

Team Details

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SALESFORCE

CRM Application for Jewel Management - (Developer)

The Jewel Inventory System is a comprehensive software Solution designed to streamline and manage the inventory and sales processes of a jewellery store or a jewellery manufacturer. The system aims to provide an efficient and user-friendly solution to track and control the inventory of various jewellery items, maintain accurate records, and facilitate seamless sales transactions.

What you'll learn

1. Real Time Salesforce Project
2. Data Modelling
3. Creating an Application
4. User Interface Customization
5. Object & Relationship in Salesforce
6. Formula fields and Validation rules.
7. Field Dependencies
8. Record Types
9. Cross object formula fields.
10. Conditional formatting.
11. Flows
12. Email alerts and email templates
13. Reports & Dashboards

Salesforce

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.

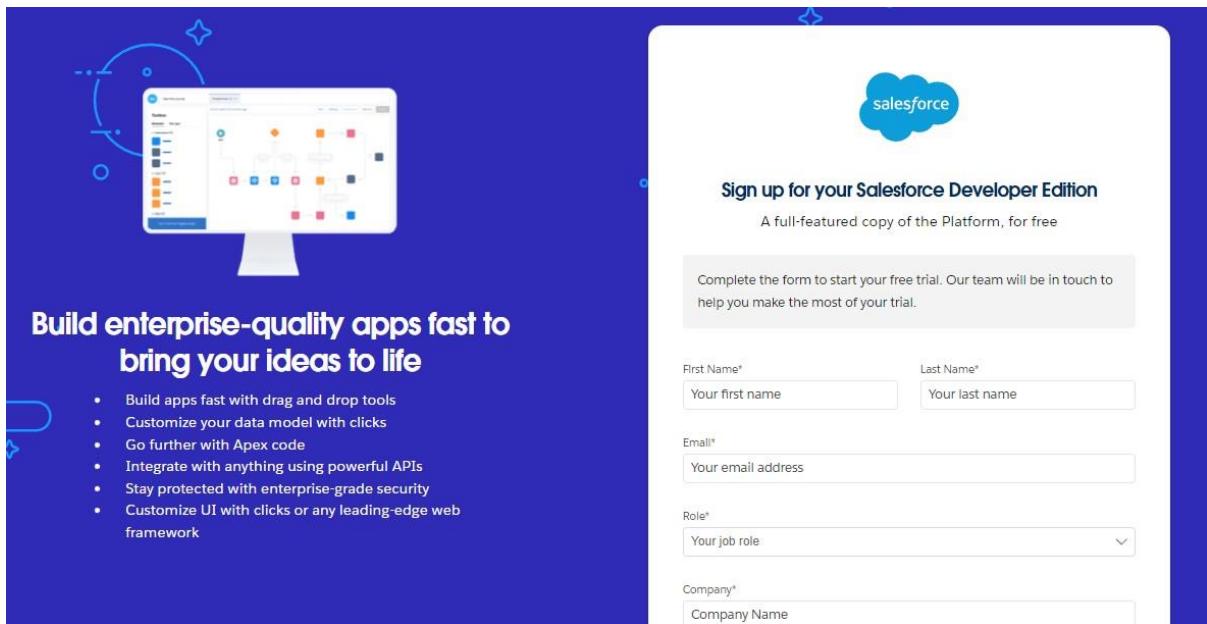
So what does that really mean? Well, before Salesforce, your contacts, emails, follow-up tasks, and prospective deals might have been organised something like this:

<https://youtu.be/r9EX3lGde5k>

Creating Developer Account

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the following details :



Build enterprise-quality apps fast to bring your ideas to life

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web framework

Sign up for your Salesforce Developer Edition

A full-featured copy of the Platform, for free

Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name*	Last Name*
<input type="text" value="Your first name"/>	<input type="text" value="Your last name"/>
Email*	
<input type="text" value="Your email address"/>	
Role*	
<input type="text" value="Your job role"/>	
Company*	
<input type="text" value="Company Name"/>	

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 me up after filling these.

Account Activation

1. Go to the inbox of the email that you used while signing up. Click on the Reset Password to activate your account. The email may take 5-10mins.
0. Click on Reset Password
0. Give a password and answer a security question and click on change password.

The screenshot shows the 'Change Your Password' page in the Salesforce setup interface. At the top, it says 'Enter a new password for lead@sb.oom.' and 'Make sure to include at least:

- 8 characters
- 1 letter
- 1 number

The form fields are as follows:

- * New Password:** A red box highlights this field, which contains '.....' and is labeled 'Good'.
- * Confirm New Password:** A red box highlights this field, which contains '.....' and is labeled 'Match'.
- Security Question:** A dropdown menu is open, showing 'In what city were you born?'.
- * Answer:** A red box highlights this field, which contains 'asdfghjkl'.

 A large blue 'Change Password' button is at the bottom.

0. Then you will redirect to your salesforce setup page.

The screenshot shows the Salesforce Setup Home page. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The main content area is titled 'SETUP Home' and features three cards:

- Get Started with Einstein Bots**: Launch an AI-powered bot to automate your digital connections. Includes a 'Get Started' button.
- Mobile Publisher**: Use the Mobile Publisher to create your own branded mobile app. Includes a 'Learn More' button.
- Real-time Collaborative Docs**: Transform productivity with collaborative docs, spreadsheets, and slides inside Salesforce. Includes a 'Get Started' button.

 The left sidebar contains a 'Quick Find' search bar and a list of links under 'Setup Home' and 'ADMINISTRATION' categories.

Object

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

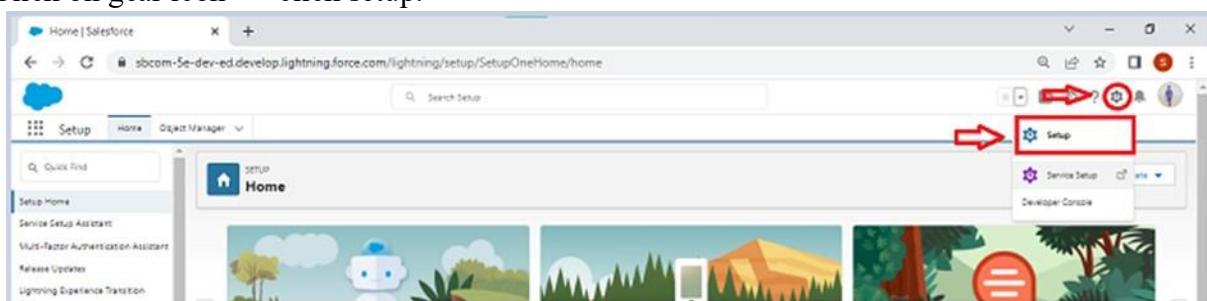
Salesforce objects are of two types:

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. [Use Case](#):

Creating an object in Salesforce organisation is essential for efficient data management and process automation. By defining custom objects, businesses can structure and store data specific to their needs, enabling streamlined workflows, personalized reporting, and enhanced user experiences. Objects serve as the foundation for organizing and leveraging critical information within Salesforce.

To Navigate to Setup page:

Click on gear icon >> click setup.



Create Jewel Customer Object

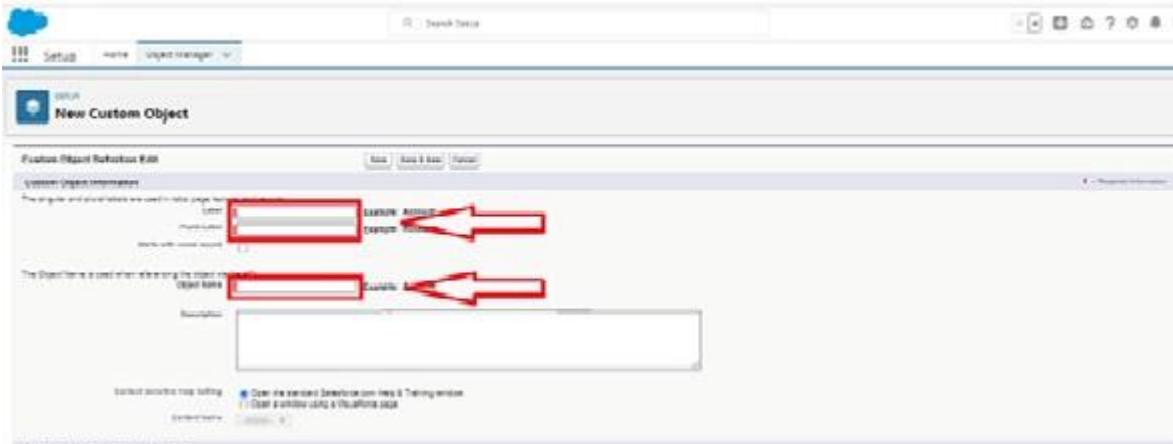
The purpose of creating a Jewel Customer custom object is to store and manage information about Customer.

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 : Jewel Customer
2. Plural label name : Jewel Customers



1. Enter the label name : Jewel Customer
2. Plural label name : Jewel Customers

Enter Record Name Label and Format

The Record Name appears in page layouts, key lists, related lists, lookups, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name field is always called "Name" when referenced via the API.

Record Name	<input type="text" value="Customer"/> Example: Account Name
Data Type	<input type="button" value="Text"/>

Optional Features

<input checked="" type="checkbox"/> Allow Reports
<input type="checkbox"/> Allow Activities
<input type="checkbox"/> Track Field History
<input type="checkbox"/> Allow in Chatter Groups
<input type="checkbox"/> Enable Licensing i

Object Classification

When these settings are enabled, this object is classified as an Enterprise Application object. When these settings are disabled, this object is classified as a Light Application object. [Learn more](#).

<input checked="" type="checkbox"/> Allow Sharing
<input checked="" type="checkbox"/> Allow Bulk API Access
<input checked="" type="checkbox"/> Allow Streaming API Access

Deployment Status

<input type="radio"/> In Development	<input checked="" type="radio"/> Deployed
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0. Click on Allow reports.
0. Allow search and click Save.

Create Item Object

The purpose of creating a Item object is to manage the inventory of gold and silver items.

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 >> Item
2. Plural label name >> Items
3. Enter Record Name Label and Format • Record Name >> Item Id
 - Data Type >> Auto Number
 - Display Format >> Item-{00}
 - Starting Number >> 1
0. Click on Allow reports.
0. Allow search >> Save.

Note: Create 3 more objects with label names as Customer, Order, Price, Billing

(Use "Auto Number" as a data type for Customer, Order, Price, Billing).

Tabs

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:

1. 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.

0. 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.

0. 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.

0. Lightning Component Tabs

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

0. 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.

Use Case:

Creating Objects and storing Jewels data is the very first step in the requirements they want. Now to access the stored data by an Owner(Gold Smith) in the organisation Admin needs to create Tabs. By designing a dedicated Tab, businesses can improve user experience, simplify navigation, and provide quick access to critical information, enhancing productivity and ensuring efficient utilisation of Salesforce's capabilities.

Creating a Custom Tab

To create a Tab:(Customer)

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

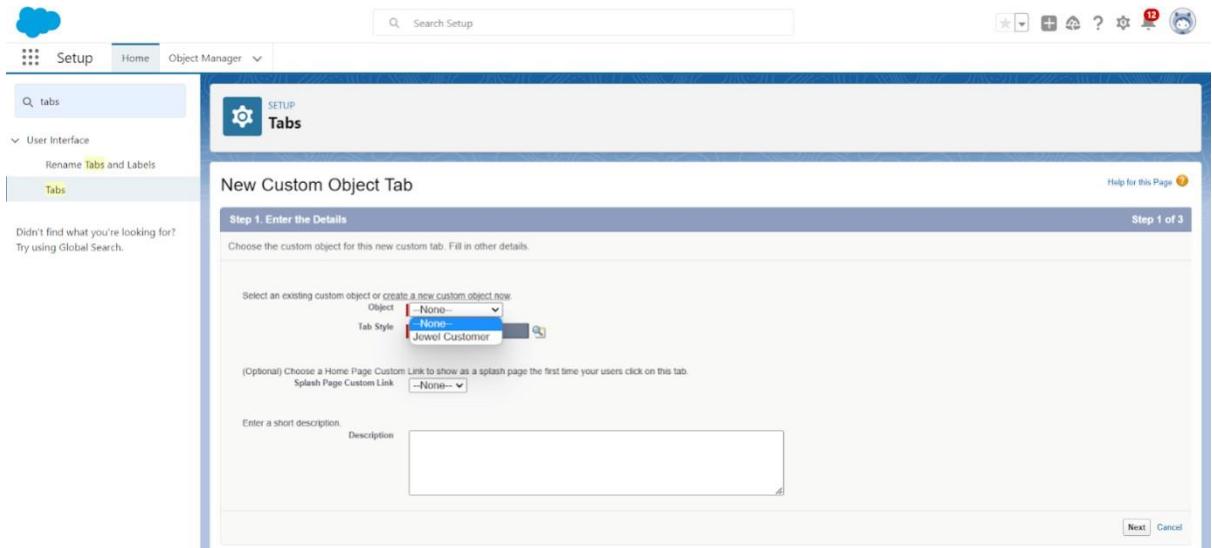


Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external pages. Lightning Component tabs allow you to add Lightning components to the navigation bar. Tabs let you add Lightning Pages to Lightning Experience and the mobile app.

0. Select Object(Jewel Customer) >> Select any tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) keep it as default >> Save.



To create a Tab:(Item)

1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)
2. Select Object(Item) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) keep it as default >> Save.

Note: Now create tabs for Customer Order, Price, Billing objects.

The Lightning App

An app is a collection of items that work together to serve a particular function. In Lightning Experience, Lightning apps gives 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. [Use Case:](#)

Well done you have reached close to your requirement by creating the objects to store the organization's data. Making a database for an organization is just not enough to reach out the requirements, the task is how the users at the organization can access the objects you have created for them. As an Admin for the organization it's your duty to make sure every user of the organization is able to access the data modelling structure.

Create a Lightning App

To create a lightning app page:

1. Go to setup page >> search “app manager” in quick find >> select “app manager” >> 2. click on New lightning App.

The screenshot shows the Salesforce App Manager interface. At the top, there are three tabs: 'App Manager' (highlighted with a red box), 'Home', and 'Object Manager'. Below the tabs, there is a search bar and a toolbar with various icons. A large red arrow points from the 'App Manager' tab to the 'New Lightning App' button, which is highlighted with a red box. Another red box highlights the 'Clone (Appx.Beta)' link below the search bar. The main area displays a table of existing apps, with columns for 'App Name', 'Developer Name', 'Description', 'Last Modified ...', 'App Type', and 'V...'. The table lists 13 items, including 'All Tabs', 'Analytics Studio', 'App Launcher', 'B2C Solutions', 'Chatter Desktop', 'Chatter Mobile for BlackBerry...', 'College Management System', 'Community', 'Content', 'Data Manager', 'AI Test', 'Insights', 'App Launcher tabs', 'Lightning...', 'Chatter Desktop', 'Chatter Mobile', 'demio app', 'Salesforce CRM Community', 'Salesforce CRM Content', and 'Data Manager'. The 'App Type' column indicates most are 'Classic' or 'Connected (Managed)'. The 'Last Modified ...' column shows dates ranging from 04/12/2022 to 28/12/2022.

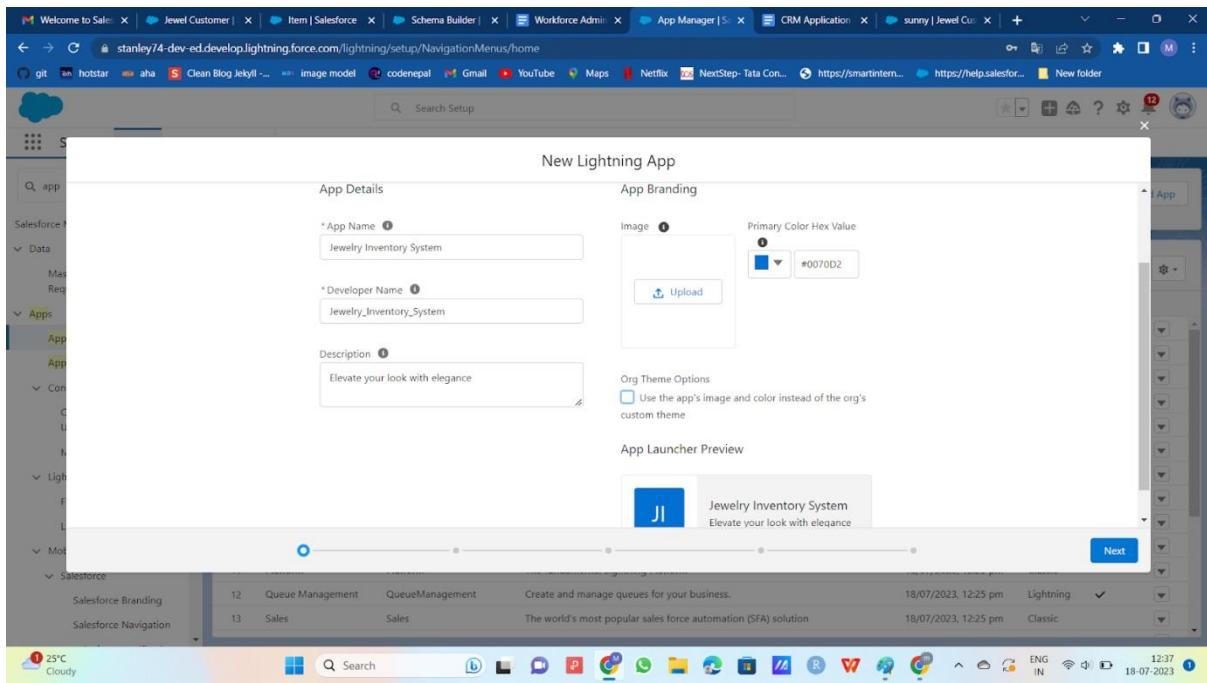
Fill the app name in app details and branding as follow

App Name : Jewellery Inventory System.

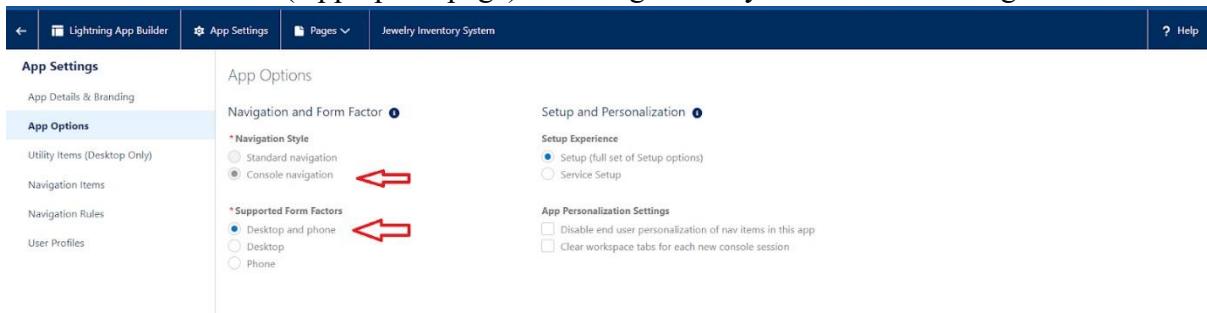
Developer Name : This will auto populated

Description : Elevate your look with elegance

Image : optional (if you want to give any image you can otherwise not mandatory) Primary colour hex value : keep this default.

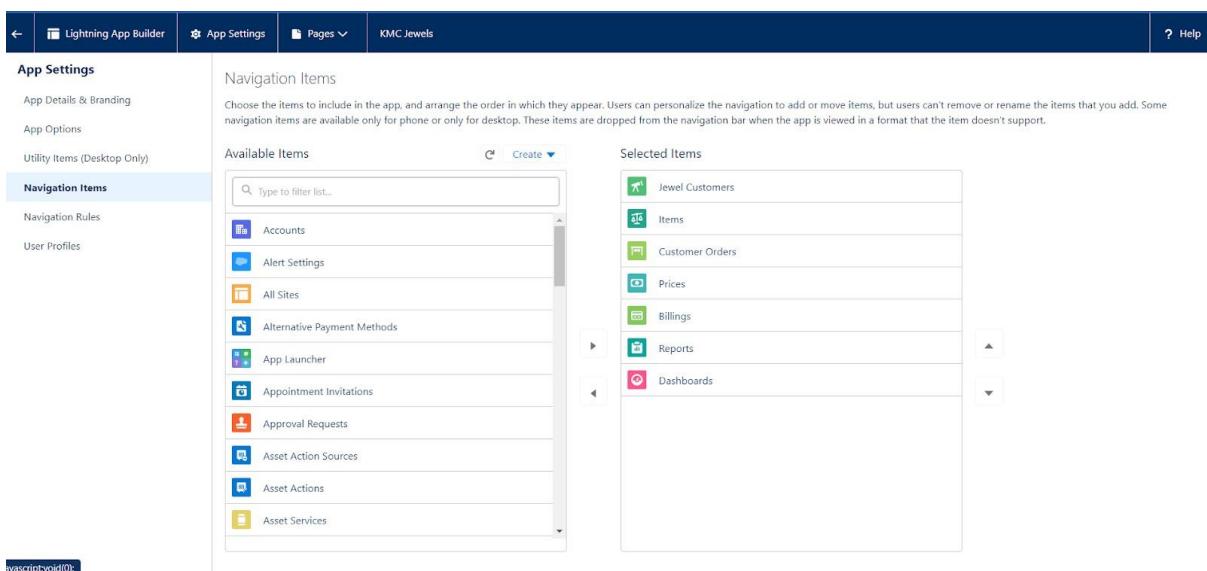


1. Then click Next >> (App option page) Set Navigation Style as Console Navigation >> Next.

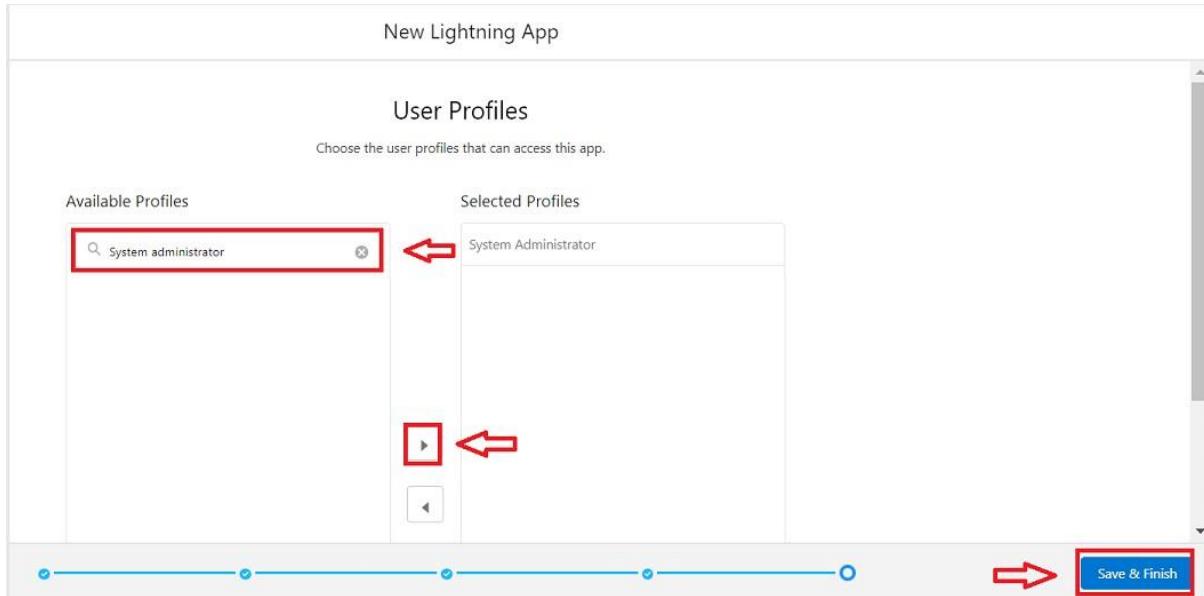


0. (Utility Items) keep it as default >> Next.

0. To Add Navigation Items:



0. Search for the item in the (JewelCustomer,Item,CustomerOrder,Price,Billing,Reports, Dashboard) from the search bar and move it using the arrow button ? Next? Next.
0. To Add User Profiles:



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

Fields

When we talk about Salesforce, Fields represent the data stored in the columns of a relational database. It can 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,

>> Created By
 >> Owner
 >> Last Modified
 >> 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 organiser 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.

Use Case:

Now it's time for you to think out of the box for your organisation. You have successfully created the database objects for the organisation but now all eyes turn on you as you have to define what sort of information the objects store which you have created. As a life saver of your organisation you come up with the idea of creating fields to store different types of data.

Creating Lookup Relationship

A Lookup relationship is a type of relationship in Salesforce that connects two objects together based on a field known as the Lookup field. It establishes a relationship between a child object and a parent object, allowing the child object to reference the parent object.

To Create a relationship between Jewel Customer & Customer Order Objects.

1. Go to the setup page >> click on object manager >> type object name(Customer Order) in the quick find bar >> click on the object.
2. Click on fields & relationship >> click on New.
3. Select “Lookup relationship” as data type and click Next.
4. Select the related object “Jewel Customer”.
5. Give Field Label as “Customer” and click Next.
6. 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 behaviours 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 Item & Customer Order Object.

To Create a Master-Detail relationship :

1. Go to the setup page >> click on object manager >> type object name(Customer Order) in the quick find bar >> click on the object.
2. Click on fields & relationships >> click on New.

3. Select “Master-Detail relationship” as data type and click Next.
4. Select the related object “ Item”.
5. Give Field Label as “Item” and click Next.
6. Next>> Next >> Save.

Creating Text Field in Jewel Customer Object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Jewel Customer) in quick find bar >> click on the object.

The screenshot shows the Salesforce Object Manager interface. At the top, there's a search bar with the text 'jewel'. Below it, a table lists objects. The first row, 'Jewel Customer', has its 'Label' field highlighted with a red box and a red arrow pointing to it. The 'API Name' column shows 'Jewel_Customer__c', the 'Type' column shows 'Custom Object', and the 'Last Modified' column shows '7/18/2023'.

0. Now click on “Fields & Relationships” >> New
1. Select Data type as “Text”.
2. Click on Next

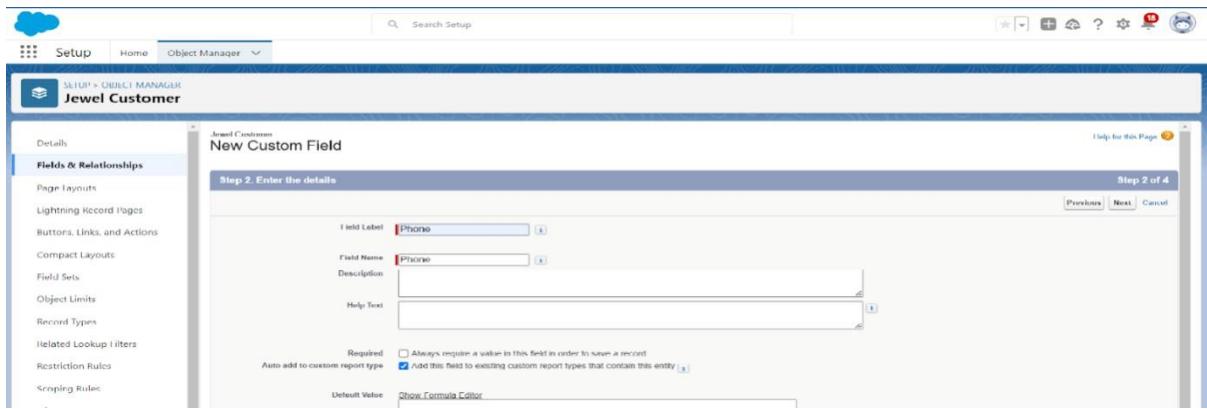
The screenshot shows the 'New Custom Field' creation wizard, Step 2 of 4. It's titled 'Jewel Customer: New Custom Field'. The 'Field Label' is set to 'City', 'Length' is set to '20', and 'Field Name' is also 'City'. A note says 'Please enter the maximum length for a text field below.' The sidebar on the left shows 'Fields & Relationships' selected.

0. Fill the above as following:
 - o Field Label: City o Length : 20 o Field Name : gets auto generated o Click on Next >> Next >> Save and new.

Creating the Phone field in object Jewel Customer

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Jewel Customer) in quick find bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as “Phone” and click Next.
4. Given the Field Label as “ Phone”.



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

Creating the Email field in object Jewel Customer

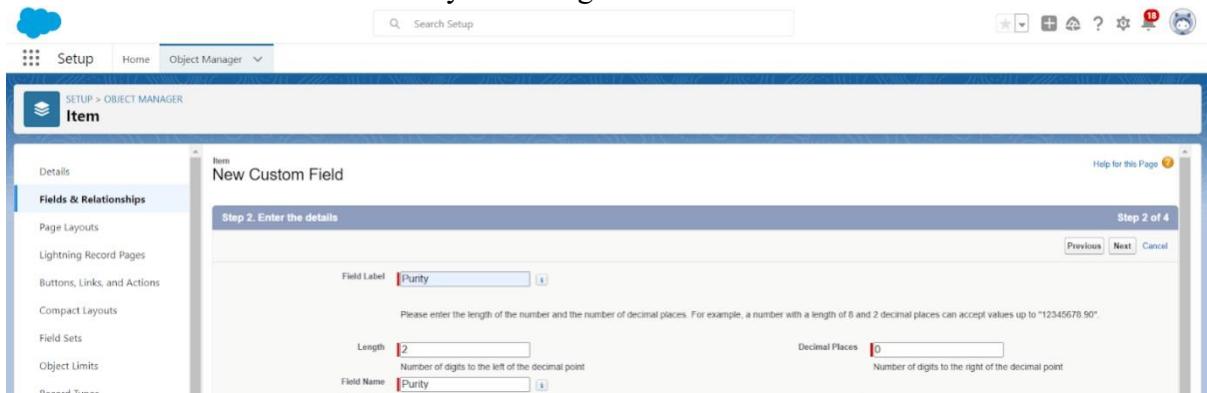
To create fields in an object:

- Go to setup >> click on Object Manager >> type object name(Jewel Customer) in quick find bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as “Email” and click Next.
- Given the Field Label as “ Email”.
- Field Name will be auto populated, and click on Next >> Next >> Save.

Creating the number field in Item object

To create fields in an object:

- Go to setup >> click on Object Manager >> type object name(Item) in quick find bar? click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as “Number” and click Next.
- Given the Field Label as “ Purity” and length as “ 2 ”.



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

Creating Picklist Field in Item Object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Item) in quick find bar>> click on the object.
2. Now click on “Fields & Relationships” >> New.
3. Select Data type as “Picklist” and click Next.
4. Enter Field Label as “Item Type”.
5. In values select “Enter values(Gold,Silver), with each value separated by a new line” and enter values as shown below.

The screenshot shows the 'New Custom Field' wizard for the 'Item' object. Step 2 of 4 is displayed. The 'Field Label' is 'Item Type'. Under 'Values', the 'Enter values, with each value separated by a new line' option is selected, and 'Gold' and 'Silver' are listed. Other options like 'Display values alphabetically, not in the order entered' and 'Use first value as default value' are available but not selected. The 'Field Name' is 'Item_Type'.

0. Click Next? Next ?Next ?Save .

Creating Currency Field in Price Object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Price) in quick find bar >> click on the object.
2. Now click on “Fields & Relationships” >> New.
3. Select Data type as “Currency” and click Next.

The screenshot shows the 'New Custom Field' wizard for the 'Price' object. Step 2 of 4 is displayed. The 'Field Label' is 'Gold price'. A note says 'Please enter the length of the number and the number of decimal places. For example, a number with a length of 8 and 2 decimal places can accept values up to "12345678.90".' The 'Length' is set to 8 and 'Decimal Places' is set to 0. The 'Field Name' is 'Gold_price'.

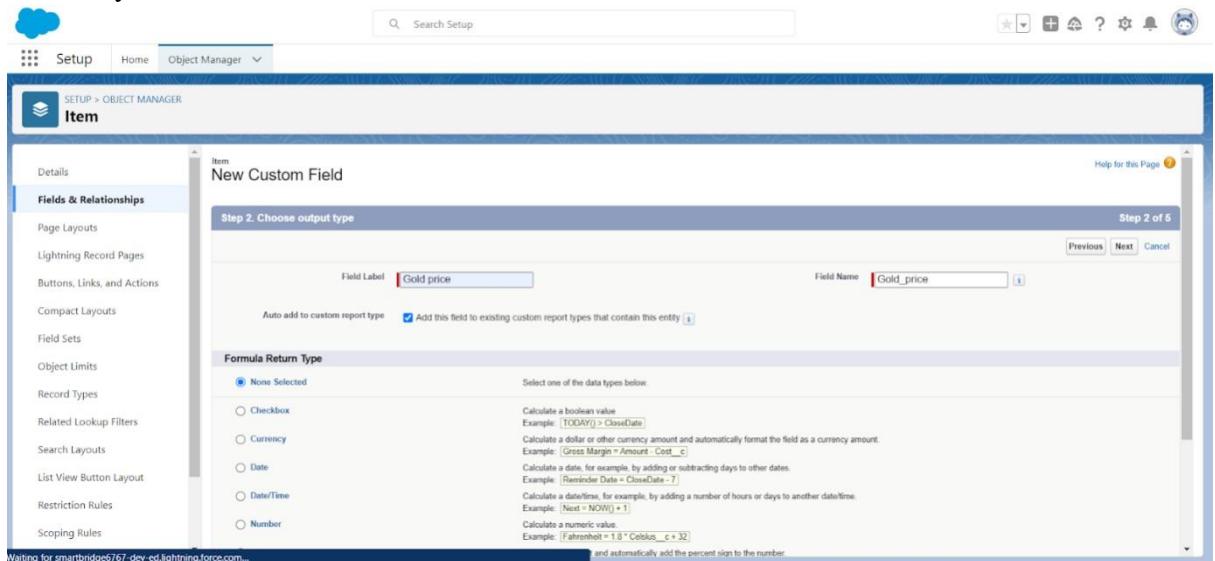
1. Enter Field Label as “Gold Price” and length as “ 8”and decimal 0.Field name will be auto generated.
2. Click Next >> Next >> Next >>Save .

Creating Formula Field(Cross Object) in Item Object

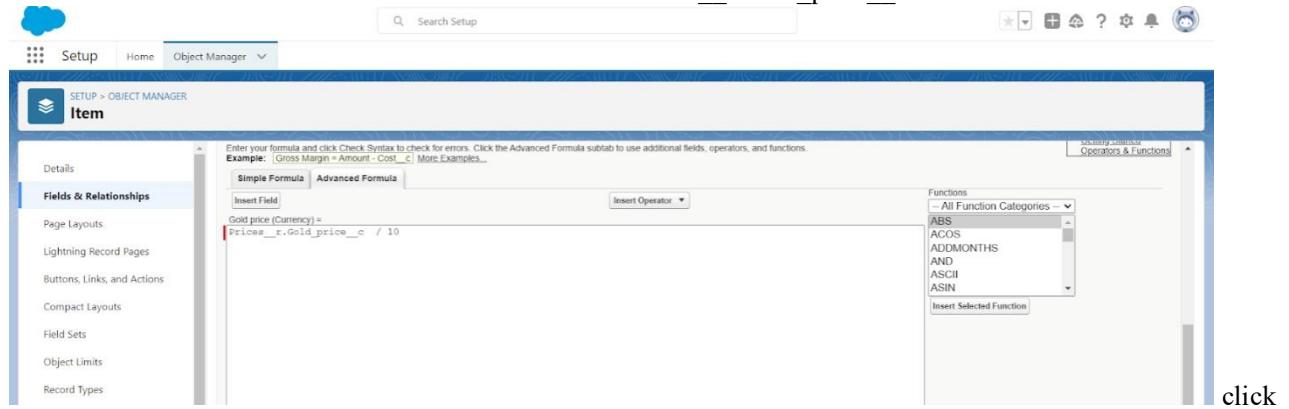
To create fields in an object:

(Note: Create a Lookup Relationship in Item Object to Price Object with Field Name:Prices)

1. Go to setup >> click on Object Manager >> type object name(Item) in quick find bar? click on the object.
2. Now click on “Fields & Relationships” >> New.
3. Select Data type as “Formula” and click Next.
4. Give Field Label and Field Name as “Gold Price” and select formula return type as “Currency” and click next.



Under Advanced Formula write down the formula :Prices__r.Gold_price__c / 10.



“Check Syntax” and Next >> Next >> Save & New.

Creating Remaining Fields in Objects

Now create the remaining fields using the data types mentioned.

s.no	Object name	Fields
------	-------------	--------

1	Jewel Customer	<table border="1"> <thead> <tr> <th>Field Name</th><th>Data type</th></tr> </thead> <tbody> <tr> <td>State</td><td>Text(20)</td></tr> <tr> <td>Street</td><td>Text(20)</td></tr> <tr> <td>Country</td><td>Text(18)</td></tr> <tr> <td>Zip/Postal code</td><td>Text(6)</td></tr> </tbody> </table>	Field Name	Data type	State	Text(20)	Street	Text(20)	Country	Text(18)	Zip/Postal code	Text(6)
Field Name	Data type											
State	Text(20)											
Street	Text(20)											
Country	Text(18)											
Zip/Postal code	Text(6)											

2	Price	<table border="1"> <tr> <td>Silver Price</td><td>Currency (Length=8,Decimal=5)</td></tr> </table>	Silver Price	Currency (Length=8,Decimal=5)
Silver Price	Currency (Length=8,Decimal=5)			

3	Item	<table border="1"> <tr> <td>Field Label:Customer Name</td><td>Lookup Relationship with Jewel Customer Object</td></tr> <tr> <td>Ornament</td><td>Text(20)</td></tr> <tr> <td>Weight</td><td>Number (Length=8,Decimal=5)</td></tr> <tr> <td>Stone Weight</td><td>Number (Length=5,Decimal=5)</td></tr> </table>	Field Label:Customer Name	Lookup Relationship with Jewel Customer Object	Ornament	Text(20)	Weight	Number (Length=8,Decimal=5)	Stone Weight	Number (Length=5,Decimal=5)
Field Label:Customer Name	Lookup Relationship with Jewel Customer Object									
Ornament	Text(20)									
Weight	Number (Length=8,Decimal=5)									
Stone Weight	Number (Length=5,Decimal=5)									

	Percentage	Number (Length=2,Decimal=0)
	Stone/Other Price	Currency (Length=8,Decimal=2)
	Expected Days Of Return	Picklist <div style="border: 1px solid black; padding: 5px; width: fit-content;"> 1-3 Days 4-5 Days 6-7 Days 8-10 Days </div>
	Priority	Picklist <div style="border: 1px solid black; padding: 5px; width: fit-content;"> Low Medium High Critical </div>
	Silver Price	Formula (Return Type:Number) (Decimal=3) <div style="border: 1px solid black; padding: 5px; width: fit-content;"> $(\text{Prices_r.Silver_price_c} / 1000)$ </div>
	Purity Gold Price	Formula (Return Type:Currency) (Decimal=2)

		$((\text{Prices_r.Gold_price_c} * \text{Purity_c}) / 24) / 10$
Total Weight	Formula (Return Type:Number) (Decimal=3)	$(\text{Weight_c} - \text{Stone_weight_c})$
Amount	Formula (Return Type:Currency) (Decimal=3)	$\text{IF}(\text{ISPICKVAL}(\text{Item_Type_c}, "Gold"), \text{Total_weight_c} * \text{Purity_Gold_price_c}, \text{Total_weight_c} * \text{Silver_price_c})$
KDM	Formula (Return Type:Currency) (Decimal=0)	$(\text{Amount_c} * \text{Percentage_c}) / 100$
Making Charges	Formula (Return Type:Currency) (Decimal=0)	

			<pre>IF(ISPICKVAL(Item_Type_c , "Gold"), Weight_c * 300 , Weight_c * 10)</pre>

4	Customer Order					
	<table border="1"> <tr> <td>Order Status</td> <td>Picklist</td> </tr> <tr> <td></td> <td> <ul style="list-style-type: none"> Started Not Started On Hold Completed Not Completed </td> </tr> </table>	Order Status	Picklist		<ul style="list-style-type: none"> Started Not Started On Hold Completed Not Completed 	
Order Status	Picklist					
	<ul style="list-style-type: none"> Started Not Started On Hold Completed Not Completed 					

5	Now create the remaining fields using the data types mentioned.		
	s.no	Object name	Fields

		Jewel Customer											
1		<table border="1"> <thead> <tr> <th>Field Name</th><th>Data type</th></tr> </thead> <tbody> <tr> <td>State</td><td>Text(20)</td></tr> <tr> <td>Street</td><td>Text(20)</td></tr> <tr> <td>Country</td><td>Text(18)</td></tr> <tr> <td>Zip/Postal code</td><td>Text(6)</td></tr> </tbody> </table>	Field Name	Data type	State	Text(20)	Street	Text(20)	Country	Text(18)	Zip/Postal code	Text(6)	
Field Name	Data type												
State	Text(20)												
Street	Text(20)												
Country	Text(18)												
Zip/Postal code	Text(6)												
2	Price	<table border="1"> <tr> <td>Silver Price</td><td>Currency (Length=8,Decimal=5)</td></tr> </table>	Silver Price	Currency (Length=8,Decimal=5)									
Silver Price	Currency (Length=8,Decimal=5)												
3	Item	<table border="1"> <tr> <td>Field Label:Customer Name</td><td>Lookup Relationship with Jewel Customer Object</td></tr> <tr> <td>Ornament</td><td>Text(20)</td></tr> <tr> <td>Weight</td><td>Number (Length=8,Decimal=5)</td></tr> <tr> <td>Stone Weight</td><td>Number</td></tr> </table>	Field Label:Customer Name	Lookup Relationship with Jewel Customer Object	Ornament	Text(20)	Weight	Number (Length=8,Decimal=5)	Stone Weight	Number			
Field Label:Customer Name	Lookup Relationship with Jewel Customer Object												
Ornament	Text(20)												
Weight	Number (Length=8,Decimal=5)												
Stone Weight	Number												

		(Length=5,Decimal=5)
Percentage	Number (Length=2,Decimal=0)	
Stone/Other Price	Currency (Length=8,Decimal=2)	
Expected Days Of Return	Picklist	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> 1-3 Days 4-5 Days 6-7 Days 8-10 Days </div>
Priority	Picklist	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Low Medium High Critical </div>
Silver Price	Formula (Return Type:Number) (Decimal=3)	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> $(\text{Prices_r.Silver_price_c} / 1000)$ </div>
Purity Gold Price	Formula (Return Type:Currency) (Decimal=2)	

		$((\text{Prices_r.Gold_price_c} * \text{Purity_c}) / 24) / 10$
Total Weight	Formula (Return Type:Number) (Decimal=3)	$(\text{Weight_c} - \text{Stone_weight_c})$
Amount	Formula (Return Type:Currency) (Decimal=3)	$\text{IF}(\text{ISPICKVAL}(\text{Item_Type_c}, "Gold"), \text{Total_weight_c} * \text{Purity_Gold_price_c}, \text{Total_weight_c} * \text{Silver_price_c})$
KDM	Formula (Return Type:Currency) (Decimal=0)	$(\text{Amount_c} * \text{Percentage_c}) / 100$

		Making Charges	Formula (Return Type:Currency) (Decimal=0)
			<pre>IF(ISPICKVAL(Item_Type__c , "Gold"), Weight__c * 300 , Weight__c * 10)</pre>
4	Customer Order	Order Status	Picklist Started Not Started On Hold Completed Not Completed
5	Billin g	Field Label:Item	Lookup Relationship with Item Object

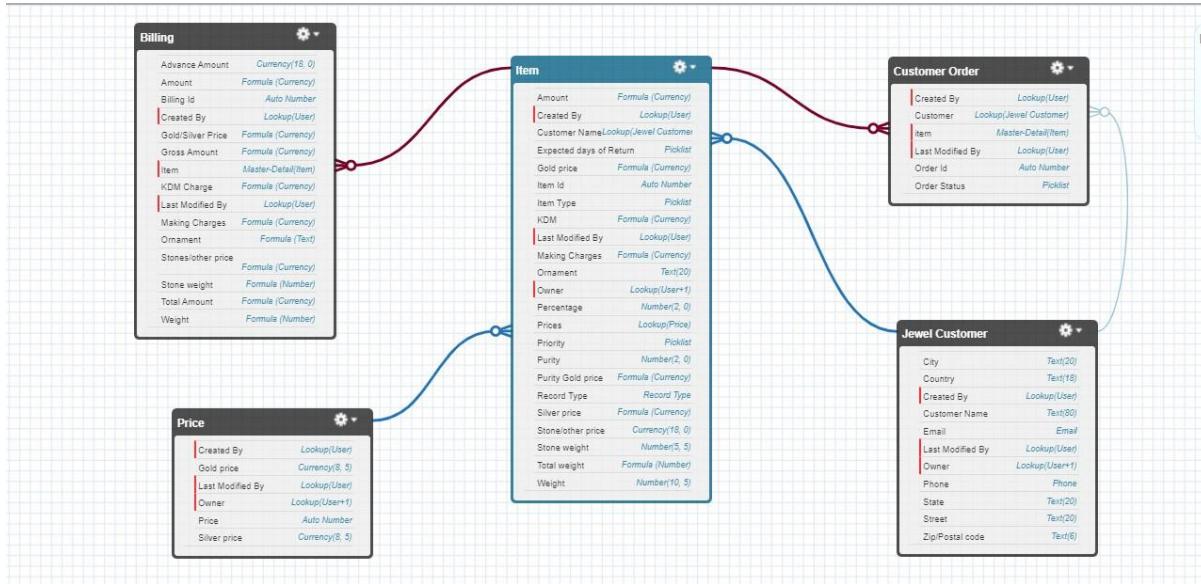
Ornament	Formula (Return Type:Text)	<div style="border: 1px solid black; padding: 5px;">Item__r.Ornament__c</div>
Stone weight	Formula (Return Type:Number) (Decimal=2)	<div style="border: 1px solid black; padding: 5px;">Item__r.Stone_weight__c</div>
Weight	Formula Return Type:Number (Decimal=2)	<div style="border: 1px solid black; padding: 5px;">Item__r.Total_weight__c</div>
Amount	Formula (Return Type:Currency) (Decimal=2)	<div style="border: 1px solid black; padding: 5px;">Item__r.Amount__c</div>
Gold/Silver Price	Formula (Return Type:Currency) (Decimal=2)	<div style="border: 1px solid black; padding: 5px;">IF(ISPICKVAL(Item__r.Item_Type__c , "Gold"), Item__r.Gold_price__c , Item__r.Silver_price__c)</div>

		KDM Charge	Formula (Return Type:Currency) (Decimal=0) Item_r.KDM_c
		Making Charges	Formula (Return Type:Currency) (Decimal=2) Item_r.Making_Charges_c
		Stones/other price	Formula (Return Type:Currency) (Decimal=2) Item_r.Stone_other_price_c
		Total Amount	Formula (Return Type:Currency) (Decimal=0) Amount_c + KDM_Charge_c + Stones_other_price_c + Making_Charges_c
Billing			

Schema Builder

Schema Builder is a powerful tool within Salesforce that allows you to visualise, explore, and design the relationships between objects in your Salesforce organisation. It provides a

graphical representation of the data model, making it easier to understand the structure and connections between different objects.

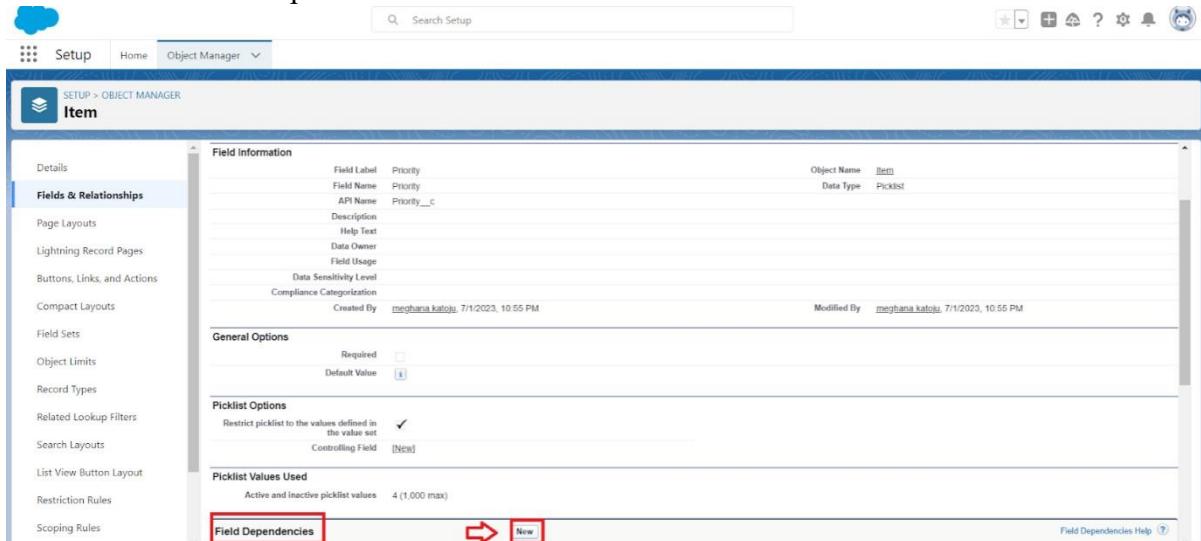


Creating the Field Dependencies

Use case:

Field Dependencies are used to create relationships between fields within an object. They allow you to control the visibility and availability of fields based on the values selected in other fields.

1. Go to setup >> click on Object Manager >> type object name(Item) in quick find bar >> click on the object.
2. Click on Fields & Relationships and click on the Priority field.
3. Search for Field Dependencies and click on New.



Select Controlling Field as “Priority” and Depending field as “Expected Days of Return” >> Continue.

New Field Dependency

Create a dependent relationship that causes the values in a picklist or multi-select picklist to be dynamically filtered based on the value selected by the user in another field.

- The field that drives filtering is called the "controlling field." Standard and custom checkboxes and picklists with at least one and less than 300 values can be controlling fields.
- The field that has its values filtered is called the "dependent field." Custom picklists and multi-select picklists can be dependent fields.

Step 1. Select a controlling field and a dependent field. Click Continue when finished.

Step 2. On the following page, edit the filter rules that control the values that appear in the dependent field for each value in the controlling field.

Select the “Expected Days of Return” values of related Priority values and Click on Include Values >> Save.

Creating the validation rule

Creating the validation rule for Postal Code field in Jewel Customer object

Note : check whether the fields mentioned in the formula field are created or not , if not go to activity 10 and create those fields mentioned in Jewel Customer object.

1. Go to setup >> click on Object Manager >> type object name(Jewel Customer) in quick find bar>> click on the object.
2. Click on the validation rule >> click New.

The screenshot shows the Salesforce Object Manager interface for the 'Jewel Customer' object. On the left, a sidebar lists various configuration options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Restriction Rules, Scoping Rules, Triggers, Flow Triggers, and Validation Rules. The 'Validation Rules' option is highlighted with a red box. The main content area is titled 'Validation Rules' and shows a table with one column: 'RULE NAME'. A red box highlights the 'New' button in the top right corner of the table header.

0. Enter the Rule name as “Postal Code “.

0. Insert the Error Condition Formula as : -

AND(

OR(

LEN(Zip_Postal_code__c) <> 6, NOT(REGEX(Zip_Postal_code__c,
"^[0-9]{6}\$"))),

NOT(ISBLANK(Zip_Postal_code__c))

)

)

SETUP > OBJECT MANAGER
Jewel Customer

Error and try again.

Details	Validation Rule Edit	Save Save & New Cancel
Fields & Relationships	Rule Name: Postal_Code	
Page Layouts	Active: <input checked="" type="checkbox"/>	
Lightning Record Pages	Description:	
Buttons, Links, and Actions		
Compact Layouts		
Field Sets		
Object Limits		
Record Types		
Related Lookup Filters		
Restriction Rules		
Scoping Rules		
Triggers		
Flow Triggers		
Validation Rules	Error Condition Formula Example: <input type="text"/> 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 ▾ <pre>AND(OR(LEN(Zip_Postal_code_c) <> 6, NOT(REGEX(Zip_Postal_code_c, "^[0-9]{6}\$"))), NOT(ISBLANK(Zip_Postal_code_c)))</pre> Check Syntax No errors found	
	Error Message Example: <input type="text"/> Discount percent cannot exceed 30% This message will appear when Error Condition formula is true Error Message: Must contain 6 digits This error message can either appear at the top of the page or below a specific field on the page Error Location: <input type="radio"/> Top of Page <input checked="" type="radio"/> Field Zip/Postal code	
	Save Save & New Cancel	

- Enter the Error Message as “Must contain 6 digits”, select the Error location as Field and select the field as “Zip/Postal code”, and click Save.

NOTE:

Create One more Validation rule for Jewel Customer object.

- Enter Rule name as “ValidationRuleForJewelCustomerObject”.
- Insert the Error Condition Formula as : -

$$\text{OR(ISBLANK(City_c), ISBLANK(Country_c), ISBLANK(Phone_c), ISBLANK(State_c), ISBLANK(Street_c))}$$
- Enter the Error Message as “Please fill Required fields”, select the Error location as Top of Page and click Save.

Create Validation rule for Item object.

- Enter Rule name as “ValidationRuleFor Item”.
- Insert the Error Condition Formula as : -

$$\text{OR(ISBLANK(Amount_c), ISBLANK(Customer_Name_c), ISBLANK(Gold_price_c), ISBLANK(KDM_c), ISBLANK(Ornament_c), ISBLANK(Percentage_c), ISBLANK(Making_Charges_c), ISBLANK(Prices_c), ISBLANK(Stone_weight_c), ISBLANK(Silver_price_c), ISBLANK(Stone_other_price_c))}$$

-),ISBLANK(Stone_weight_c),ISBLANK(Weight_c))
3. Enter the Error Message as “Please fill Required fields”, select the Error location as Top of Page and click Save.

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.

0. Custom Profiles:

Custom ones defined by us.

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

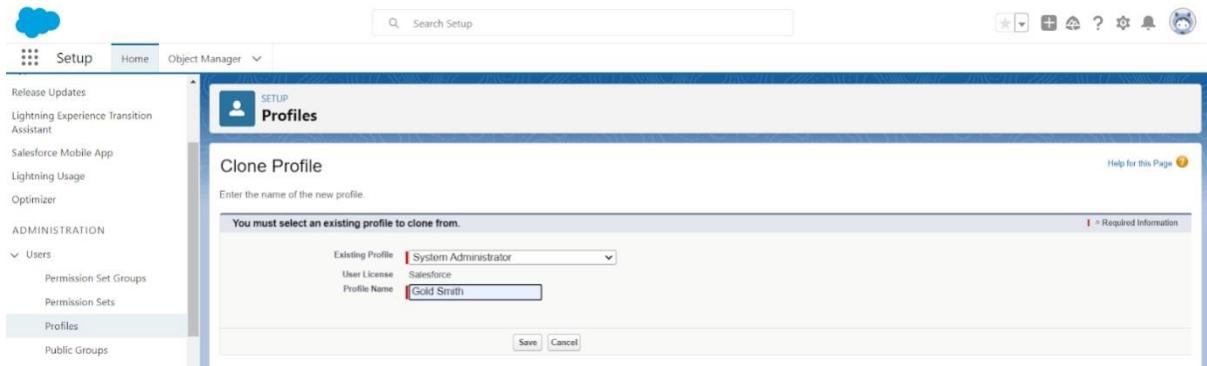
Use Case:

Great work Admin, you have done so good till now. The GoldSmith wants to differentiate the users based on their functionalities, position and based on this those users need to have the minimum access to the database object in the organisation. Now it's time to use your Admin skills to focus on the users, their functionality and position in the organisation in order to achieve the Goldsmith Smith requirements.

Gold Smith Profile

To create a new profile:

1. Go to setup >> type profiles in quick find box >>click on profiles ?clone the desired profile (System Administrator) >> enter profile name (Gold Smith) >> Save.



0. While still on the profile page, then click Edit.
0. Scroll down to Custom Object Permissions and Give access permissions for Jewel Customer,Item,CustomerOrder,Prices,Billings .

Object	Basic Access						Data Administration	
	Read	Create	Edit	Delete	View All	Modify All		
Assets	<input type="checkbox"/>							
Asset Services	<input type="checkbox"/>							
Billings	<input checked="" type="checkbox"/>							
Book1	<input type="checkbox"/>							
Book2	<input type="checkbox"/>							
Bot Commands	<input type="checkbox"/>							
Brokers	<input type="checkbox"/>							
Buyers	<input type="checkbox"/>							
Candidates	<input type="checkbox"/>							
Customer Orders	<input checked="" type="checkbox"/>							

Object	Basic Access						Data Administration	
	Read	Create	Edit	Delete	View All	Modify All		
Items	<input checked="" type="checkbox"/>							
Jewel Customers	<input checked="" type="checkbox"/>							
Job Applications	<input type="checkbox"/>							
Job Postings	<input type="checkbox"/>							
Job Posting Sites	<input type="checkbox"/>							
Positions	<input type="checkbox"/>							
Prices	<input checked="" type="checkbox"/>							
Projects	<input type="checkbox"/>							
ProjectTasks	<input type="checkbox"/>							
Properties	<input type="checkbox"/>							

0. Scroll down and Click on Save.

Worker Profile

1. Go to setup >> type profiles in quick find box >> click on profiles >> clone the desired profile (Salesforce Platform User) >> enter profile name () >> Save.
2. While still on the profile page, then click Edit.
3. Scroll down to Custom Object Permissions and Give access permissions for Items,Price and Customer Order objects.
4. Scroll down and Click on Save.

Roles

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 organisation can have to data. Simply put, it describes what a user could see within the Salesforce organisation.

Use Case:

You have successfully fulfilled the 1st requirement i.e., differentiating the users based on the functionality. Now comes the 2nd task of differentiating the users based on their position,

using your excellent admin skills and expanding the custom roles for the organisation and assigning it to the users.

Creating Gold Smith Role

- From setup ,Go to quick find >> Search for Roles >> click on set up roles.

Q: roles

Users

Roles

Feature Settings

Sales

Contact Roles on Contracts

Contact Roles on Opportunities

Service

Case Teams

Case Team Roles

Contact Roles on Cases

Help for this Page

Understanding Roles

Set up your Role Hierarchy to control how your organization reports on and accesses data.

Sample Role Hierarchy

View other sample Role Hierarchies [Territory-based Sample](#)

Executive Staff

CEO President **CFO**, **VP Sales**

Western Sales Director **Eastern Sales Director** **International Director**

Western Sales Rep **Eastern Sales Rep** **International Sales Rep**

View & edit data, roll up forecasts, & access reports for all users below this level or of other Executive Staff

View & edit data, roll up forecasts, & access reports for all users directly below this level

View & edit data, roll up forecasts, & access reports only for own data or for users above or at same level

Set Up Roles

Didnt find what you're looking for? Try using Global Search.

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

Collapse All **Expand All**

Nick Enterprises

- Add Role**
- CEO** [Edit](#) | [Del](#) | [Assign](#)
- HR** [Edit](#) | [Del](#) | [Assign](#)
- Manager** [Edit](#) | [Del](#) | [Assign](#)
- On Site Emp** [Edit](#) | [Del](#) | [Assign](#)
- Remote Emp** [Edit](#) | [Del](#) | [Assign](#)

- Give Label as “Gold Smith” and Role name gets auto populated. Check to whom this role (Gold Smith) reports. Then click on Save.

Search Setup

Q: roles

Users

Roles

Feature Settings

Sales

Contact Roles on Contracts

Contact Roles on Opportunities

Service

Case Teams

Case Team Roles

Contact Roles on Cases

Help for this Page

Role Edit

Gold Smith

Role Edit

Label **Gold Smith**

Role Name **Gold_Smith**

This role reports to **CEO**

Role Name as displayed on reports **Gold Smith**

Save Save & New Cancel

Didnt find what you're looking for? Try using Global Search.

Create one more role as Worker which reports to Gold Smith.

Creating the Role Hierarchy

You can build on the existing role hierarchy shown on this page. To insert a new role, click **Add Role**.

The screenshot shows a hierarchical list of roles under 'Meghana'. The roles listed are: CEO, CFO, COO, Gold Smith, HR, Manager, SVP Customer Service & Support, and SVP Human Resources. Under 'Gold Smith', there is a single child role named 'Worker'. Each main role has an 'Edit | Del | Assign' button and an 'Add Role' button. A 'Show in tree view' button is located in the top right corner of the interface.

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.

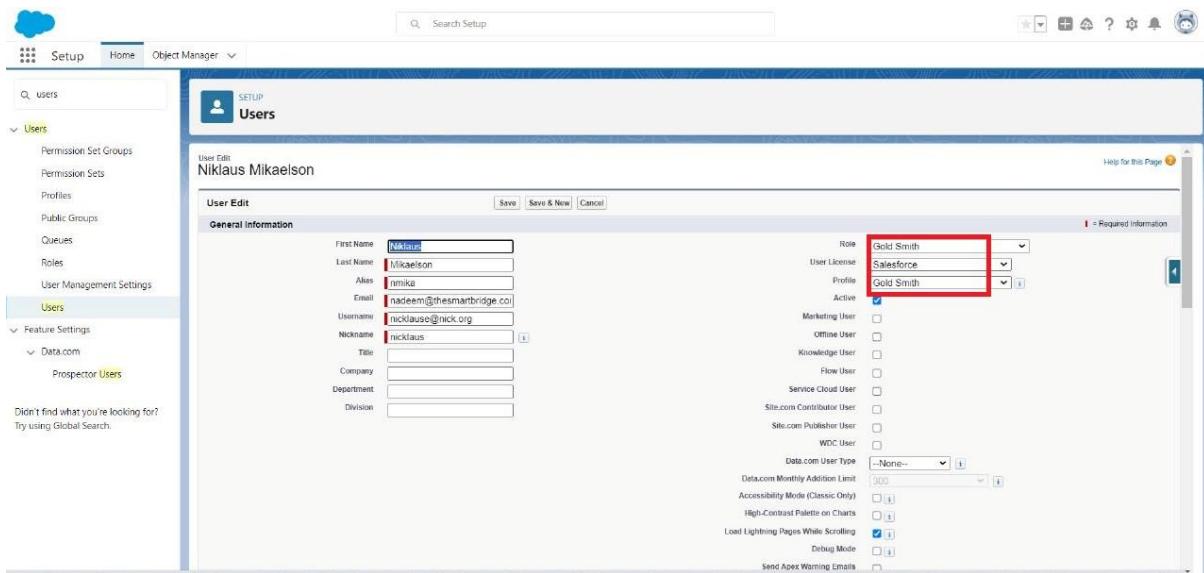
Every user in Salesforce has a user account. The user account identifies the user, and the user account settings determine what features and records the user can access. Each user account contains at least the following:

- Username
- Email Address
- User's First Name (optional)
- User's Last Name
- Alias
- Nickname
- Licence
- Profile
- Role (optional)

Create User

1. Go to setup >> type users in quick find box >> select users >> click New user.
2. Fill in the fields
 1. First Name : Niklaus
 2. Last Name : Mikaelson

3. Alias : Give a Alias Name
4. Email id : Give your Personal Email id
5. Username : Username should be in this form: text@text.text
6. Nick Name : Give a Nickname
7. Role : Gold Smith
8. User licence : Salesforce
9. Profiles : Gold Smith



Save.

Create User

1. Go to setup >> type users in quick find box >> select users >> click New user.
2. Fill in the fields

- First Name : Kol
- Last Name : Mikaelson
- Alias : Give a Alias Name
- Email id : Give your Personal Email id
- Username : Username should be in this form: text@text.text
- Nick Name : Give a Nickname
- Role : Worker
- User licence : Salesforce Platform
- Profiles : Worker

0. Save. Note:

Create two more users as mentioned in activity 2 using the same profile.

Page layouts

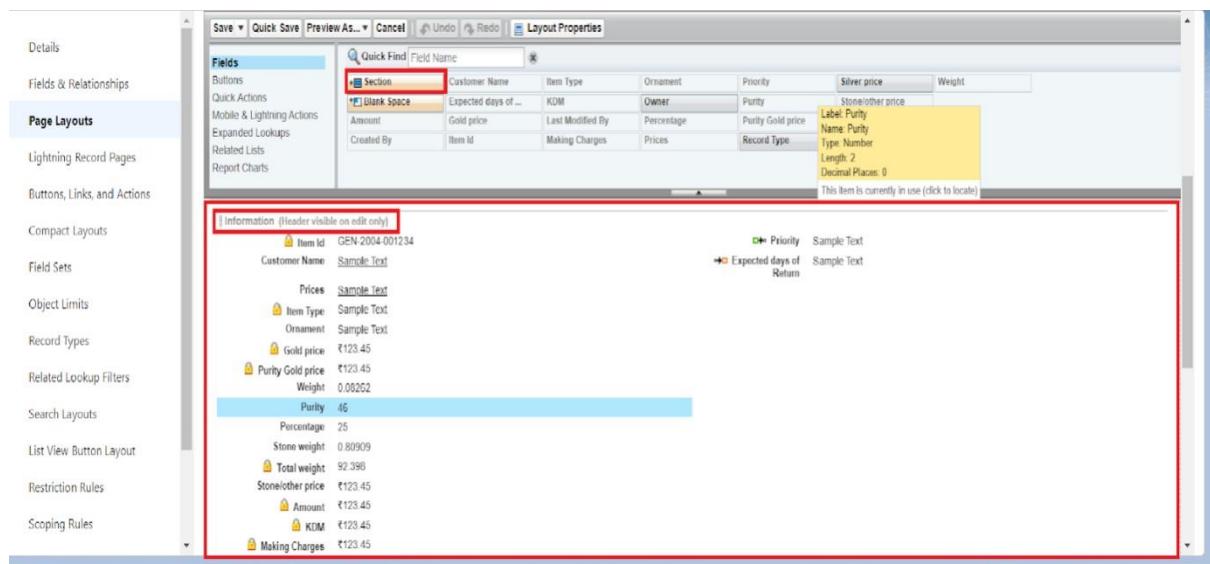
Page Layout in Salesforce allows us to customise the design and organise detail and edit pages of records in Salesforce. Page layouts can be used to control the appearance of fields, related lists, and custom links on standard and custom objects' detail and edit pages.

Use Case:

Hurray!! you have completed the data model structure for your organisation but while looking at the detailed and edit pages it seems to be so clumsy, so decide to organise the page in a pleasant way for the sake of good and pleasant appearance and assemble all different kinds of information in different sections in order.

To Create a Gold Page layout

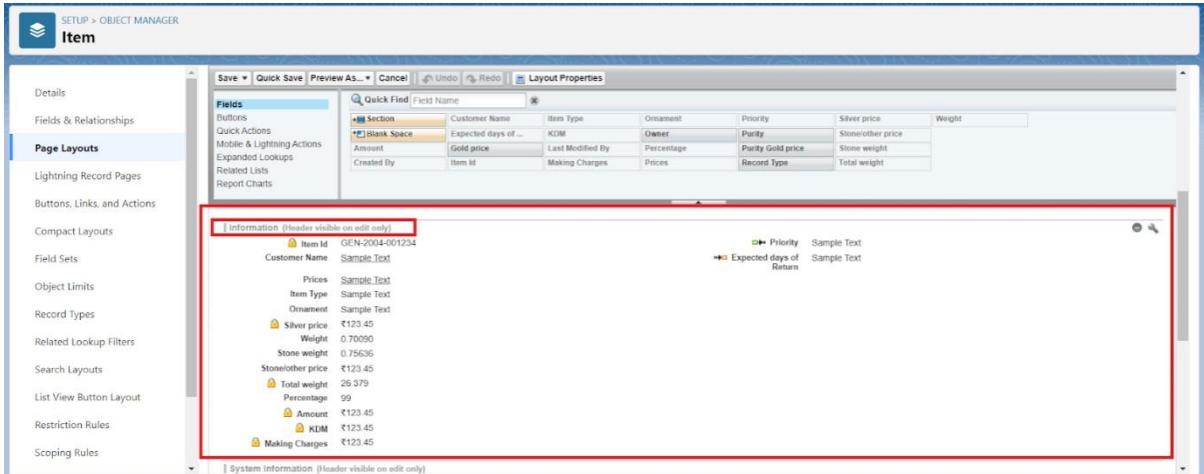
1. Go to Setup >> Click on Object Manager >> Search for the object (Item) >>From drop down click on Edit.
2. Click on Page layout >> Click on New.
3. Give Page layout Name as “Page Layout for Gold” and click on Save and New.
4. Arrange the field as shown in the Information Section ,remove fields which are related to Silver and click Ok.



- 5.Click Save.
- 6.Make sure your page layout looks like the picture above.

To Create a Silver Page layout

1. Go to Setup >> Click on Object Manager >> Search for the object (Item) >>From drop down click on Edit.
2. Click on Page layout >> Click on New.
3. Give Page layout Name as “Page Layout for Silver” and click on Save.
4. Arrange the field as shown in the Information Section ,remove fields which are related to Gold and click Ok.



Record Types

Record Types are a way of grouping many records of one type for that object. These can be applied to any standard or custom object, and allow you to have a different page layout, fields, required fields, and picklist values. Record types allow administrators to create a different page layout with custom picklist fields and values for the same business process and various business processes.

Use Case:

All things done for the organisation. But some of the organisations feel it difficult to fill up all the details while creating a record, so GoldSmith assigned you a task to create different forms for Gold and Silver records based on their mode of work. As an Admin, you know how to achieve this.

1. Go to setup >> click on Object Manager >> type object name(Item) in quick find bar? click on the object.
2. Click on the Record Types >> click New.
3. Select Existing Record as “Master”, Record type Label as “Gold”, Description as “Gold items information”.
4. Uncheck for “Make Available”.
5. Scroll down and check for the Gold Smith, Worker JW & System Administrator profile and click on Next.

The screenshot shows the Salesforce Setup interface with the following details:

Setup > OBJECT MANAGER

Item

Record Types

Profile	Page Layout	Action
Customer Portal Manager Standard	Gold (Default) :Silver	<input type="checkbox"/>
External Apps Login User	Gold (Default) :Silver	<input type="checkbox"/>
External Identity User	Gold (Default) :Silver	<input type="checkbox"/>
Force.com - App Subscription User	Gold (Default) :Silver	<input type="checkbox"/>
Force.com - Free User	Gold (Default) :Silver	<input type="checkbox"/>
Gold Partner User	Gold (Default) :Silver	<input type="checkbox"/>
Gold smith	Gold (Default) :Silver	<input checked="" type="checkbox"/>
High Volume Customer Portal	Gold (Default) :Silver	<input type="checkbox"/>
High Volume Customer Portal User	Gold (Default) :Silver	<input type="checkbox"/>
HR	Gold (Default) :Silver	<input type="checkbox"/>
HR Recruiter	Gold (Default) :Silver	<input type="checkbox"/>
Identity User	Gold (Default) :Silver	<input type="checkbox"/>
J Worker1	Gold (Default) :Silver	<input checked="" type="checkbox"/>
J Worker2	Gold (Default) :Silver	<input checked="" type="checkbox"/>
J WORKER3	Gold (Default) :Silver	<input checked="" type="checkbox"/>
Manager	Gold (Default) :Silver	<input type="checkbox"/>
Marketing User	Gold (Default) :Silver	<input type="checkbox"/>
Minimum Access - Salesforce	Gold (Default) :Silver	<input type="checkbox"/>
Partner Admin Subscription User	Gold (Default) :Silver	<input type="checkbox"/>

6. Select “Apply a different layout for each profile”, and change page layout to “Page Layout for Gold” for Gold Smith, Worker and System Administrator ?

Force.com - Free User	Item Layout ▾
Gold Partner User	Item Layout ▾
Gold smith	Page layout for Gold ▾
High Volume Customer Portal	Item Layout ▾
High Volume Customer Portal User	Item Layout ▾
HR	Item Layout ▾
HR Recruiter	Item Layout ▾
Identity User	Item Layout ▾
Manager	Item Layout ▾
Marketing User	Item Layout ▾
Minimum Access - Salesforce	Item Layout ▾
Partner App Subscription User	Item Layout ▾
Partner Community Login User	Item Layout ▾
Partner Community User	Item Layout ▾
Read Only	Item Layout ▾
s1	Item Layout ▾
Salesforce API Only System Integrations	Item Layout ▾
Sales User	Item Layout ▾
Sales User.	Item Layout ▾
Silver Partner User	Item Layout ▾
Solution Manager	Item Layout ▾
Standard Platform User	Item Layout ▾
Standard User	Item Layout ▾
...	

Save & New

HR	Item Layout ▾
HR Recruiter	Item Layout ▾
Identity User	Item Layout ▾
Manager	Item Layout ▾
Marketing User	Item Layout ▾
Minimum Access - Salesforce	Item Layout ▾
Partner App Subscription User	Item Layout ▾
Partner Community Login User	Item Layout ▾
Partner Community User	Item Layout ▾
Read Only	Item Layout ▾
s1	Item Layout ▾
Salesforce API Only System Integrations	Item Layout ▾
Sales User	Item Layout ▾
Sales User.	Item Layout ▾
Silver Partner User	Item Layout ▾
Solution Manager	Item Layout ▾
Standard Platform User	Item Layout ▾
Standard User	Item Layout ▾
Support User	Item Layout ▾
Support User.	Item Layout ▾
System Administrator	Item Layout ▾
Work.com Only User	Item Layout ▾
Worker	Page layout for Gold ▾

[Activity 2:Create another Record Type with name “Silver” following the steps from Activity1.](#)
Note: Use page layout for Silver.

Permission sets

A standard permission set consists of a group of common permissions for a particular feature associated with a permission set licence. Using a standard permission set saves you time and facilitates administration because you don't need to create the custom permission set.

Creating permission set

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. Users can have only one profile but, depending on the Salesforce edition, they can have multiple permission sets.

1. Go to setup >> type “permission sets” in quick search >> select permission sets >> New.

The screenshot shows the Salesforce Setup interface. The top navigation bar includes 'Setup', 'Home', and a search bar labeled 'Search Setup'. Below the search bar is a global search bar with the placeholder ' Didn't find what you're looking for? Try using Global Search.' On the left, there's a sidebar with 'Users' and 'Permission Sets' sections, both of which are highlighted with red boxes. The main content area is titled 'Permission Sets' and contains a table of existing permission sets. The first row in the table has a red box around the 'New' button.

2. Enter the label name as “Per to Worker”, API will be auto populated ? save.

The screenshot shows the 'Clone: Per to Worker' permission set creation screen. At the top, it says 'Clone: Per to Worker'. Below that, it says 'Enter a new label and description for the cloned permission set.' There are fields for 'Label' (containing 'Per to Worker') and 'API Name' (containing 'Per_to_Worker'), both of which are highlighted with red boxes. There are also fields for 'Description', 'Session Activation Required', and 'License'. At the bottom right, there are 'Save' and 'Cancel' buttons, with the 'Save' button highlighted with a red box.

- 3.Under Apps Select object settings.

Apps

Assigned Apps Settings that specify which apps are visible in the app menu
Assigned Connected Apps Settings that specify which connected apps are visible in the app menu
Object Settings Permissions to access objects and fields, and settings such as tab availability
App Permissions Permissions to perform app-specific actions, such as "Manage Call Centers"
Apex Class Access Permissions to execute Apex classes
Visualforce Page Access Permissions to execute Visualforce pages
External Data Source Access Permissions to authenticate against external data sources
Flow Access Permissions to execute Flows
Named Credential Access Permissions to authenticate against named credentials
Custom Permissions Permissions to access custom processes and apps
Custom Metadata Types Permissions to access custom metadata types
Custom Setting Definitions Permissions to access custom settings

- 4.Click on Items object ? click on Edit ? underItem:Record Type
Assignments,enableGold,Silver ? Object permission check for read ,edit and create.

Permission Set Overview > Object Settings > Items

Save | Cancel

Record Types	Assigned Record Types
Gold	<input checked="" type="checkbox"/>
Silver	<input checked="" type="checkbox"/>

Permission Name	Enabled
Read	<input checked="" type="checkbox"/>
Create	<input checked="" type="checkbox"/>
Edit	<input checked="" type="checkbox"/>
Delete	<input type="checkbox"/>
View All	<input type="checkbox"/>
Modify All	<input type="checkbox"/>

0. Click on Save.
0. After saving the permission click on the Manage assignment
0. Now click on the Add Assignment.

Select Users to Assign

All Users ▾

Full Name ↑	Alias	Username	Role	Acti...	Profile
Chatter Expert	Chatter	chatty.00d5i000003ksyzea4.i4i5wtjeybt4@chatter.salesforce.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chatter Free User
Integration User	integ	integration@00d5i000003ksyzea4.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Integration User
Mani deepak	mdeep	manideepak143@gmail.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Worker
Megha Katoju Site Guest User	guest	megha_katoju@00d5i000003ksyzea4.org.force.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Megha Katoju Profile
Meghana Katoj Site Guest User	guest	meghana_katoj@00d5i000003ksyzea4.org.force.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Meghana Katoj Profile

Cancel Next

8.Now select the users which you have created in user milestone, using Worker profile and click on Next ? Assign? Done.

Select an Expiration Option For Assigned Users

No expiration date

Specify the expiration date

1 Day 1 Week 30 Days 60 Days Custom Date

Time Zone Select a time zone...

Selected Users

Full Name	Role	Profile	Active	User License	Expires On
Mani deepak	Worker	Worker	<input checked="" type="checkbox"/>	Salesforce Platform	Never Expires

Cancel Back Assign

Trigger

Use Case:

Trigger and Trigger handler is designed to handle scenarios where we used to update the "Paid Amount" field on a custom object called "Billing" based on the value in a field named "Paying Amount" during both record insertion and update operations. It Calculates and updates the "Paid Amount" field based on the existing "Paid Amount" and the new "Paying Amount" during record updates.This approach ensures that the "Paid Amount" accurately reflects the payments made by customers and provides a history of changes to the "Paid Amount" over time. **Trigger :**

A trigger is a piece of Apex code that automatically runs before or after specific events, like record insertion, update, or deletion. Triggers are used to customise and automate actions in response to these events.

Create a Trigger Handler class

Trigger handler:

A trigger handler is a design pattern that organises trigger logic into separate classes. This helps in keeping code organised, reusable, and easier to maintain. The trigger handler class contains methods that handle the specific logic for different trigger events, improving code structure and readability. This approach is particularly useful for complex triggers or projects with multiple triggers, as it promotes modular coding practices and reduces the chances of code duplication.

CODE:

```
public class UpdatePaidAmountTriggerHandler {    public static void  
handleBeforeInsert(List<Billing__c>newBillings) {        for  
(Billing__c billing : newBillings) {            billing.Paid_Amount__c =  
billing.Paying_Amount__c;  
        }  
    }  
  
    public static void handleBeforeUpdate(Map<Id, Billing__c>oldBillingsMap,  
List<Billing__c>updatedBillings) {  
        for (Billing__c billing : updatedBillings) {  
            Billing__c oldBilling = oldBillingsMap.get(billing.Id);  
            Decimal oldPaidAmount = oldBilling.Paid_Amount__c;  
            billing.Paid_Amount__c = oldPaidAmount + billing.Paying_Amount__c;  
        }  
    }  
}
```

Create the trigger

CODE:

```
triggerUpdatePaidAmountTrigger on Billing__c (before insert, before update) {  
if (Trigger.isInsert) {  
    UpdatePaidAmountTriggerHandler.handleBeforeInsert(Trigger.new);  
} else if (Trigger.isUpdate) {  
    UpdatePaidAmountTriggerHandler.handleBeforeUpdate(Trigger.oldMap, Trigger.new);  
}
```

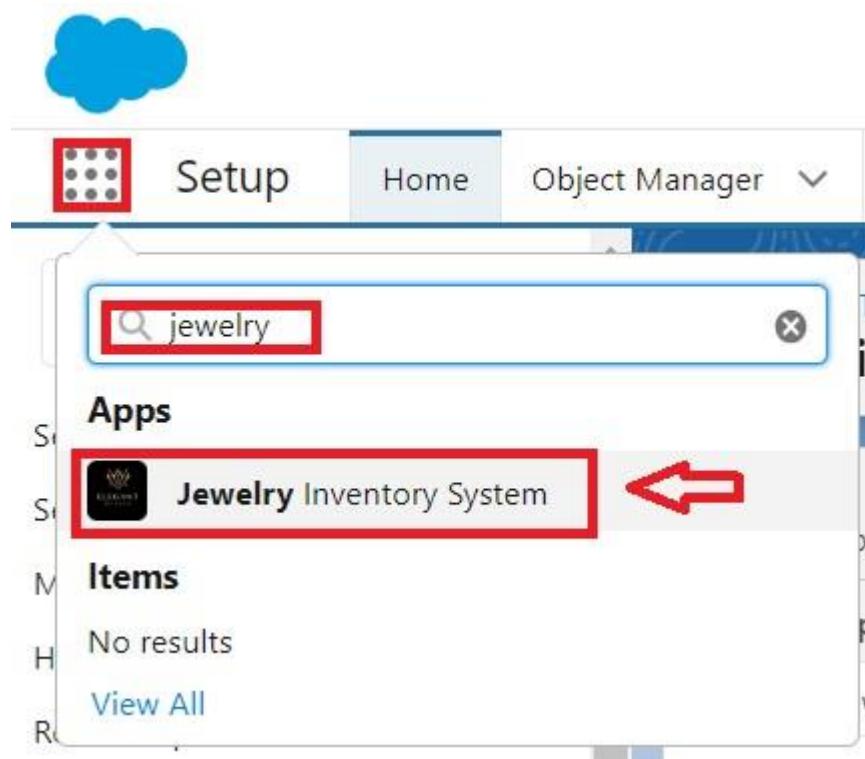
User Adoption

Use Case:

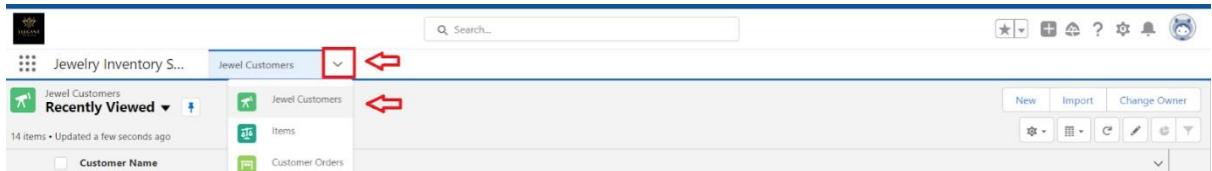
As a new Administrator, you perform user management tasks like creating and editing users, resetting passwords, granting permissions, configuring data access, and much more. In this unit, you will learn about users and how you add users to your Salesforce org.

Create a Record (Jewel Customer)

1. Click on App Launcher on the left side of the screen.
2. Search Jewelry Inventory System & click on it.



3. Click on Drop Down and Click on the Jewel Customer tab.
4. Click New.



5. Fill the Details and click on Save.

View a Record (Jewel Customer)

1. Click on App Launcher on the left side of the screen.

2. Search Jewelry Inventory System & click on it.
3. Click on the Jewel Customer Tab.
4. Click on any record name. you can see the details of the Jewel Customer.

Delete a Record(Jewel Customer)

1. Click on App Launcher on the left side of the screen.
2. Search Jewelry Inventory System & click on it.
3. Click on the Jewel Customer Tab.
4. Click on Arrow at right hand side on that Particular record.
5. Click delete.

Note:Create at least 10 records for each of the objects: Jewel Customer,Price,Item,Customer Order and Billing.

Reports

Reports give you access to your Salesforce data. You can examine your Salesforce data in almost infinite combinations, display it in easy-to-understand formats, and share the resulting insights with others. Before building, reading, and sharing reports, review these reporting basics.

Types of Reports in Salesforce

1. Tabular
2. Summary
3. Matrix
4. Joined Reports

Use Case:

The GoldSmith of an organisation wants to have a brief data on Gold Items,SilverItems,Customer Orders and Billings. So he can have a clear picture of his organisation and be able to make any decisions required based on this data. So he calls you on this task and wants you to represent the data in an appropriate way.

Let's create a Report.

Create Report

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

The screenshot shows the Jewelry Inventory Software interface. The top navigation bar has a search bar and various icons. The main area is titled 'Jewelry Inventory S...'. On the left, there's a sidebar with sections for 'Recent', 'REPORTS' (with 'Recent' selected), 'FOLDERS', and 'FAVORITES'. Under 'REPORTS', there are several report categories like 'Jewel Customers', 'Items', 'Customer Orders', 'Prices', 'Billings', and 'Reports'. A red box highlights the 'Reports' category. The right side shows a table of reports with columns for 'Folder', 'Created By', 'Created On', and 'Subscribed'. A red box highlights the 'Reports' button in the table header.

3. Select report type from category or from report type panel or from search panel ? click on start report.

The screenshot shows the 'Create Report' dialog box. It has a search bar at the top with the word 'PRICE'. Below it, there's a list of report types: 'Price Books with Products', 'Items with Prices', and 'Prices'. A red box highlights the 'All' button in the 'Category' section. Two red arrows point to the search bar and the 'Prices' report type in the list.

4. Customise your report

The screenshot shows the 'Report Builder' interface for a 'Prices' report. The top navigation bar includes 'Jewelry Inventory S...', 'Prices', 'Report Builder', and a 'Run' button. The main area has sections for 'Fields', 'Outline', and 'Filters'. In the 'Fields' section, there are 'Groups' (with 'GROUP ROWS' selected) and 'Columns' (with 'Add column...' highlighted). The 'Outline' section shows a list of items. A red box highlights the 'Add column...' button in the 'Columns' section. Another red box highlights the 'Run' button in the top right corner.

- Add fields from the left pane as shown below.

5. Save or run it.

	Price: Price	Gold price	Silver price
1	p-022	₹60,000.00000	₹71,000.00000
2	p-021	₹63,000.00000	₹72,000.00000
3	p-027	₹62,350.00000	₹70,200.00000
4	p-029	₹58,700.00000	₹69,000.00000
5	p-030	₹66,000.00000	₹78,000.00000
6	p-026	₹62,000.00000	₹70,000.00000
7	p-025	₹58,000.00000	₹69,000.00000
8	p-028	₹59,900.00000	₹73,000.00000
9	p-024	₹62,000.00000	₹73,000.00000
10	p-023	₹58,000.00000	₹69,000.00000
11		₹609,950.00000	₹714,200.00000

Note: Reports may get varied from the above pictures as the data might be different.

Reports

- 1.Create a report with report type: “Item with Billings”.
- 2.Create a report with report type: “Billings with item and Customer order”.

Dashboards

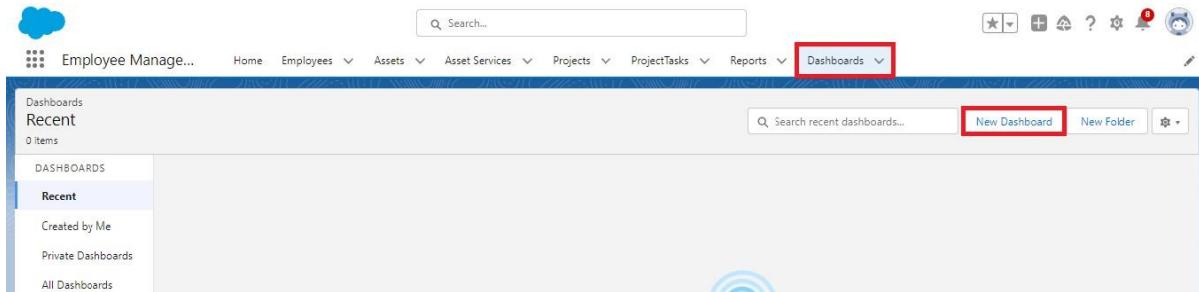
Dashboards help you visually understand changing business conditions so you can make decisions based on the real-time data you've gathered with reports. Use dashboards to help users identify trends, sort out quantities, and measure the impact of their activities. Before building, reading, and sharing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

Use Case:

As an Admin for the organisation you keep pushing yourself to reach out the business requirements to take the organisation to peak heights and all your superiors are very much impressed with your efforts and work dedication. In addition with reports you make an ease for the GoldSmith in viewing the reports with data visualisation. So he doesn't have to search for the data he wants to check.

Create Dashboard

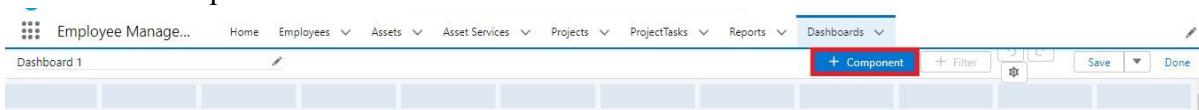
- 1.Go to the app >> click on the Dashboards tabs.



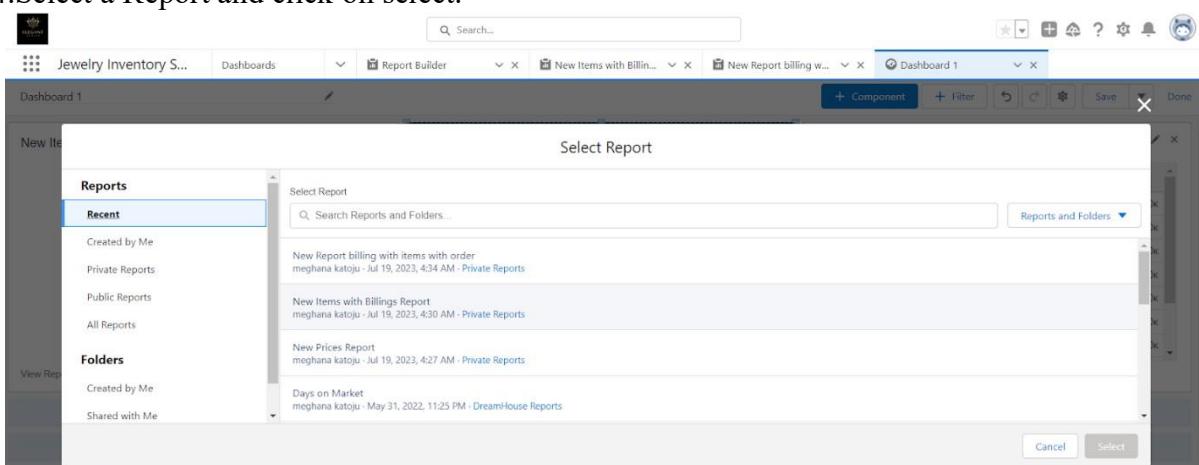
2. Give a Name and click on Create.

A screenshot of the 'New Dashboard' creation form. It has fields for 'Name' (containing 'Dashboard 1'), 'Description' (empty), 'Folder' (set to 'Private Dashboards'), and a 'Select Folder' button. At the bottom right are 'Cancel' and 'Create' buttons, with 'Create' being highlighted with a red box.

3. Select add component.

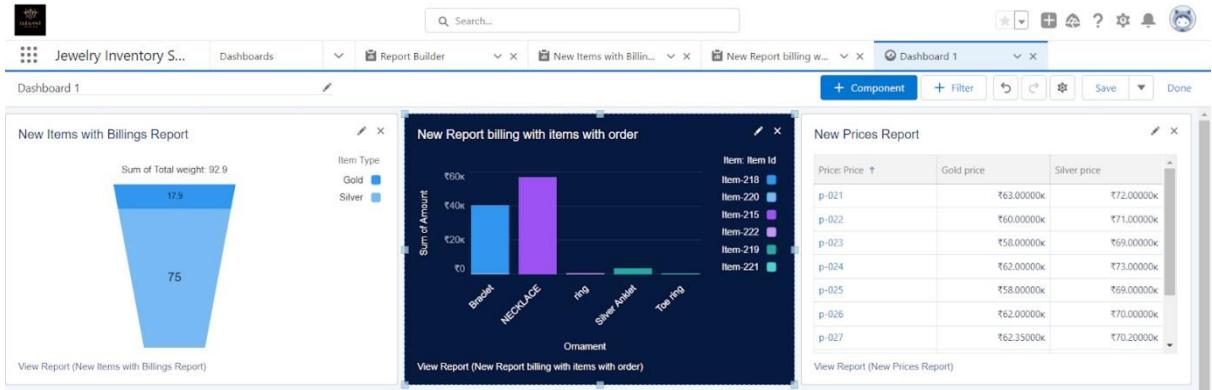


4. Select a Report and click on select.



5. Click Add then click on Save and then click on Done.

Activity 2: Create another Dashboard as we discussed in activity 1.



Flows

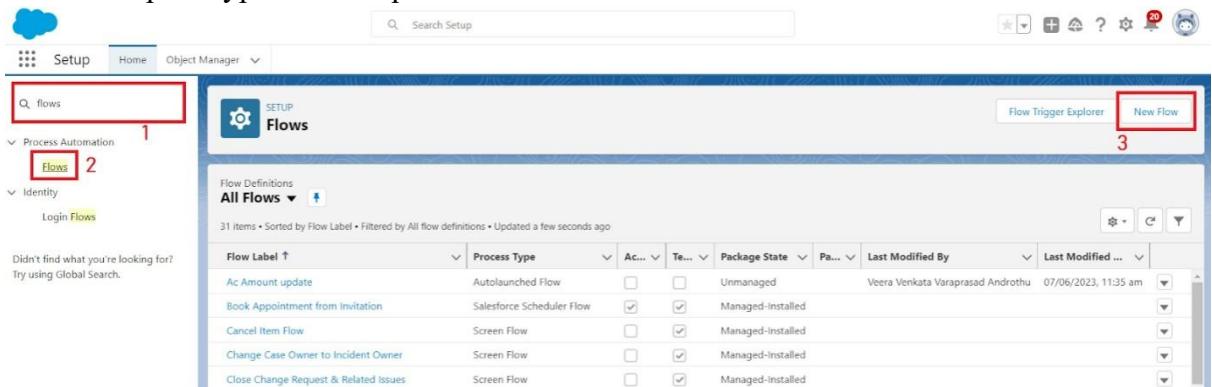
In Salesforce, a flow is a powerful tool that allows you to automate business processes, collect and update data, and guide users through a series of screens or steps. Flows are built using a visual interface and can be created without any coding knowledge.

Use Case:

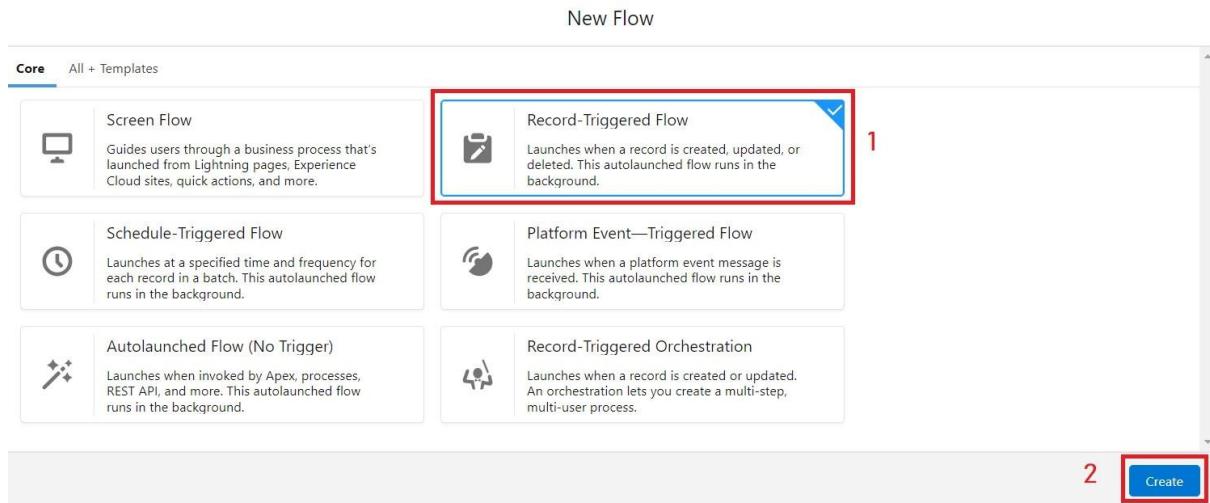
Flows, also known as Salesforce Flows or Visual Flows, are powerful declarative automation tools in Salesforce that allow users to create and manage complex business processes without the need for code. Flows are designed using a drag-and-drop interface, making them easy to use for both administrators and developers. They can be used for various automation tasks like email triggers including data entry, record updates, and guided user interactions.

Create a Flow

1. Go to setup >> type Flow in quick find box >> Click on the Flow and Select the New Flow.



2. Select the Record-triggered flow and Click on Create.



3. Select the Object as a “Billing” in the Drop down list.
4. Select the Trigger Flow when: “A record is Created or Updated”.
5. Select the Optimise the flow for: “Actions and Related Records” and Click on Done.

Configure Start

Select Object

Select the object whose records trigger the flow when they're created, updated, or deleted.

* Object
Item

Configure Trigger

* Trigger the Flow When:

- A record is created
- A record is updated
- A record is created or updated
- A record is deleted

Set Entry Conditions

Specify entry conditions to reduce the number of records that trigger the flow and the number of times the flow is executed. Minimizing unnecessary flow executions helps to conserve your org's resources.

If you create a flow that's triggered when a record is updated, we recommend first defining entry conditions. Then select the **Only when a record is updated to meet the condition requirements** option for When to Run the Flow for Updated Records.

Condition Requirements

Cancel Done

6. Now change the mode from Auto-layout to free-form.
7. Now select the manger option in the toolbox, click New resource.
8. Select the resource type as text template.

The screenshot displays two overlapping Salesforce Flow Builder dialogs.

Configure Start Dialog:

- Select Object:** The object selected is "Billing".
- Configure Trigger:** The trigger selected is "A record is created or updated".
- Set Entry Conditions:** A note states: "If you create a flow that's triggered when a record is updated, we recommend first defining entry conditions. Then select the **Only when a record is updated to meet the condition requirements** option for When to Run the Flow for Updated Records."
- Buttons:** "Cancel" and "Done" (highlighted with a red box).

New Resource Dialog:

- *Resource Type:** A dropdown menu is open, showing the following options:
 - Variable
 - Constant
 - Formula
 - Text Template** (highlighted with a red box)
 - Stage
- Buttons:** "Select..." and a dropdown arrow.

9.Enter the API name as “ Email body”.

Edit Text Template

* API Name
EmailBody

Description

* Body ⓘ

Insert a resource...

Hello
Customer Name: {!\$Record.Item__r.Customer_Name__r.Name}

10. Change the view as Rich Text ? View to Plain Text.

11. In the body field paste the syntax that is given below.

Hello

Customer Name: {!\$Record.Item__r.Customer_Name__r.Name}

Here are the details for the item you purchased with Jewellery Inventory System

Item Type: {!\$Record.Item__r.Item_Type__c}

Ornament: {!\$Record.Ornament__c}

Weight: {!\$Record.Weight__c} grams

Amount: {!\$Record.Amount__c}

12. Click done.

13. Now click on elements, and drag the action element into the preview pane.

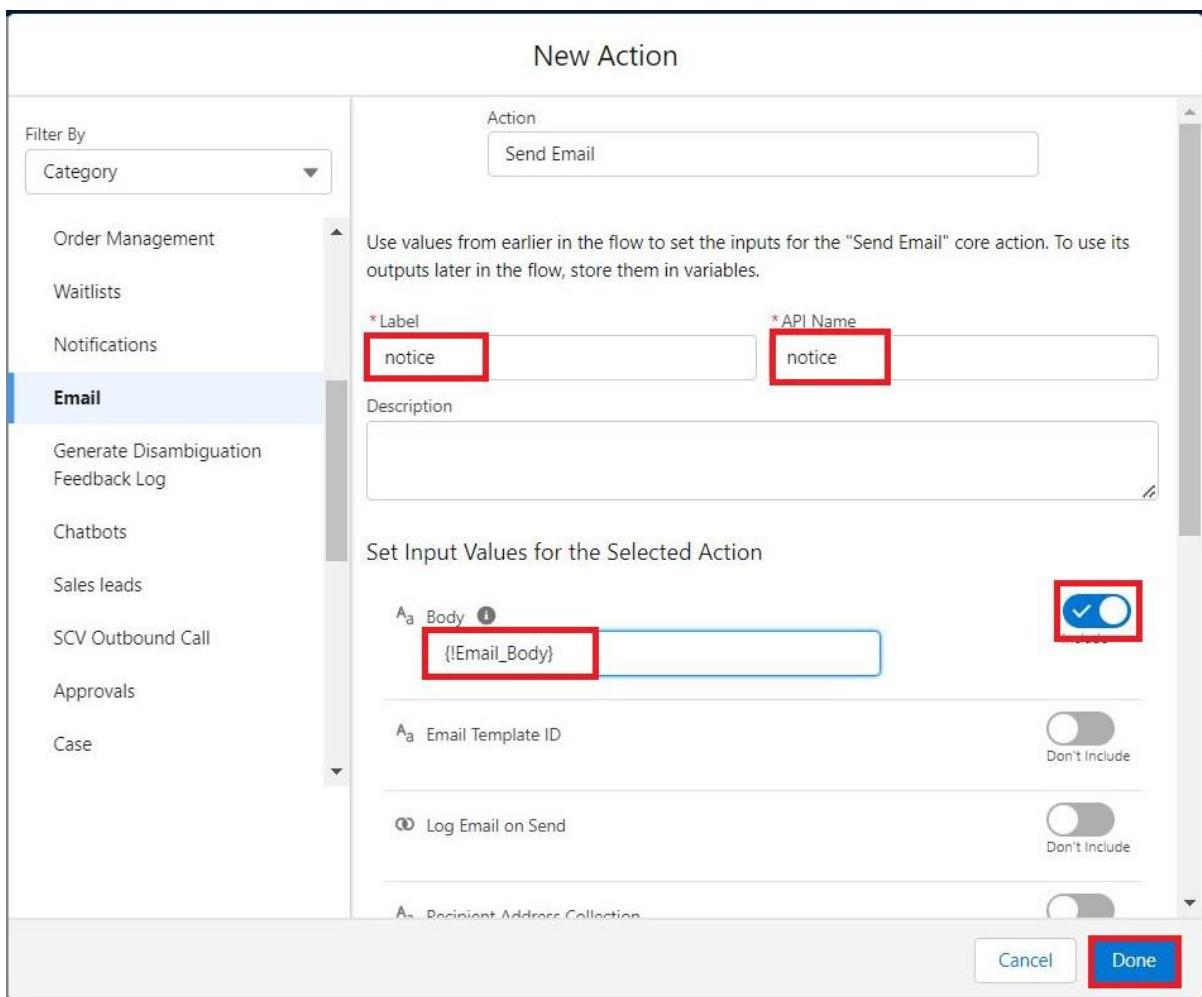
14. Their action bar will be opened in that search for “ send email ” and click on it.

15. Give the label name as “ notice ”

16. API name will be auto populated.

17. Enable the body in set input values for the selected action.

18. Select the text template that was created.

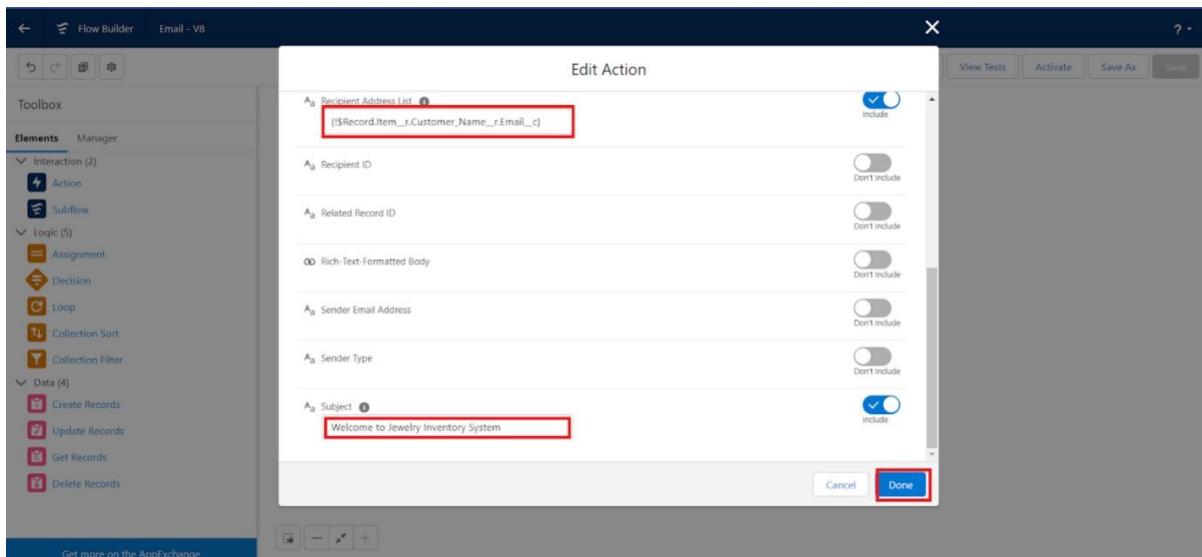


19. Include Recipient Address list, select the email from the record.

({\$Record.Item_r.Customer_Namer.Email_c})

20. Include the subject as “Welcome to Jewelry Inventory System ”.

21. Click done.



22. Now drag the path from the start to the action element.

23. Click on save. Given the Flow label , Flow Api name will be auto populated.

24.And click save, and click on activate.

