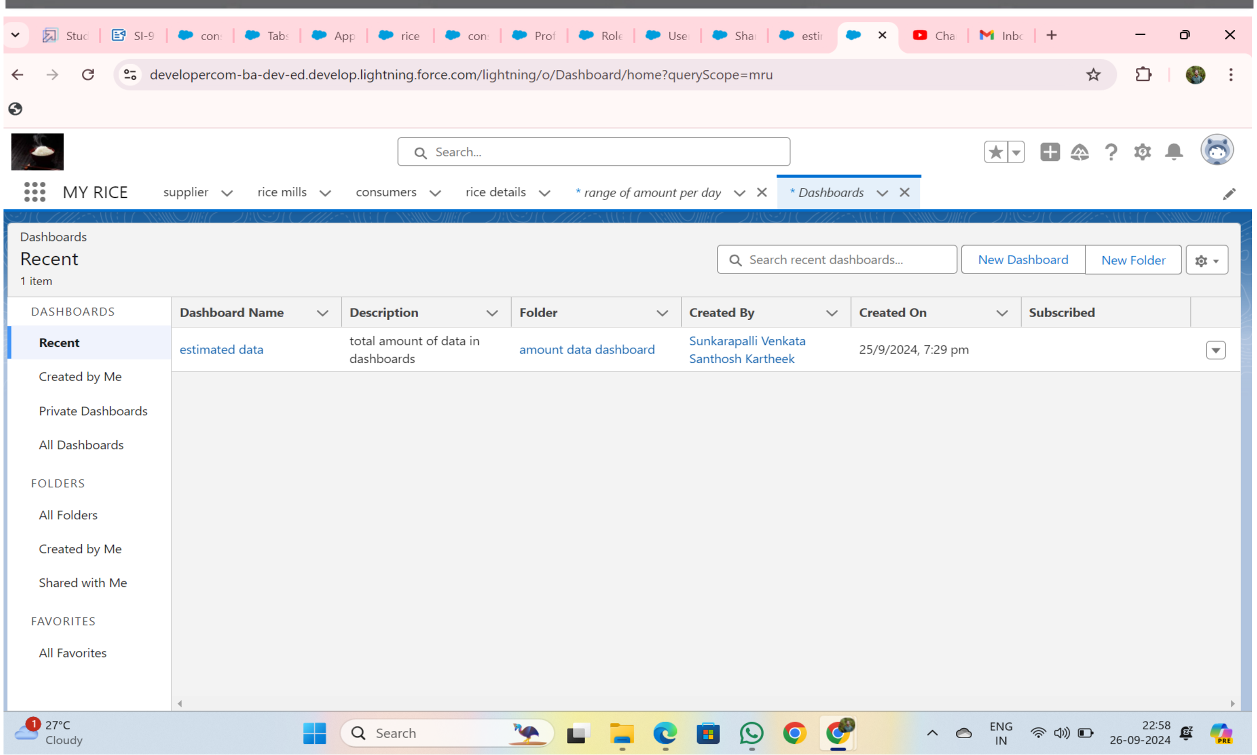
Add the component

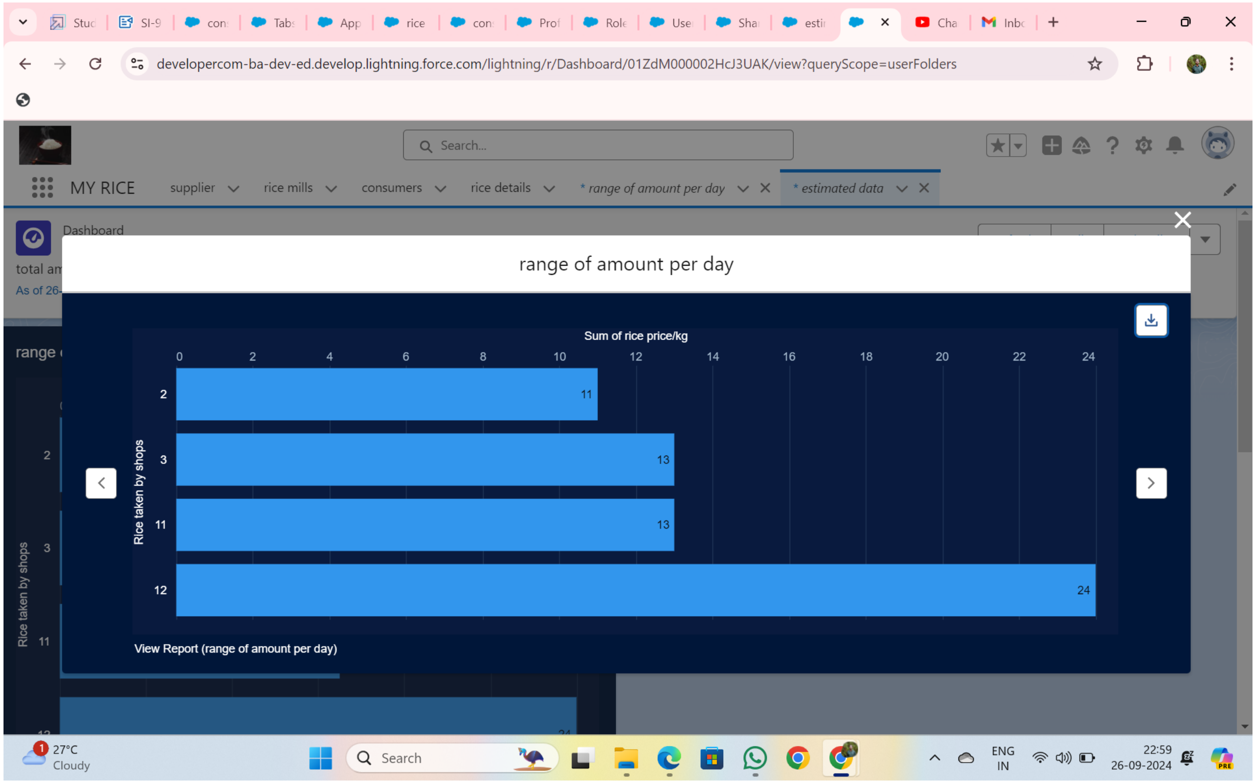
Again select add component with above same steps
1.display as donut chart
2.sort by >> sum of amount
3.title>>range of amount per day
4.component theme dark

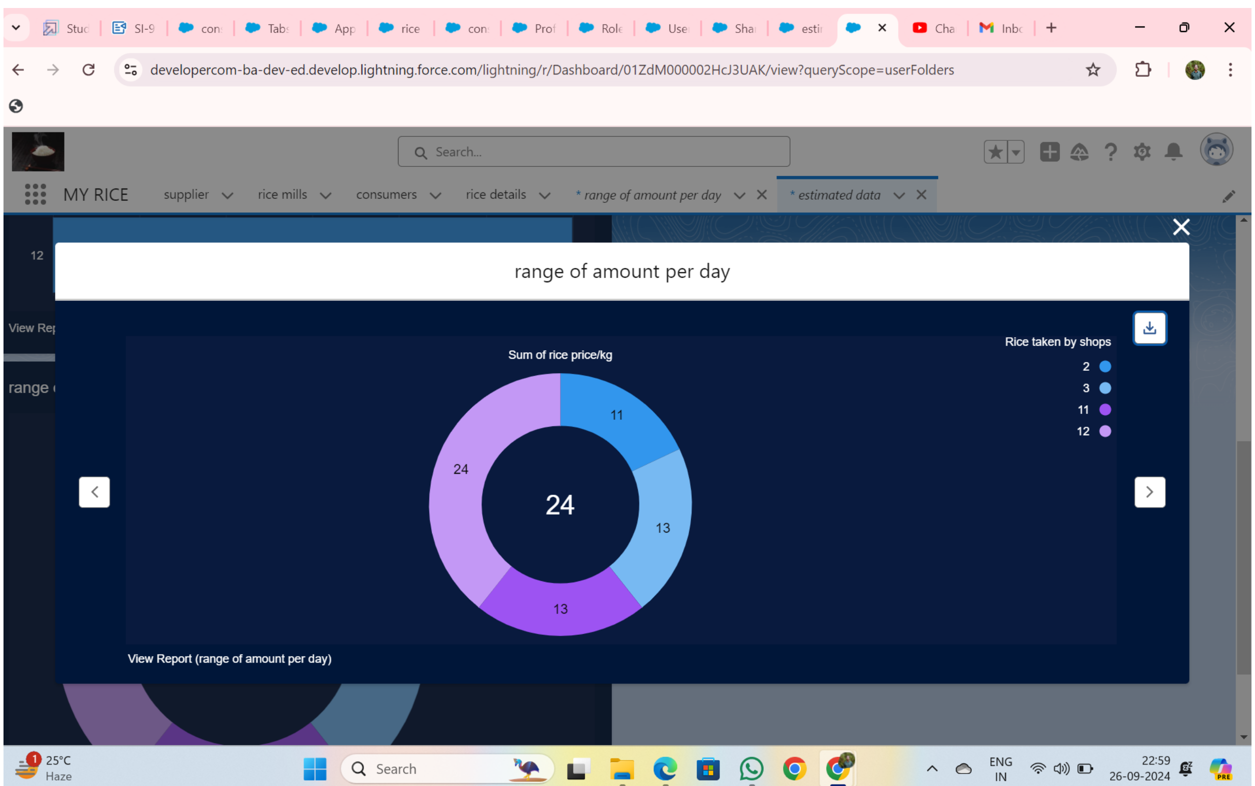


Click add.
Click save and done.


Add Component
Report
range of amount per day
Use chart settings from report
Display As
123
Value
Sum of amount paid
Sliced By
Preview
range of amount per day
Sum of amount paid
rice taken by shops
8
5
10
6
12
15
400 (11.94%)
500 (14.93%)
500 (14.93%)
600 (17.91%)
600 (17.91%)
750 (22.39%)
5.1K
View Report (range of amount per day)
Cancel
Add


developercom-ba-dev-ed.develop.lightning.force.com/lightning/o/Dashboard/home?queryScope=mru
Search...
MY RICE
supplier
rice mills
consumers
rice details
* range of amount per day
* 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
FAVORITES
All Favorites
Dashboard Name
Description
Folder
Created By
Created On
Subscribed
estimated data
total amount of data in dashboards
amount data dashboard
Sunkarapalli Venkata Santhosh Kartheek
25/9/2024, 7:29 pm
27°C
Cloudy
Search
ENG
IN
22:58
26-09-2024


range of amount per day
Sum of rice price/kg
Rice taken by shops
View Report (range of amount per day)


range of amount per day
Sum of rice price/kg
Rice taken by shops
24
View Report (range of amount per day)

TASK 12 : APEX

Apex is a strongly typed, object-oriented programming language that allows developers to execute flow and transaction control statements on the Lightning platform server in conjunction with calls to the Lightning Platform? API. Using syntax that looks like Java and acts like database stored procedures, Apex enables developers to add business logic to most system events, including button clicks, related record updates, and Visualforce pages. Apex code can be initiated by Web service requests and from triggers on objects.

It is as similar as java i.e, it also supports OOP(Object oriented programming) like Classes, objects, methods.

Creating Classes :

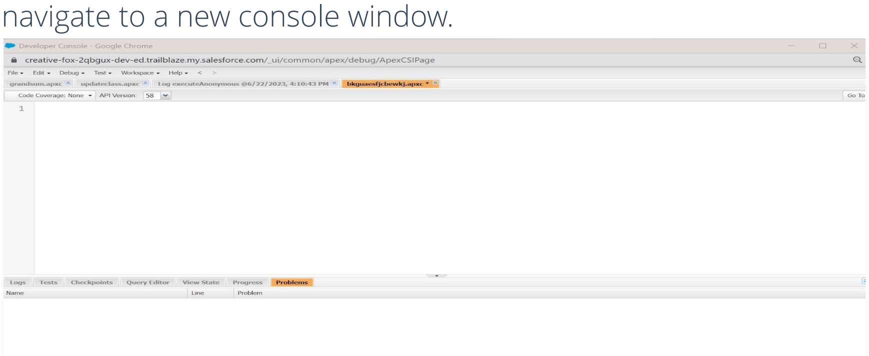
Apex classes are modeled on their counterparts in Java. You'll define, instantiate, and extend classes, and you'll work with interfaces, Apex class versions, properties, and other related class concepts.

- **Class:**
  As in Java, you can create classes in Apex. A class is a template or blueprint from which objects are created. An object is an instance of a class.

- **Object**
  Object is an instance of a class, where it can access all the properties that are present in a class i.e, variables and methods.

Creating an Apex Class(ConsumerRecord)

1. Login to the Salesforce account and navigate to the gear account in the top right corner.
2. Then we can see the Developer console. Click on the developer console and you will navigate to a new console window.

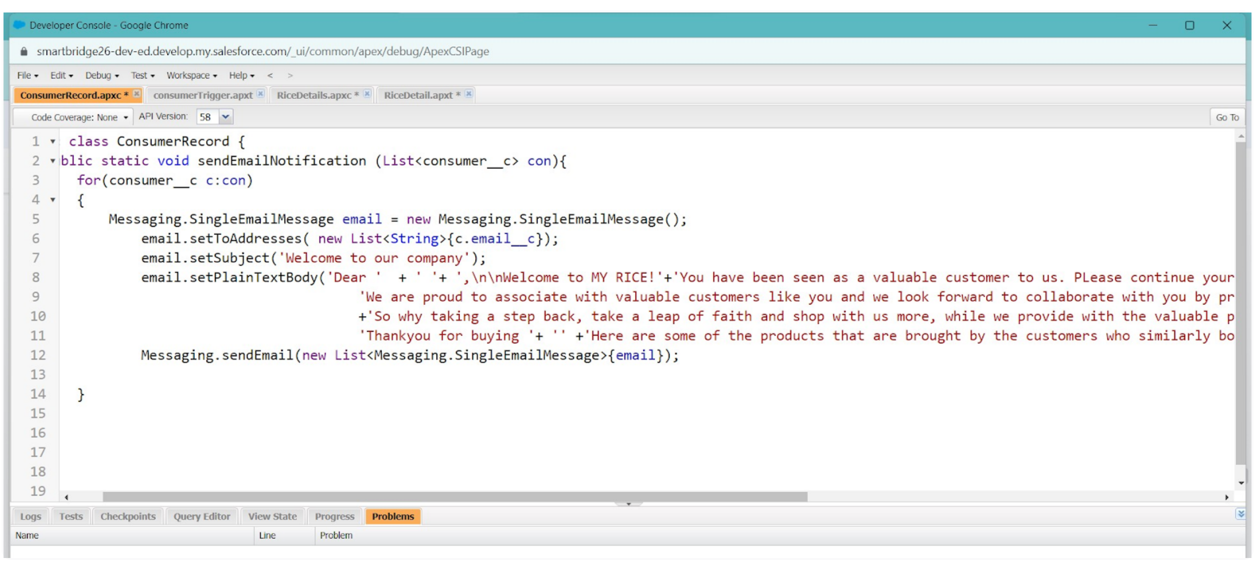


3. Then you can see many tools in the Toolbar of the new console window. Click on File, New and Apex Class.
4. Enter the name of the class(ConsumerRecord) to create a new class file.

Code Snippet :

```
class ConsumerRecord {
    public static void sendEmailNotification (List<consumer__c> con){
        for(consumer__c c:con)
        {
            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
                email.setToAddresses( new List<String>{c.email__c});
                email.setSubject('Welcome to our company');
                email.setPlainTextBody('Dear '  + ' '+ ',\n\nWelcome to MY RICE!'+'You have been seen as a valuable customer to us. PLease continue your journey with us, while we try to provide you with good quality resources.'+'\n'+
                                    'We are proud to associate with valuable customers like you and we look forward to collaborating with you by providing more and more exciting discounts or even product offers too.' + '\n'
                                    +'So why taking a step back, take a leap of faith and shop with us more, while we provide with the valuable products and offers'+'\n'+'\n'+'\n'+
                                    'Thankyou for buying '+ '' +'Here are some of the products that are brought by the customers who similarly bought products like this'+'\n\n');
                Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{email});

        }
    }
}
```



Creating an Apex Trigger

How to create a new trigger :

While still in the trailhead account, navigate to the gear icon in the top right corner.
Click on developer console and you will be navigated to a new console window.
Click on the File menu in the toolbar, and click on new? Trigger.
Enter the trigger name and the object to be triggered.

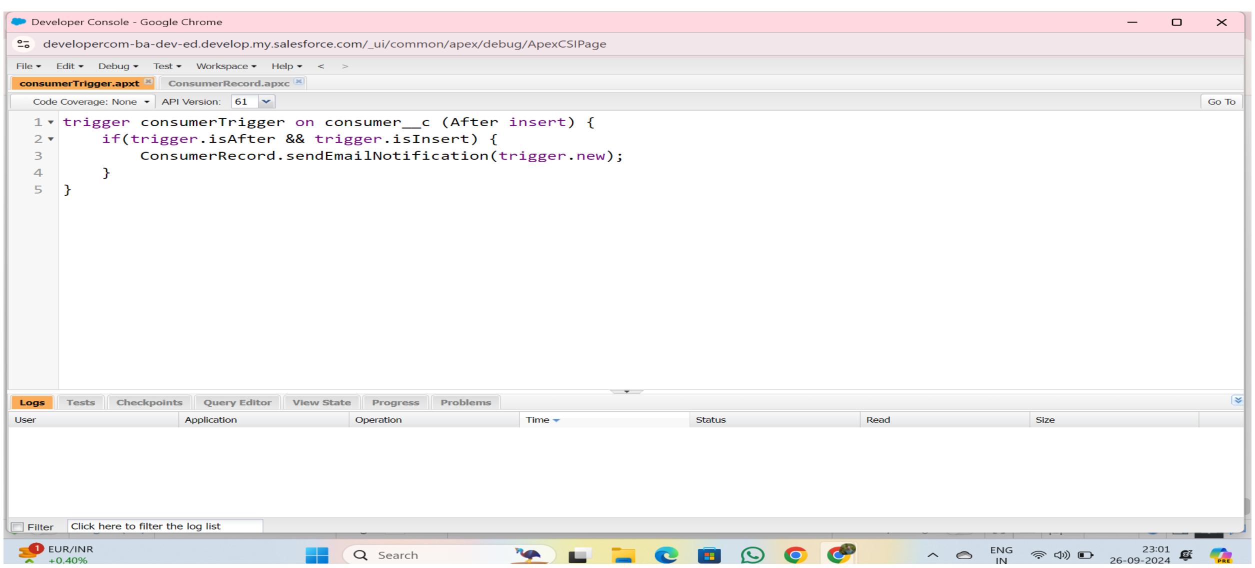
Syntax For creating trigger :

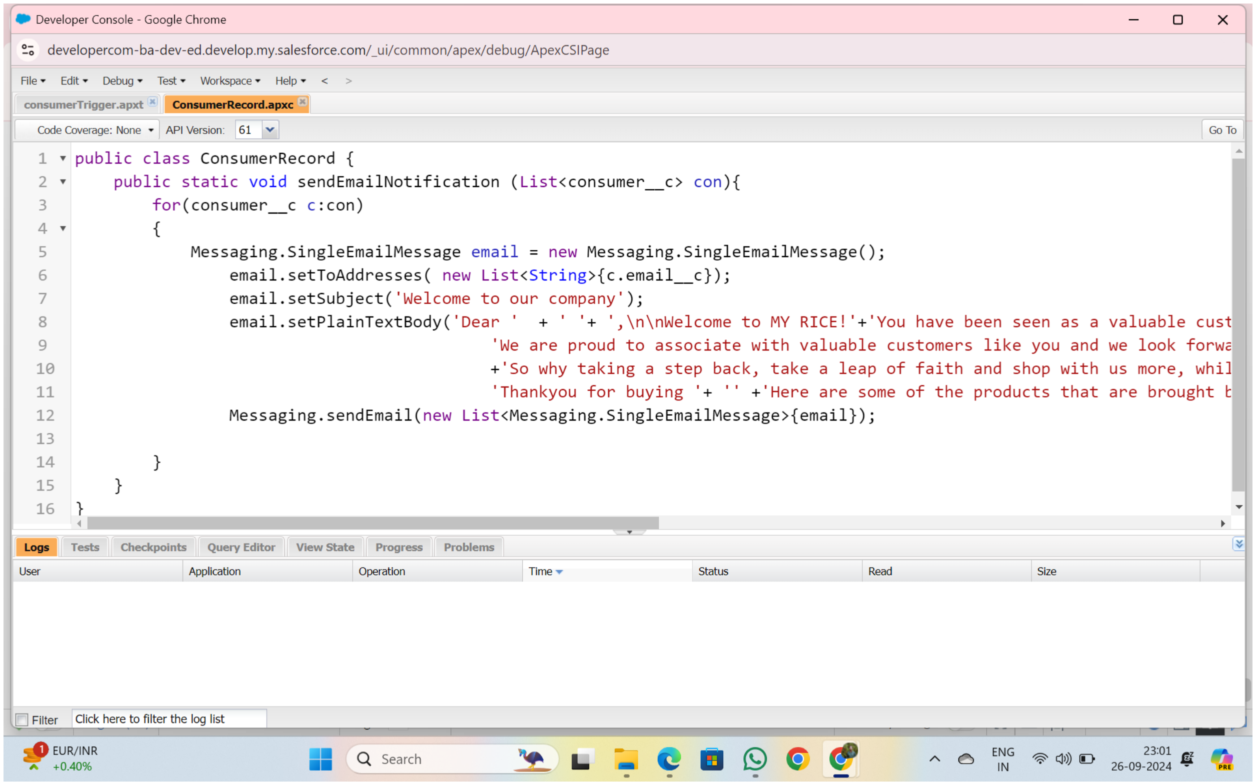
The syntax for creating trigger is :

```
Trigger [trigger name] on [object name]( Before/After event)    {
//Trigger Logic
}
```

Trigger code:

```
trigger consumerTrigger on consumer__c (After insert) {
  if(trigger.isAfter && trigger.isInsert) {
    ConsumerRecord.sendEmailNotification(trigger.new);
  }
}
```




Developer Console - Google Chrome
developercom-ba-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
File Edit Debug Test Workspace Help
consumerTrigger.apxt
ConsumerRecord.apxc
Code Coverage: None
API Version: 61
Go To
public class ConsumerRecord {
    public static void sendEmailNotification (List<consumer__c> con){
        for(consumer__c c:con)
        {
            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
                email.setToAddresses(new List<String>{c.email__c});
                email.setSubject('Welcome to our company');
                email.setPlainTextBody('Dear ' + ' '+ ',\n\nWelcome to MY RICE!'+'You have been seen as a valuable cust
                                       'We are proud to associate with valuable customers like you and we look forwa
                                       +'So why taking a step back, take a leap of faith and shop with us more, whil
                                       'Thankyou for buying '+ '' +'Here are some of the products that are brought b
                Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{email});

        }
    }
}
Logs
Tests
Checkpoints
Query Editor
View State
Progress
Problems
User
Application
Operation
Time
Status
Read
Size
Filter
Click here to filter the log list
EUR/INR
+0.40%
Search
ENG
IN
23:01
26-09-2024