

# **A CRM APPLICATION FOR WHOLESALE RICE MILL**

**By**

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# **Project Abstract**

This project implements a CRM solution tailored for managing rice mill operations, focusing on streamlining the tracking of daily production, sales, and revenue. It offers comprehensive reporting, rollup summary fields to monitor rice supply details, and cross-object formula fields for calculating payments. Validation rules are in place to ensure data integrity, and role-based access control is utilized to grant appropriate permissions to owners, employees, and workers. By leveraging Salesforce CRM, the system enhances operational efficiency and resource management, making it an essential tool for rice mill factories.

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# 1. Introduction to Salesforce

## 1. Creating a Developer Account

- Visit [Salesforce Developer Signup](#)
- Fill in the required details (name, email, role, etc.) and click "Sign Me Up."

## 2. Account Activation

- Check your email, click "Verify Account," set your password, and complete the security question setup.

# Thanks for signing up with Salesforce!



Click below to verify your account.

**Verify Account**

To easily log in later, save this URL:

<https://srmuniversity-6a-dev-ed.develop.my.salesforce.com>

Username:

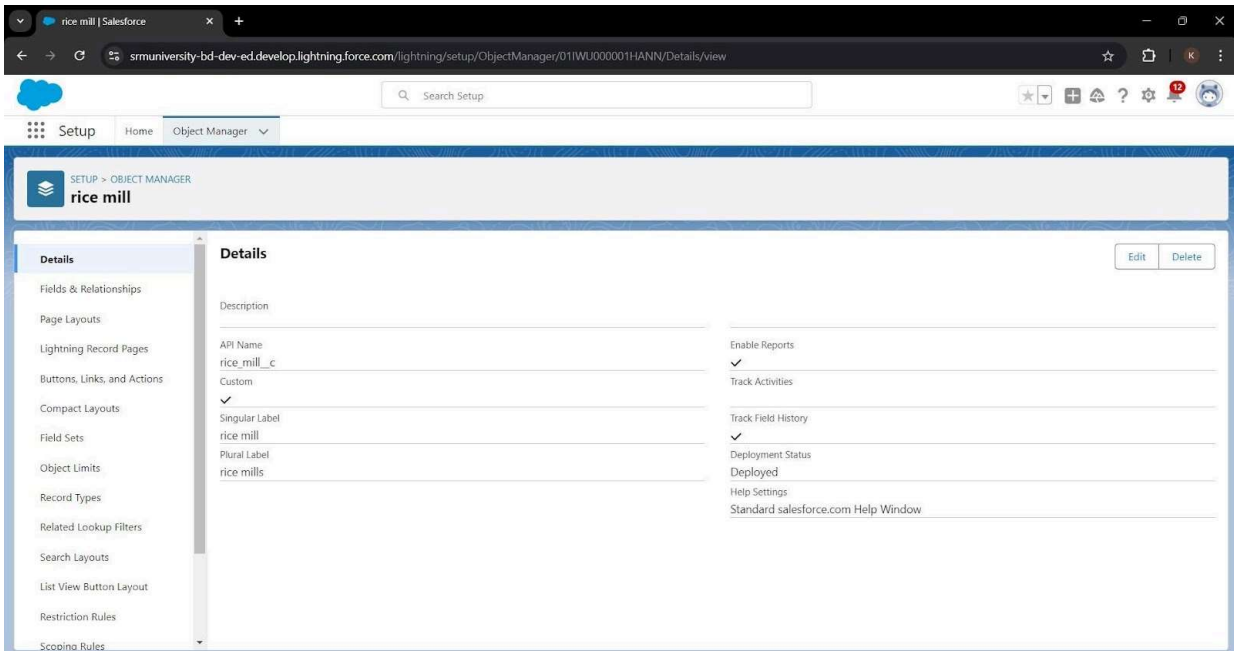
[123@srm.com](mailto:123@srm.com)

Again, welcome to Salesforce!

## 2. Create Objects

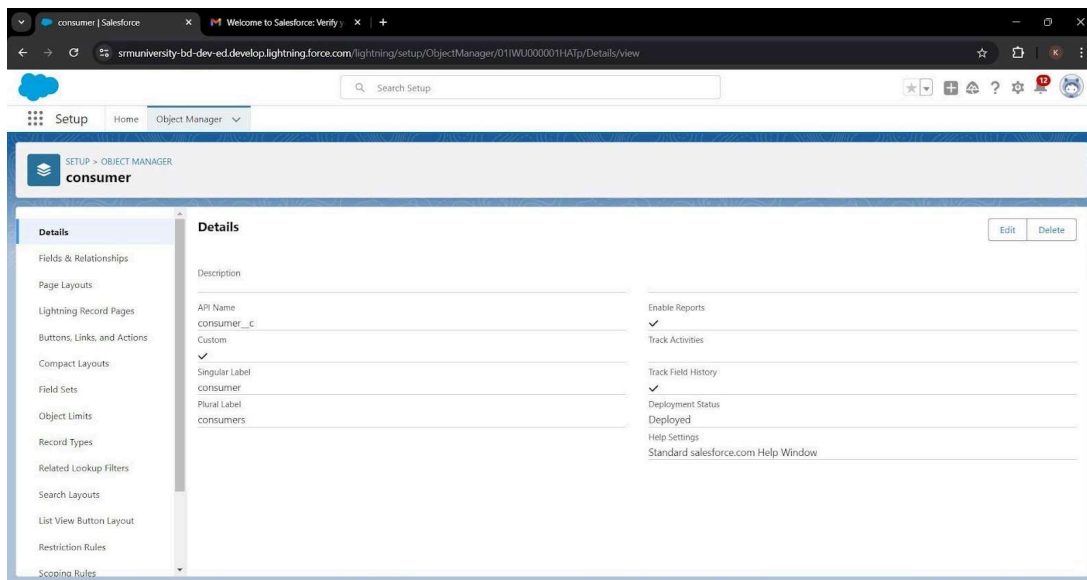
### 1. Rice Mill Object

- . Go to **Setup > Object Manager > Create > Custom Object**
- . Enter:
  - . **Label Name:** Rice Mill
  - . **Plural Label:** Rice Mills
  - . **Record Name:** Auto Number (Format: rice-{000})
  - . **Starting Number:** 1
- . Enable **Reports**, **Track Field History**, and **Allow Search**
- . Click **Save**.



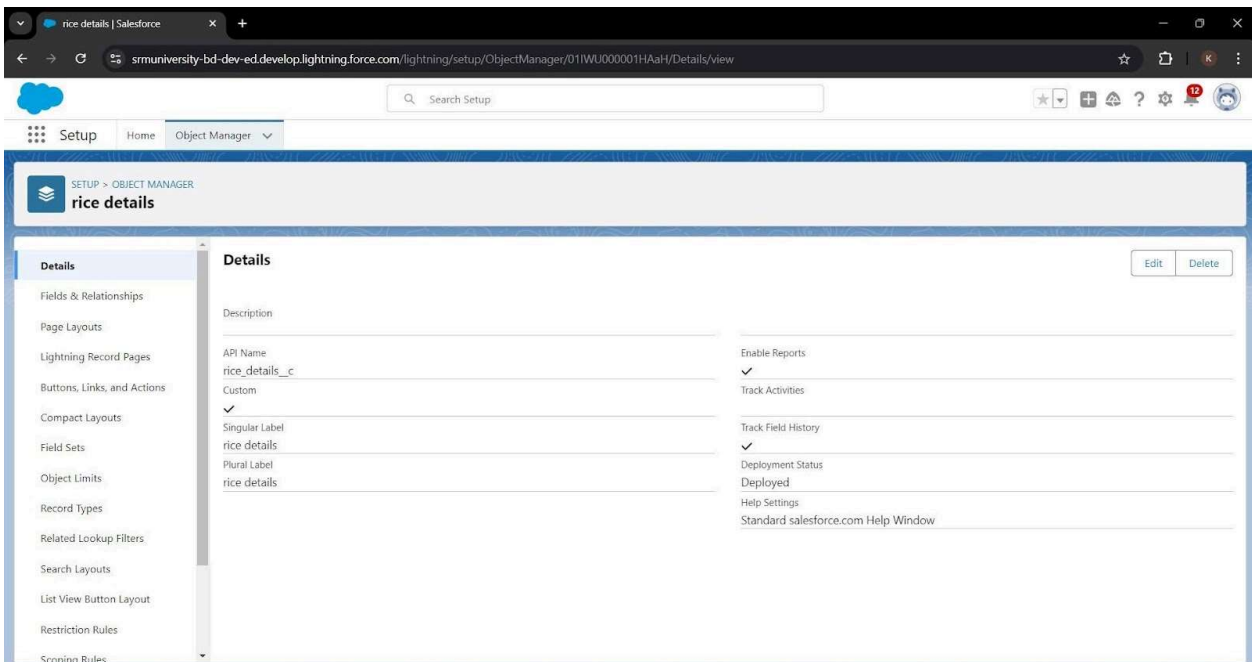
## 2. Consumer Object

- . Same steps as Rice Mill Object
- . Use:
  - . **Label Name:** Consumer
  - . **Plural Label:** Consumers
  - . **Display Format:** consumers-{000}
  - . **Starting Number:** 1



### 3. Rice Details Object

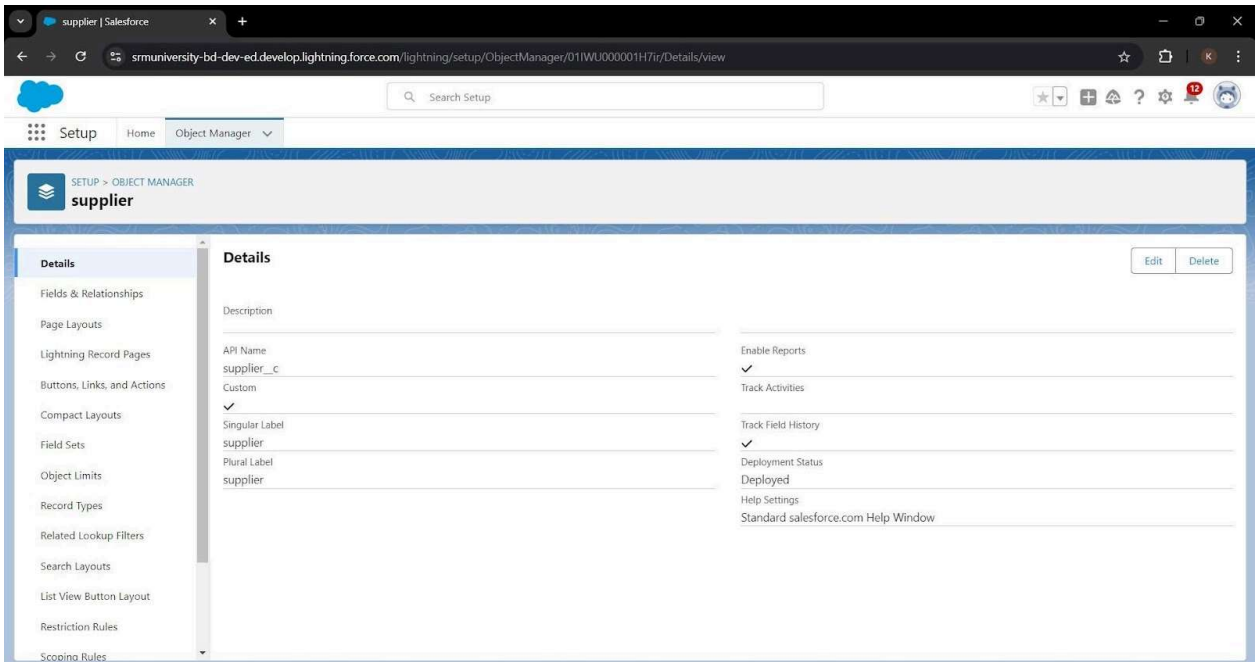
- Same steps as Rice Mill Object
- Use:
  - **Label Name:** Rice Details
  - **Plural Label:** Rice Details
  - **Display Format:** rice-{000}
  - **Starting Number:** 1



### 4. Supplier Object

- Same steps as Rice Mill Object
- Use:
  - **Label Name:** Supplier
  - **Plural Label:** Suppliers
  - **Record Name:** Supplier Name (Text)
- Enable **Reports**, **Track Field History**, and **Allow Search**
- Click **Save**.





### 3. Tabs

**Tab:** A UI element for creating and viewing object records.

**Types of Tabs:**

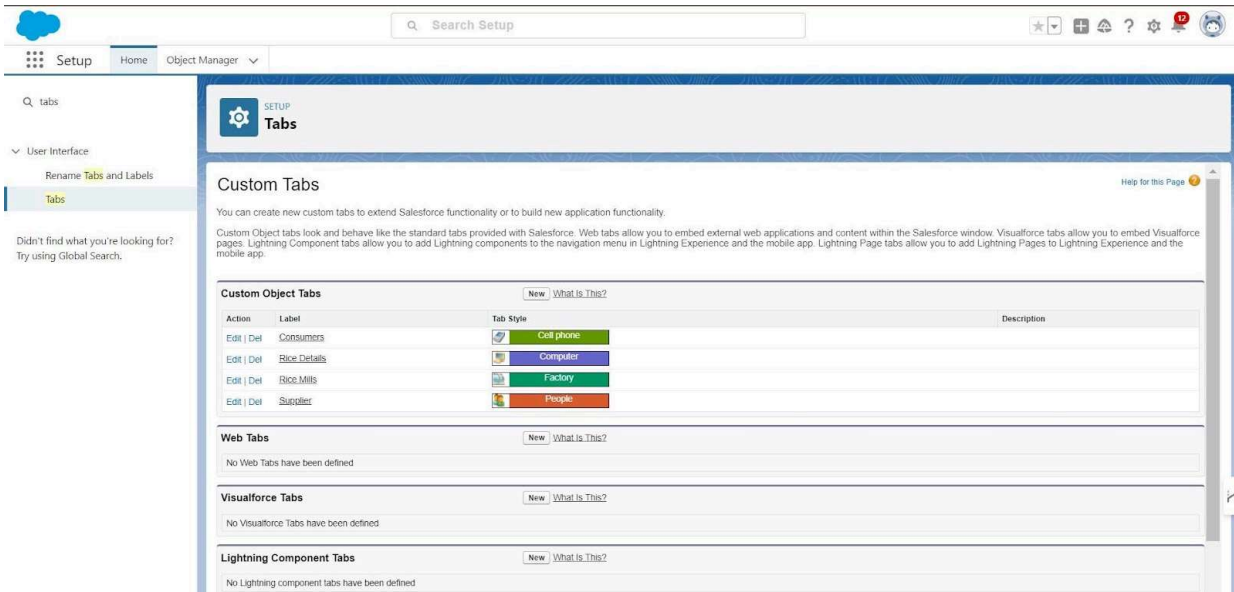
1. **Custom Tabs:** For custom objects, similar to standard tabs.
2. **Web Tabs:** Display external web content inside Salesforce.
3. **Visualforce Tabs:** Show custom Visualforce pages.
4. **Lightning Component Tabs:** Add Lightning components to the navigation.
5. **Lightning Page Tabs:** Add Lightning Pages to mobile app navigation.

#### 1. Creating a Custom Tab (Supplier)

1. Go to **Setup** > search "Tabs" > click **Tabs** > **New** under Custom Object Tab.
2. Select **Supplier** object > choose a style > click **Next**.
3. Keep default settings > click **Next**.
4. Uncheck **Include Tab in Custom App**, ensure **Append Tab** is checked.
5. Click **Save**.

#### 2. Creating Remaining Tabs

- Repeat the same steps for **Rice Mill**, **Consumer**, and **Rice Details**.



## 4. The Lightning App

A Lightning App bundles objects, tabs, and tools for easy access, with options for branding and a utility bar for quick navigation.

### 1. Create a Lightning App

1. **Access Setup:** Go to the Setup page and search for **App Manager** in the quick find box.
2. **Create New App:** Select **App Manager** and click on **New Lightning App**.

### 3. App Details:

- Enter the app name as **MY RICE** and click **Next**.
- Leave the App Options page as default and click **Next**.
- Keep the Utility Items as default and click **Next**.

4. **Upload Photo:** Upload a photo related to your app.

### 5. Add Navigation Items:

- Select items (Supplier, Rice Mill, Consumer, Rice Details) from the search bar and move them using the arrow button. Click **Next**.

### 6. Add User Profiles:

- Search for **System Administrator** in the search bar and click the arrow button to add it. Click **Save & Finish**.

## 5.Fields

In Salesforce, fields store data in the columns of a relational database, making it easier to search, delete, and edit records.

### Types of Fields

#### 1. Standard Fields:

- Predefined fields performing standard tasks.
- Cannot be deleted if required; otherwise, they can be removed.
- Common examples: Created By, Owner, Last Modified.

#### 2. Custom Fields:

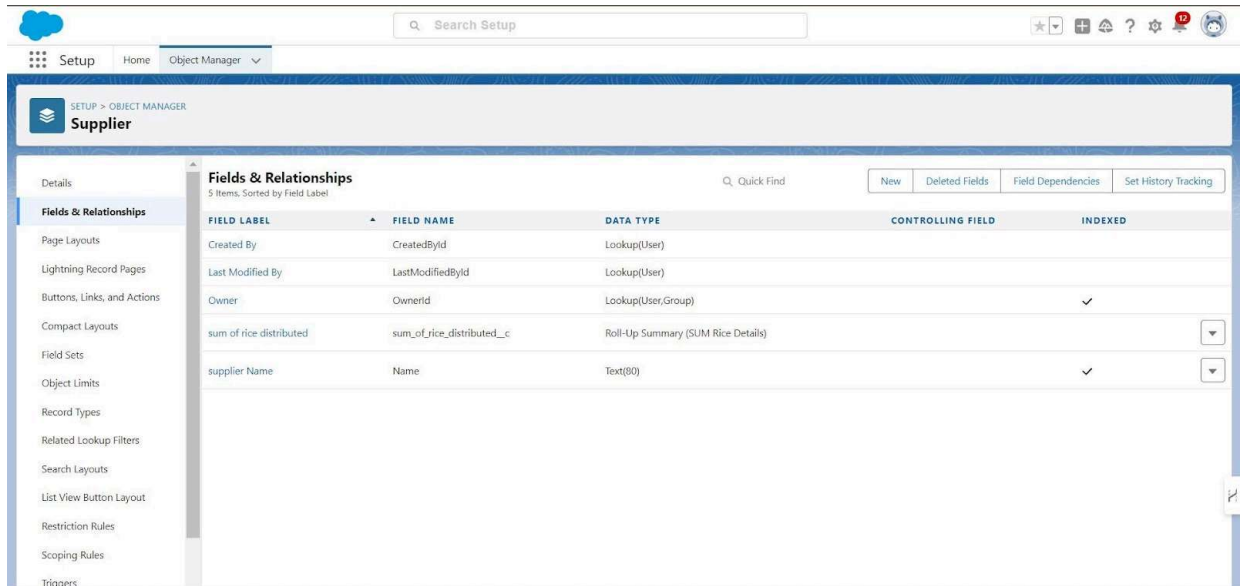
- Flexible fields that users can modify as needed.
- Users can choose to add or remove them from records.

### 1. Creating the Number Field in Rice Details Object

1. Go to **Setup > Object Manager > Edit** for the **Rice Details** object.
2. Click **Fields & Relationships > New**.
3. Select **Number** as the data type and click **Next**.
4. Enter **Field Label** as **Rice Distributed** (length: 5) and click **Next > Next > Save**.

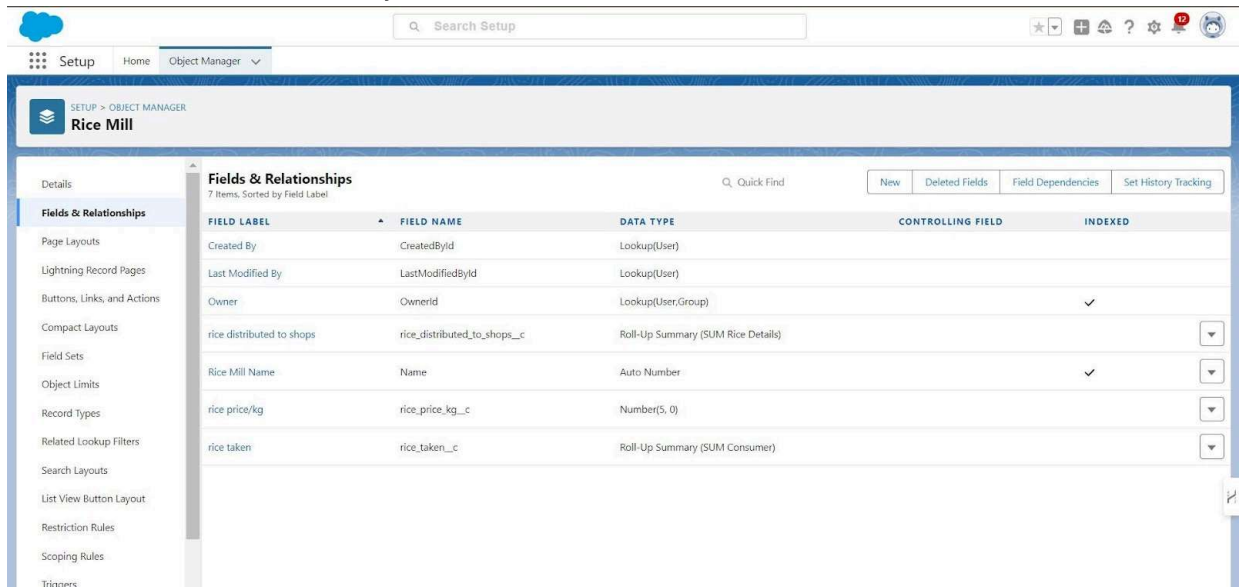
### 2. Creating Junction Object

1. Go to **Setup > Object Manager > edit Rice Details** object.
2. Click **Fields & Relationships > New > select Master-Detail** relationship.
3. Select related object as **Supplier > Field Label: "Supplier Name" > Next > Save**.
4. Repeat for **Rice Mill** object with label "Rice Mill 1".



### 3. Creating a Master-Detail Relationship

1. Go to **Setup > Object Manager > edit Consumer** object.
2. Click **Fields & Relationships > New** > select **Master-Detail** relationship.
3. Select **Rice Mill** as related object > Field Label: "Rice Mill Name" > **Next > Save**.

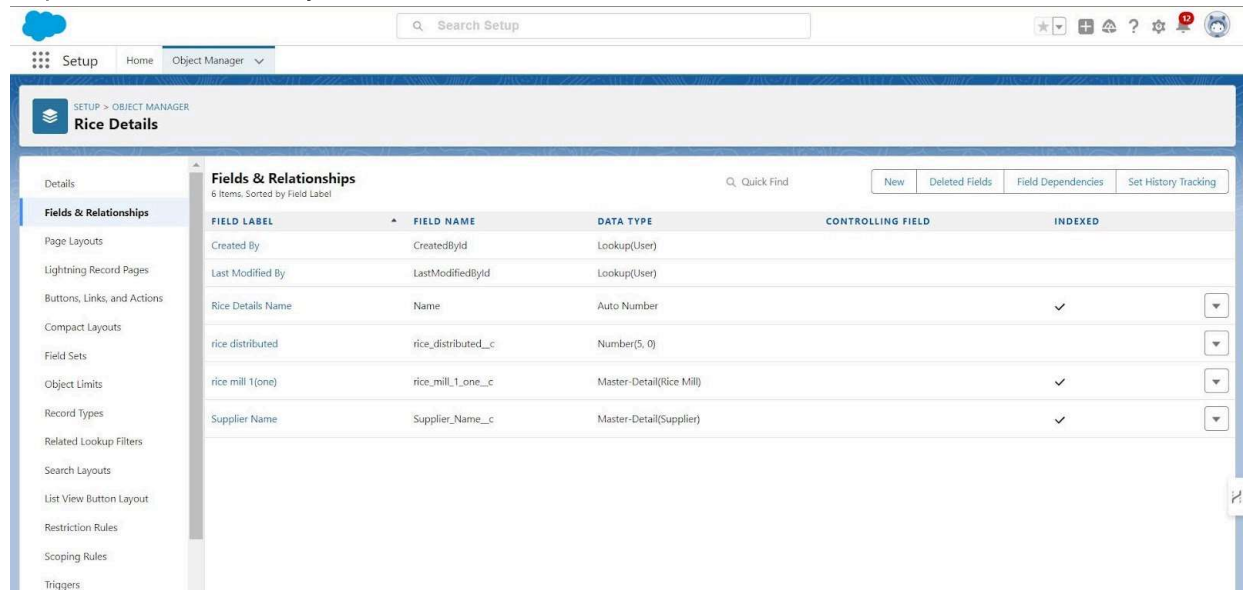


### 4. Creating Roll-Up Summary Field

1. Go to **Setup > Object Manager > select Supplier > Fields & Relationships > New**.
2. Select **Roll-Up Summary** > Field Label: "Sum of Rice Distributed".
3. Select summarized object as **Rice Details** > Roll-up type: **Sum** > field to aggregate:

## Rice Distributed.

- Repeat for **Rice Mill** object.



## 5. Creating Fields in Rice Details Object

- Go to **Setup > Object Manager > Edit** for the **Rice Details** object.
- Click **Fields & Relationships > New**.
- Select **Data Type** as **Master-Detail** and click **Next**.
- Enter **Field Label** as **Supplier Name** (Length: 5).
- Field Name will auto-populate; click **Next > Next > Save**.

## 6. Creating Fields in Rice Mill Object

- Go to **Setup > Object Manager > Edit** for the **Rice Mill** object.
- Click **Fields & Relationships > New**.
- Select **Number** as the data type and click **Next**.
- Enter **Field Label** as **Rice Price/kg** (length: 5) and click **Next > Next > Save**.

## 7. Creating Fields in Consumer Objects

- First Name: **Text**
- Last Name: **Text**
- Phone Number: **Phone**
- Email: **Email**
- Rice Taken by Shops: **Number (5)**

- Rice Type: **Picklist (Basmati, Normal Rice)**
- Mode of Payment: **Picklist (Credit Card, Debit Card, Net Banking, UPI, Cash)**

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Amount Paid	Amount_Paid__c	Formula (Number)		
Consumer Name	Consumer_Name__c	Formula (Text)		
Consumer Name	Name	Auto Number		✓
Created By	CreatedById	Lookup(User)		
email	email__c	Email		
First Name	First_Name__c	Text(50)		
Last Modified By	LastModifiedById	Lookup(User)		
Last Name	Last_Name__c	Text(50)		
Mode of payment	Mode_of_payment__c	Picklist		
Phone Number	Phone_Number__c	Phone		
rice mill name	rice_mill_name__c	Master-Detail(Rice Mill)		✓
Rice taken by shops	Rice_taken_by_shops__c	Number(5, 0)		
rice taken by shops in kgs	rice_taken_by_shops_in_kgs__c	Number(6, 0)		

## 8. Creating Cross-Object Formula Field in Consumer Object

1. Go to **Setup > Object Manager > edit Consumer** object.
2. Click **Fields & Relationships > New > select Formula > Formula return type: Number**.
3. Field Label: "Amount Paid" > Formula: `rice_taken_by_shops_c * rice_mill_name_r.rice_price_kg.c.`
4. Click **Check Syntax > Save**.

## 9. Creating Validation Rule (Phone Number & Email)

1. Go to **Setup > Object Manager > edit Consumer** object.
2. Click **Validation Rules > New**.
3. Rule Name: "Phonenumberoremailblankrule" > Formula: `OR(ISBLANK(phone_number_c), ISBLANK(email_c)).`
4. Error Message: "Please fill in your phone number" > Error location: "Top of page" > **Save**.

## 6. Page Layouts

Page Layouts in Salesforce provide the ability to customize the structure and arrangement of record detail and edit pages. They manage the visibility of fields, related lists, and custom links for both standard and custom objects, improving the overall user experience and interface.

### 1. Creating a Page Layout

To create a Page Layout:

1. Go to **Setup > Object Manager**.
2. Search for and select the **Consumer** object.
3. Click on **Page Layouts > New**.
4. Choose an existing layout, name it **"Consumer Layout,"** and click **Save**.
5. Drag and drop fields into the section named **Personal Details:** First Name, Last Name, Consumer Name, Phone Number, Email, Rice Mill Name.
6. Create another section called **Rice Details** and add: Rice Taken by Shop, Rice Type.
7. Create a final section called **Receipt Details** and add: Mode of Payment, Amount Paid.
8. Click **Save**.

The screenshot shows the Salesforce Setup interface for the 'Consumer' object. The left sidebar contains navigation links: Details, Fields & Relationships, Page Layouts (selected), 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, and Triggers.

The main area displays the 'Consumer Layout' editor. At the top, there are tabs for 'Save', 'Quick Save', 'Preview As...', 'Cancel', 'Undo', 'Redo', and 'Layout Properties'. Below these is a 'Fields' list on the left and a 'Field Name' search bar. The layout itself is divided into three sections:

- Personal details:** Contains fields for First Name (Sample Text), Last Name (Sample Text), Consumer Name (GEN-2004-001234), Phone Number (1-415-555-1212), email (sarah.sample@company.com), and rice mill name (Sample Text).
- Rice details:** Contains fields for Rice taken by shops (57,868) and Rice Type (Sample Text).
- Receipt details:** Contains fields for Mode of payment (Sample Text) and Amount Paid (754.64).

At the bottom, there are sections for 'Information' (Header visible on edit only), 'System Information' (Header visible on edit only), and 'Custom Links' (Header visible on edit only).

## 7.Profiles

A profile in Salesforce is a set of settings and permissions that dictate what users can do within the system. It manages elements like object and field access, app configurations, and login restrictions. Profiles are typically associated with specific job roles, such as System Administrator or Sales Representative.

### Types of profiles

#### Standard Profile :

- Default profiles provided by Salesforce (e.g., Contract Manager, Read Only, Marketing User, Standard User, System Administrator).
- Cannot be deleted and come with default permissions for standard objects.

#### Custom Profiles:

- Defined by users and can be deleted if not assigned to any users.

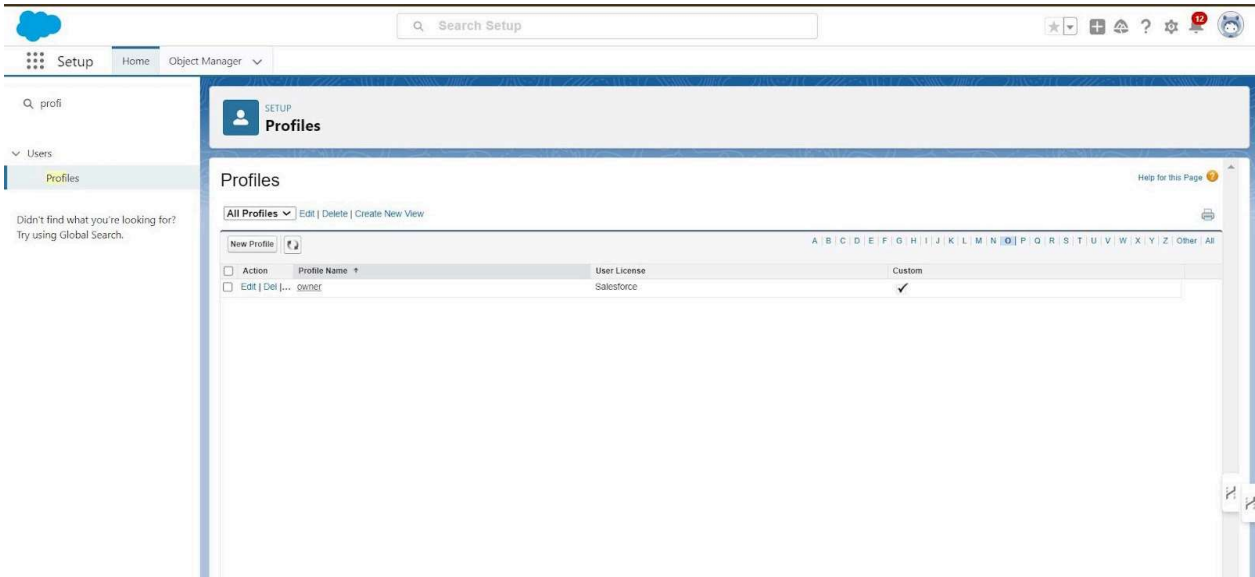
### 1. Owner Profile

To create a new Owner Profile:

1. Go to **Setup** and type **Profiles** in the Quick Find box.
2. Click on **Profiles** and clone the desired profile (e.g., **Standard User**).
3. Enter the profile name as **Owner** and click **Save**.



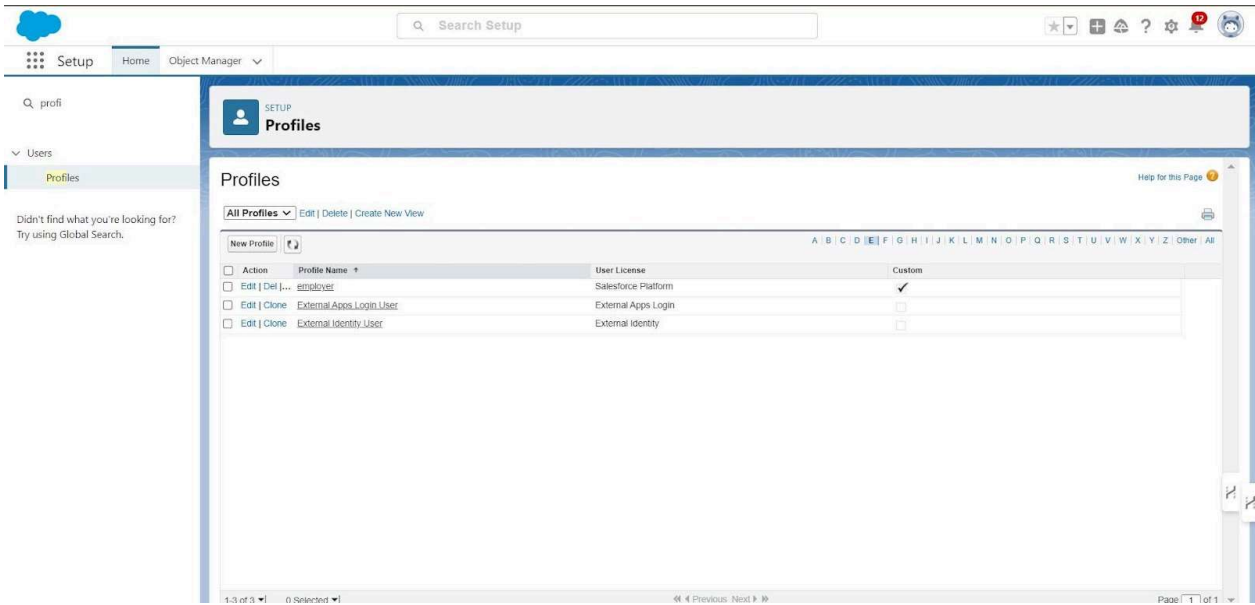
4. Scroll down to **Custom Object Permissions** and grant access permissions for the following objects:
  - Consumers
  - Rice Details
  - Rice Mill
  - Suppliers
5. Click **Save** to finalize the permissions.



## 2. Employer Profile

To create a new Employer Profile:

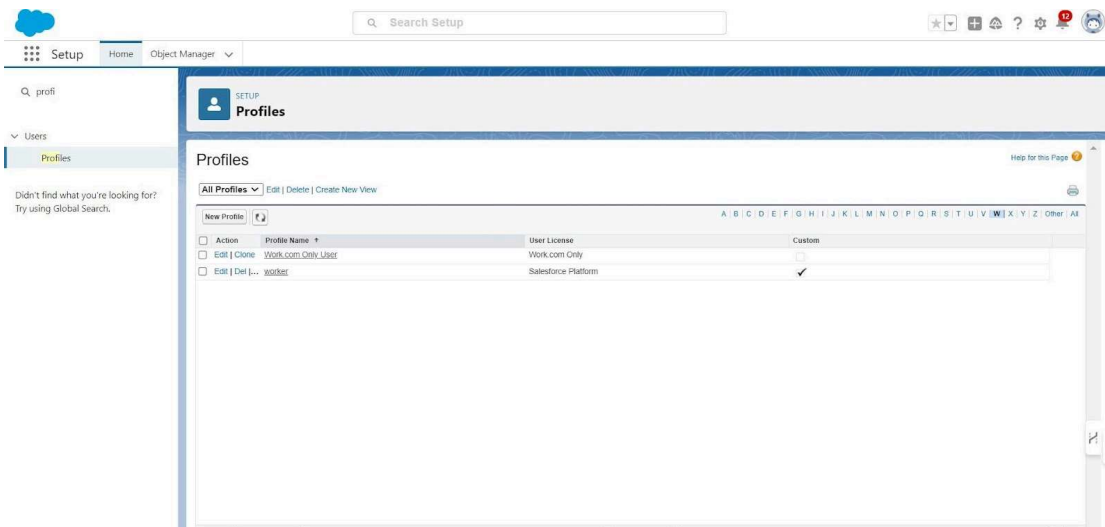
1. Go to **Setup** and search for **Profiles**.
2. Clone the **Standard Platform User** profile and name it **Employer**. Click **Save**.
3. Click **Edit** and set the **Custom App Settings** to default for the Rice Mill.
4. In **Custom Object Permissions**, grant access for:
  - Consumers
  - Rice Details
  - Rice Mill
  - Suppliers
5. Click **Save**.



### 3. Worker Profile

To create a new Worker Profile:

1. Go to **Setup** and search for **Profiles**.
2. Clone the **Standard Platform User** profile and name it **Worker**. Click **Save**.
3. Click **Edit** on the profile page.
4. Set the **Custom App Settings** to default for the Rice Mill.
5. In **Custom Object Permissions**, grant access for:
  - Consumers
  - Rice Details
  - Rice Mill
  - Suppliers
6. Click **Save** to finalize the changes.



## 8.Role & Role Hierarchy

In Salesforce, a role determines a user's level of access and visibility to records. Roles define the extent of access users have to data, helping manage what they can view and interact with based on their position in the role hierarchy. This ensures proper data sharing and visibility across the organization.

### 1. Creating Owner Role

To create an Owner Role:

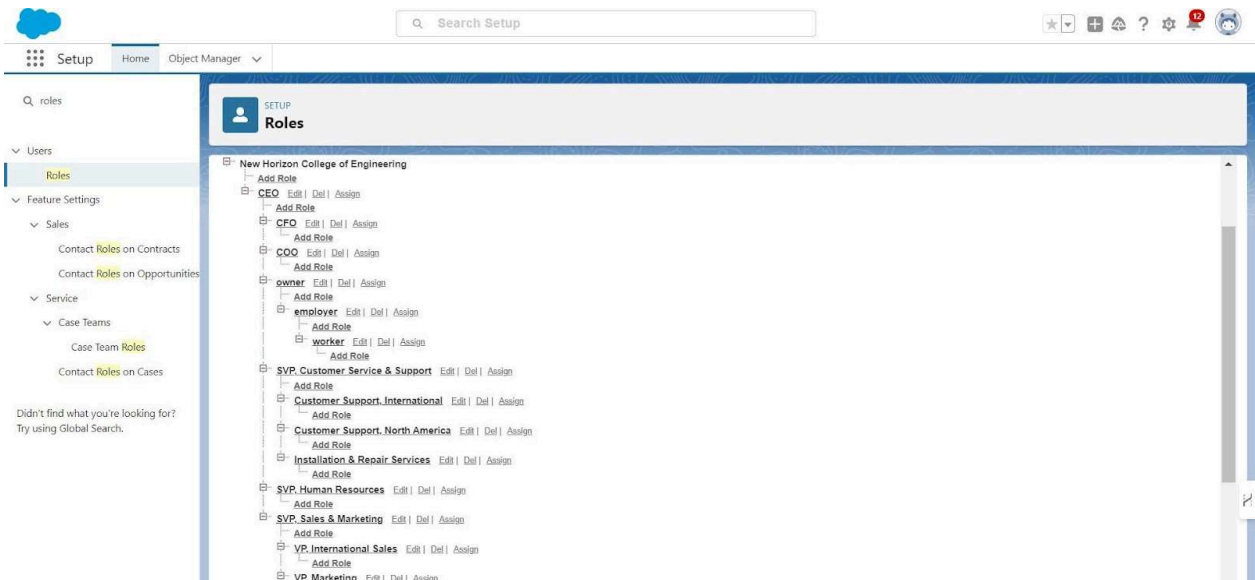
1. Go to **Quick Find** and search for **Roles**.
2. Click on **Setup Roles**.
3. Click **Expand All** and then click **Add Role** under the relevant parent role.
4. Enter **Owner** as the label (Role name auto-populates).
5. Click **Save**.

### 2. Creating Employer Roles

To create Employer and Worker roles under Manager:

1. Go to **Quick Find** and search for **Roles**.
2. Click on **Setup Roles**.
3. Click the **plus (+)** next to the **CEO** role and select **Add Role** under **Owner**.
4. Enter **Employer** as the label (Role name auto-populates) and click **Save**.
5. Repeat the process: click the **plus (+)** next to **CEO**, then under **Owner**, click the **plus (+)** next to **Employer** and select **Add Role**.

6. Enter **Worker** as the label (Role name auto-populates) and click **Save**.



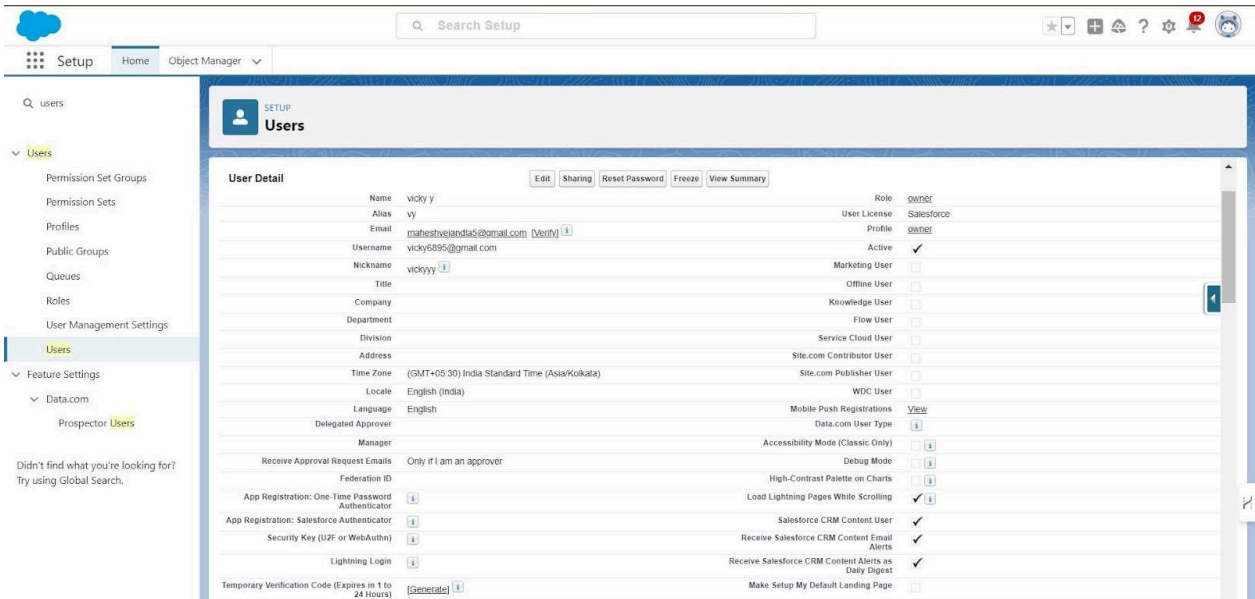
## 9.Users

In Salesforce, a user is an individual who logs into the platform, such as employees like sales representatives, managers, or IT professionals. Each user has a unique account that determines their access to specific features and records within the system.

### 1. Create User

To create a new user:

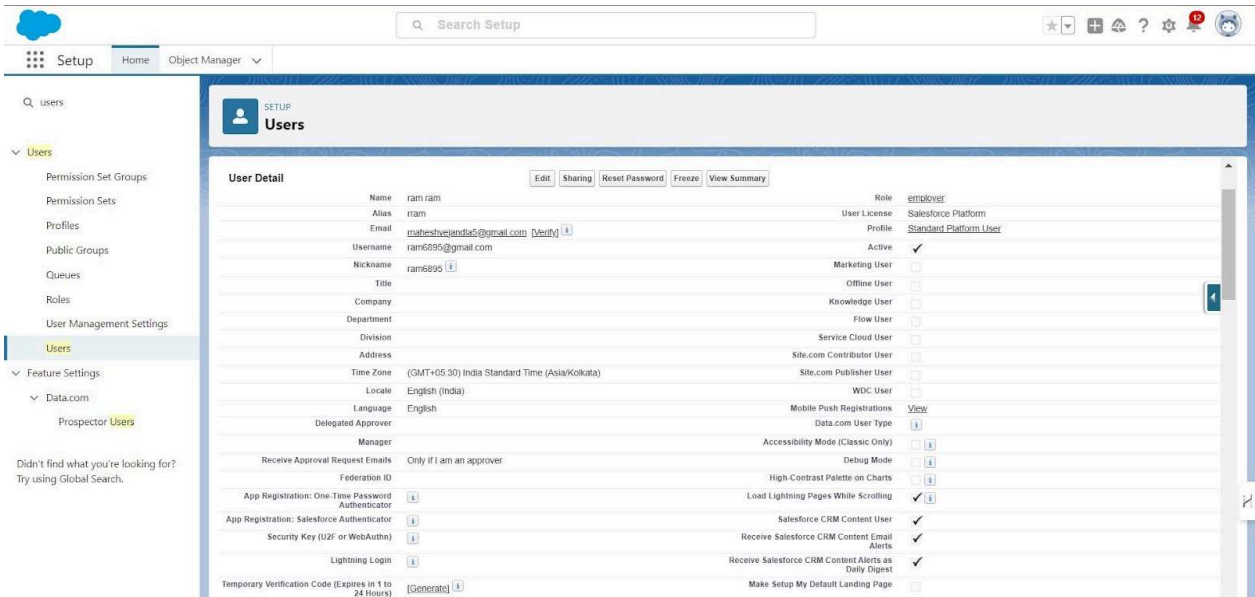
1. Go to **Setup** and type **Users** in the Quick Find box.
2. Select **Users** and click **New User**.
3. Fill in the fields:
  - **First Name:** Vicky
  - **Last Name:** Y
  - **Alias:** (Enter an alias)
  - **Email:** (Enter your personal email)
  - **Username:** (Use the format text@text.text)
  - **Nickname:** (Enter a nickname)
  - **Role:** Owner
  - **User License:** Salesforce
  - **Profile:** Owner
4. Click **Save**.



## 2. Creating Another User

To create another user:

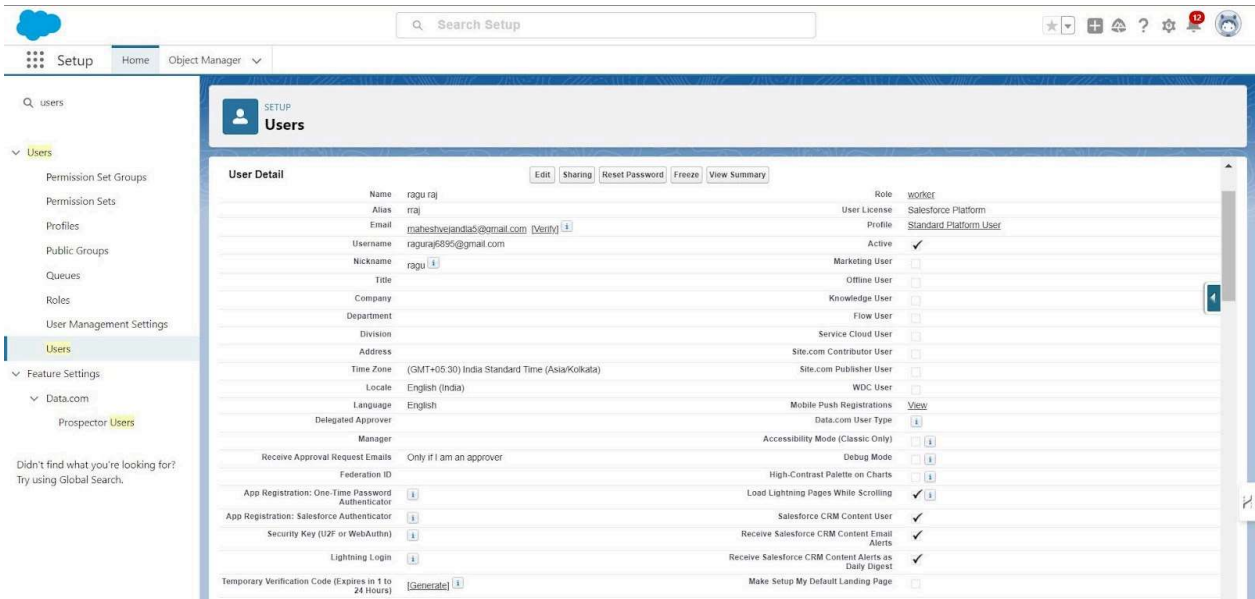
1. Go to **Setup** and type **Users** in the Quick Find box.
2. Select **Users** and click **New User**.
3. Fill in the fields:
  - **First Name:** Ram
  - **Last Name:** Ram
  - **Alias:** (Enter an alias)
  - **Email:** (Enter your personal email)
  - **Username:** (Use the format text@text.text)
  - **Nickname:** (Enter a nickname)
  - **Role:** Employer
  - **User License:** Salesforce Platform
  - **Profile:** Standard Platform User
4. Click **Save**.



### 3. Creating Another User

To create another user:

1. Go to **Setup > Users**.
2. Click **New User**.
3. Fill in the fields:
  - **First Name:** Ragu
  - **Last Name:** Raj
  - **Alias:** (Enter an alias)
  - **Email:** (Enter your personal email)
  - **Username:** (Format: text@text.text)
  - **Nickname:** (Enter a nickname)
  - **Role:** Worker
  - **User License:** Salesforce Platform
  - **Profile:** Standard Platform User
4. Click **Save**.



## 10. Permission Sets

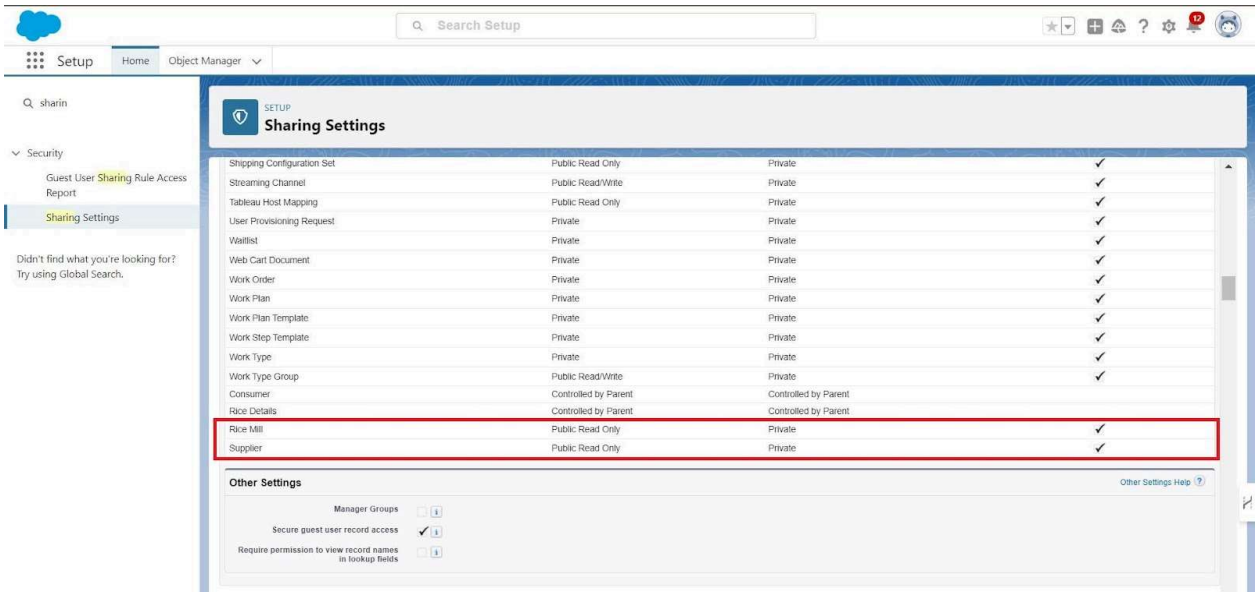
A permission set is a grouping of settings and permissions that provides users with additional access to tools and features. It allows administrators to grant extra privileges without changing the user's profile, making it an efficient way to manage permissions.

### 1. Creating OWD Settings

To create OWD settings:

1. Go to **Setup** and type **Sharing Settings** in the Quick Find box.
2. Click **Edit**.
3. Scroll down and change the default internal access to **Public Read-Only** for the Rice Mill and Supplier objects.
4. Click **Save**.

**Note:** Each profile has its own access. In this case, roles are structured so that the owner can see employer and worker records, while the employer can see worker records.

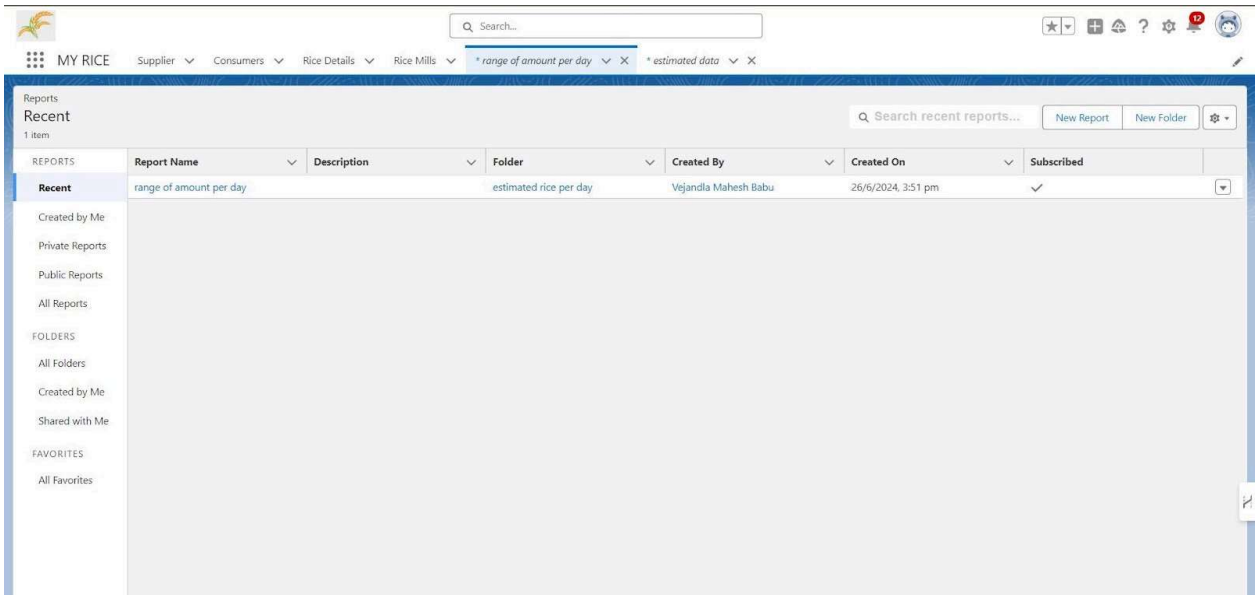


# 11.Report

## 1.Create Report

1. **Prepare Data:** Create the latest **10** records in the Consumer object, filling in every field.
2. Go to the app and click on the **Reports** tab.
3. Click **New Report**.
4. Search for the report type **Rice Mill with Consumers**, click on it, and then click **Start Report**.
5. In the Outline pane, select the following fields for the columns:
  - Consumer Name
  - Rice Type
  - Rice Price/kg
  - Mode of Payments
  - Amount Paid
6. Remove unnecessary fields.
7. In the **GROUP ROWS** section, select:
  - Rice Taken by Shops
8. Click **Save and Run**, naming the report **Range of Amount per Day** and saving it.





## 2. Sharing Report to Owner

1. Click the **Edit** dropdown and select the **Subscribe** option.
2. Follow the prompts as per the provided image.
3. In the **Run Report** section, select **Another Person** and choose your personal account or the intended recipient.
4. Click **Save**.

**Note:** The owner will receive daily email notifications of the Rice Mill report, allowing them to view all data remotely.

## 3. Create a Report Folder

1. Click on the **App Launcher** and search for **Reports**.
2. Double-click on the report; the **Reports** tab will auto-populate in the navigation bar.
3. Click on the **Reports** tab and select **New Folder**.
4. Enter the folder label as **Estimated Rice per Day** (the unique name will auto-populate).
5. Click **Save**.

### Move Report to the New Folder

1. Navigate to the **App Launcher** and click on **Reports**.
2. Click **All Reports**.
3. Select the **Range of Amount per Day** report and click **Move**.
4. Choose the **Estimated Rice per Day** folder and confirm the selection.

**Note:** To view the report, go to **Reports > All Folders > Estimated Rice per Day**; your report will

be listed there.

Rice taken by shops	Consumer Name	Rice Type	rice price/kg	Mode of payment	Amount Paid
150 (2)	saleempatna	basmati	10	Cash	1,500.00
	maheshiv	basmati	10	Net banking	1,500.00
<b>Subtotal</b>			10		3,000.00
250 (1)	kumariya	normal rice	12	Credit card	3,000.00
<b>Subtotal</b>			12		3,000.00
300 (1)	mahib	normal rice	11	UPI	3,300.00
<b>Subtotal</b>			11		3,300.00
350 (1)	rowanj	normal rice	12	UPI	4,200.00
<b>Subtotal</b>			12		4,200.00
400 (1)	arunjain	basmati	11	Net banking	4,400.00
<b>Subtotal</b>			11		4,400.00
600 (2)	nanik	basmati	10	Net banking	6,000.00
	anilkumar	normal rice	12	Net banking	7,200.00
<b>Subtotal</b>			22		13,200.00
<b>Total (8)</b>			33		31,100.00

## 12. Dashboards

Dashboards offer a visual summary of evolving business conditions, allowing users to make informed decisions using real-time data derived from reports. They assist in recognizing trends, quantifying metrics, and assessing the effects of various activities. It's important to grasp the fundamental concepts of dashboards before creating, viewing, or sharing them.

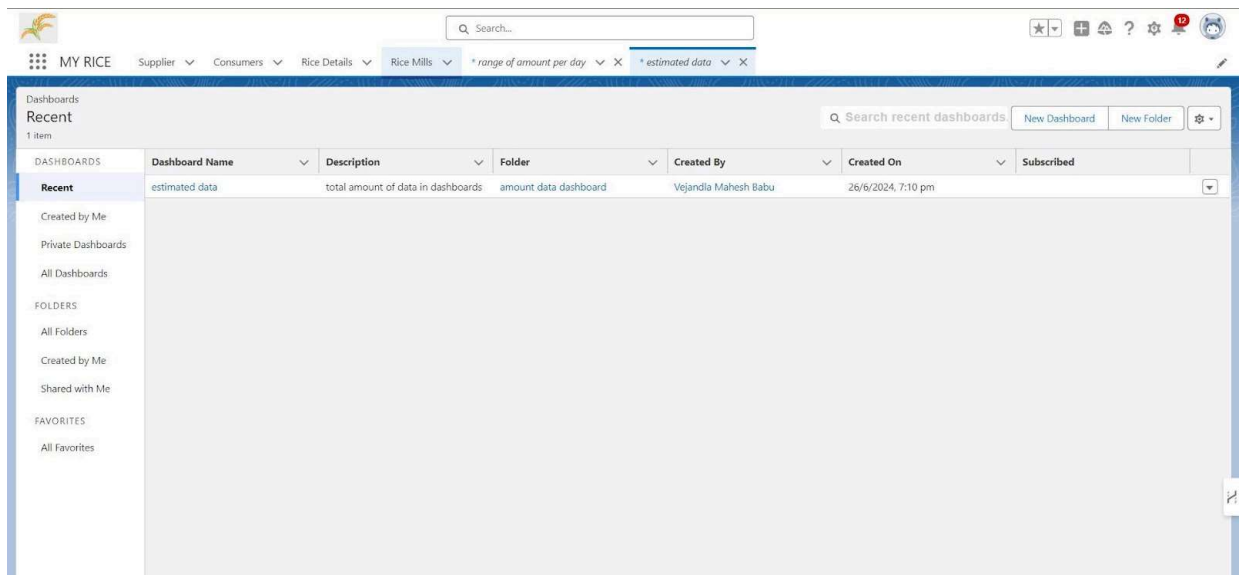
### 1. Create Dashboard Folder

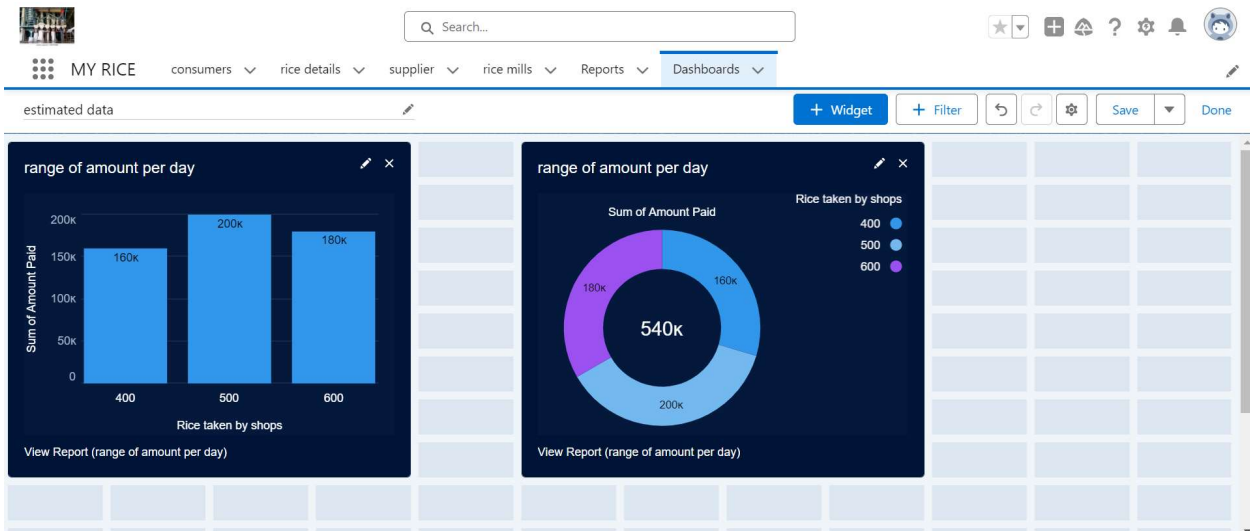
1. Click on the **App Launcher** and search for **Dashboards**.
2. Click on the **Dashboards** tab.
3. Select **New Folder** and enter the folder label as **Amount Data Dashboard** (the unique name will auto-populate).
4. Click **Save**.

### 2. Create Dashboard

1. Go to the app and click on the **Dashboards** tab.
2. Enter a **Name** for the dashboard and select the folder you created, then click **Create**.
3. Click **Add Component**.
4. Select a report and click **Select**.
5. Configure the first component:

- . **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
6. Click **Add**.
7. Repeat the above steps for the second component:
- . **Display as:** Donut Chart
  - . **Sort by:** Sum of Amount
  - . **Title:** Range of Amount per Day
  - . **Component Theme:** Dark
8. Click **Add**.
9. Click **Save** and then **Done**.





## 13. APEX

Apex is a strongly typed, object-oriented programming language akin to Java, designed for developers to implement flow and transaction control statements on the Lightning platform server. It allows for the integration of business logic into system events, such as record updates and button clicks. Apex can be triggered by web service requests and various triggers within the system.

### Key Concepts

- **Classes:** In Apex, classes serve as templates from which objects are created. You can define, instantiate, and extend classes, as well as work with interfaces and properties.
- **Objects:** An object is an instance of a class that can access all the properties (variables and methods) defined in that class.

## 1. Creating an Apex Class (ConsumerRecord)

1. **Log In:** Log in to your Salesforce account and click the gear icon in the top right corner.
2. **Access Developer Console:** Select **Developer Console** from the dropdown.

### 3. Create New Class:

- Click on **File > New > Apex Class**.
- Enter the class name **ConsumerRecord**.

### 4. Code Snippet:

Write the code to define the `ConsumerRecord` class and include a method for sending

email notifications to consumers.

5. **Save the Class.**

## 2. Creating an Apex Trigger

1. **Log In:** While still in your Salesforce account, click on the gear icon in the top right corner.
2. **Access Developer Console:** Click on **Developer Console** to open a new console window.

### 3. Create New Trigger:

- . Click on the **File** menu in the toolbar and select **New > Trigger**.
- . Enter the trigger name and specify the object to be triggered.

### 4. Trigger Syntax:

The syntax for creating a trigger is as follows:

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

### 5. Trigger Code:

Write the trigger to execute after a consumer record is inserted and call the method to send email notifications.

6. **Save the Trigger.**