

CRM Application for Jewel Management - (Developer)

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INTRODUCTION

Project Overview

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

Creating Developer Account

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
1. On the sign up form, enter the following details : 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.
2. Click on Reset Password
3. Give a password and answer a security question and click on change password.
4. Then you will redirect to your salesforce setup page.

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:

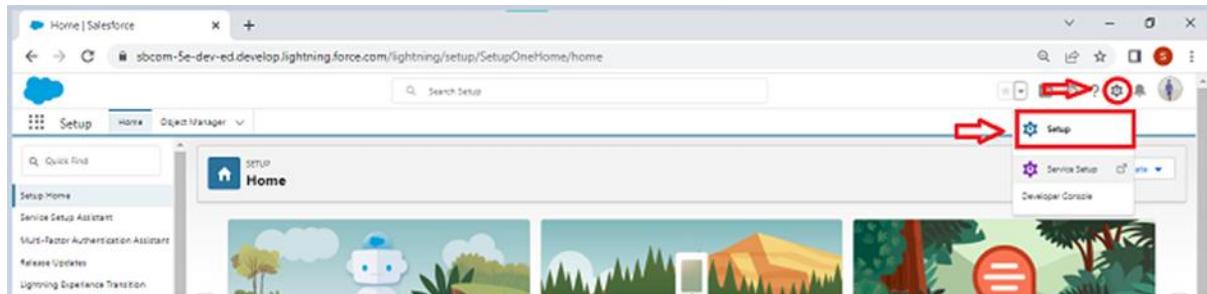
1. Standard Objects: Standard objects are the kind of objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.
2. Custom Objects: Custom objects are those objects that are created by users. They supply information that is unique and essential to their organization. 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

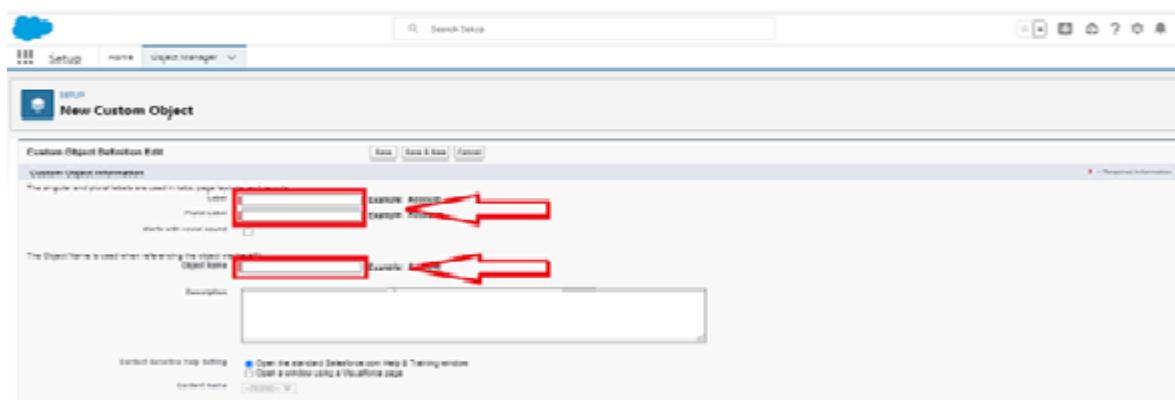
The purpose of creating a Jewel Customer custom object is to store and manage information about Customer.

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



3. Enter Record Name Label and Format

- Record Name >> Customer name

- Data Type >> Text

The screenshot shows the 'Enter Record Name Label and Format' step of the object creation wizard. The 'Record Name' field contains 'Customer' and the 'Example' field shows 'Account Name'. The 'Data Type' is set to 'Text'. Below this, the 'Optional Features' section includes checked boxes for 'Allow Reports' and 'Allow Bulk API Access', while others like 'Allow Activities' and 'Allow Streaming API Access' are unchecked. The 'Object Classification' section indicates the object is an Enterprise Application object. In the 'Deployment Status' section, the 'Deployed' radio button is selected.

2. Click on Allow reports.
3. 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
2. Click on Allow reports.
3. 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.

2. 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.

3. 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.

4. Lightning Component Tabs

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

5. 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)



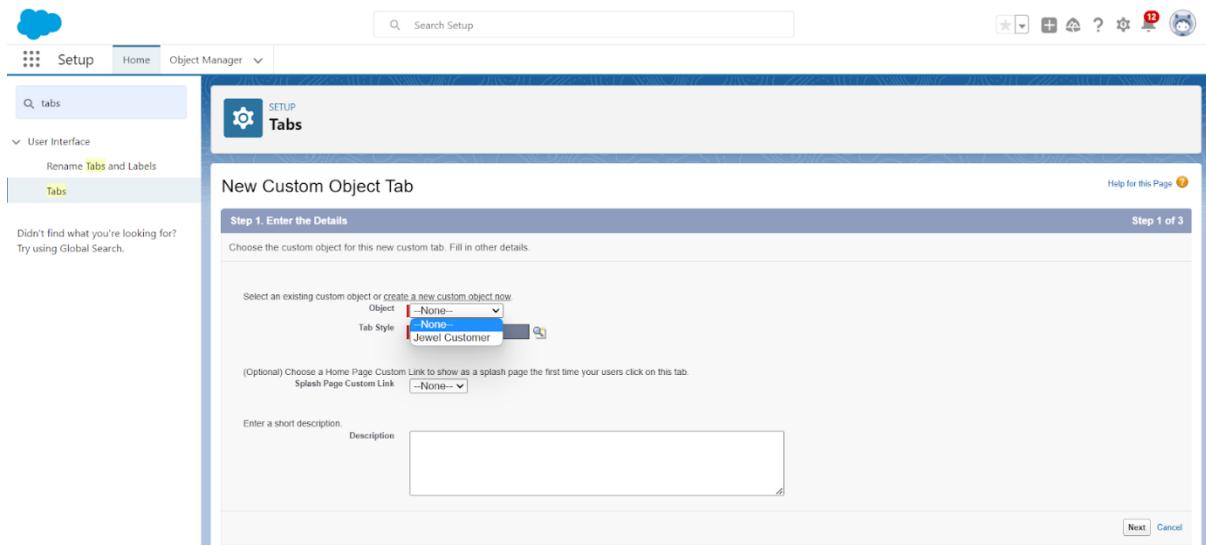
Custom Tabs

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. You can also allow users to add Lightning Pages to Lightning Experience and the mobile app.

Custom Object Tabs	New	What Is This?
No Custom Object Tabs have been defined		
Web Tabs	New	What Is This?
No Web Tabs have been defined		

2. 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's a search bar and a navigation bar with tabs like Setup, Home, Object Manager, and a search field. Below the search bar, there are two red boxes: one around the 'app manager' search term and another around the 'Cloud Apps(Beta)' link. In the center, there's a section titled 'Lightning Experience App Manager' with a sub-section 'Quickly create new Lightning apps by cloning existing apps...'. A red arrow points to the 'New Lightning App' button at the top right of this section. The main area is a table listing various apps, with a red arrow pointing to the first row of the table.

3. 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.

The screenshot shows the 'New Lightning App' configuration page. On the left, there's a sidebar with categories like Sales, Data, Apps, and Lightning. The 'Apps' section is expanded, showing sub-categories like App, Connected, and Lightning. The main area has two tabs: 'App Details' and 'App Branding'. In 'App Details', the 'App Name' is set to 'Jewellery Inventory System', 'Developer Name' is set to 'Jewelry_Inventory_System', and 'Description' is 'Elevate your look with elegance'. In 'App Branding', there's a 'Primary Color Hex Value' field with '#0070D2' selected. Below it is an 'Org Theme Options' checkbox. At the bottom, there's an 'App Launcher Preview' section showing a preview of the app icon and name. A 'Next' button is visible at the bottom right.

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

App Options

Navigation Style

- Standard navigation
- Console navigation**

Supported Form Factors

- Desktop and phone
- Desktop
- Phone

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

5. To Add Navigation Items:

Navigation Items

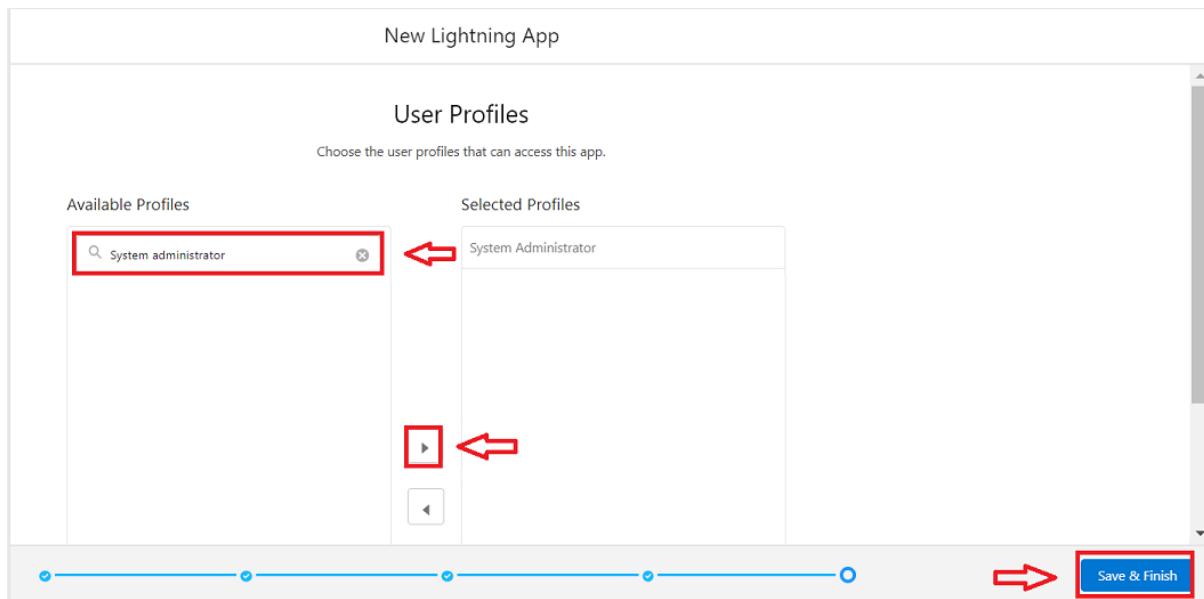
Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.

Available Items

Selected Items

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.

6. 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.



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

3. Select Data type as “Text”.

<input type="radio"/> Picklist	Allows users to select a value from a list you define.
<input type="radio"/> Picklist (Multi-Select)	Allows users to select multiple values from a list you define.
<input checked="" type="radio"/> Text	Allows users to enter any combination of letters and numbers.
<input type="radio"/> Text Area	Allows users to enter up to 255 characters on separate lines.
<input type="radio"/> Text Area (Long)	Allows users to enter up to 131,072 characters on separate lines.

4. Click on Next

5. Fill the above as following:

- Field Label: City
- Length : 20
- Field Name : gets auto generated
- 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.

- Given the Field Label as “ Phone”.

The screenshot shows the Salesforce setup interface for creating a new custom field. The object is 'Jewel Customer'. The field label is 'Phone' and the field name is also 'Phone'. The 'Required' checkbox is unchecked. The 'Add this field to existing custom report types that contain this entry' checkbox is checked. The 'Step 2 of 4' button is visible at the top right.

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

Creating the Email field in object Jewel Customer

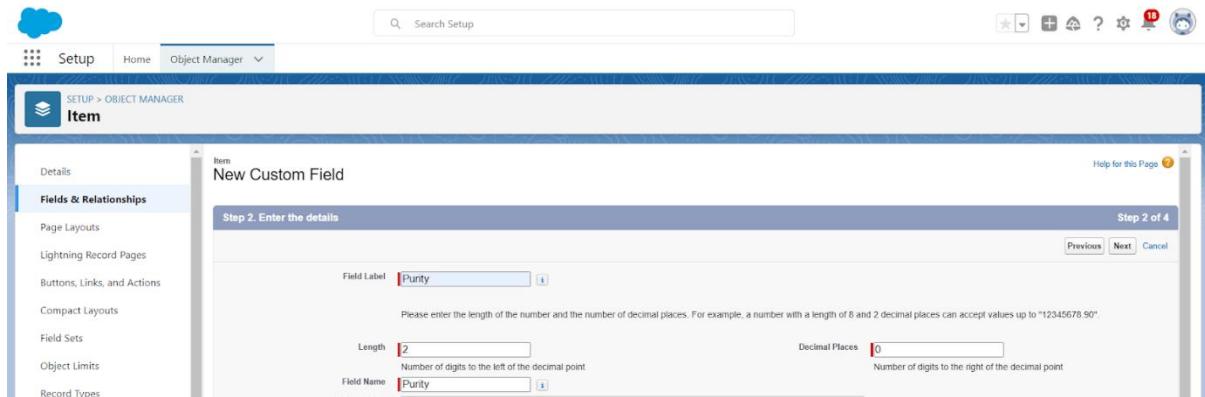
To create fields in an object:

- 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 ”.

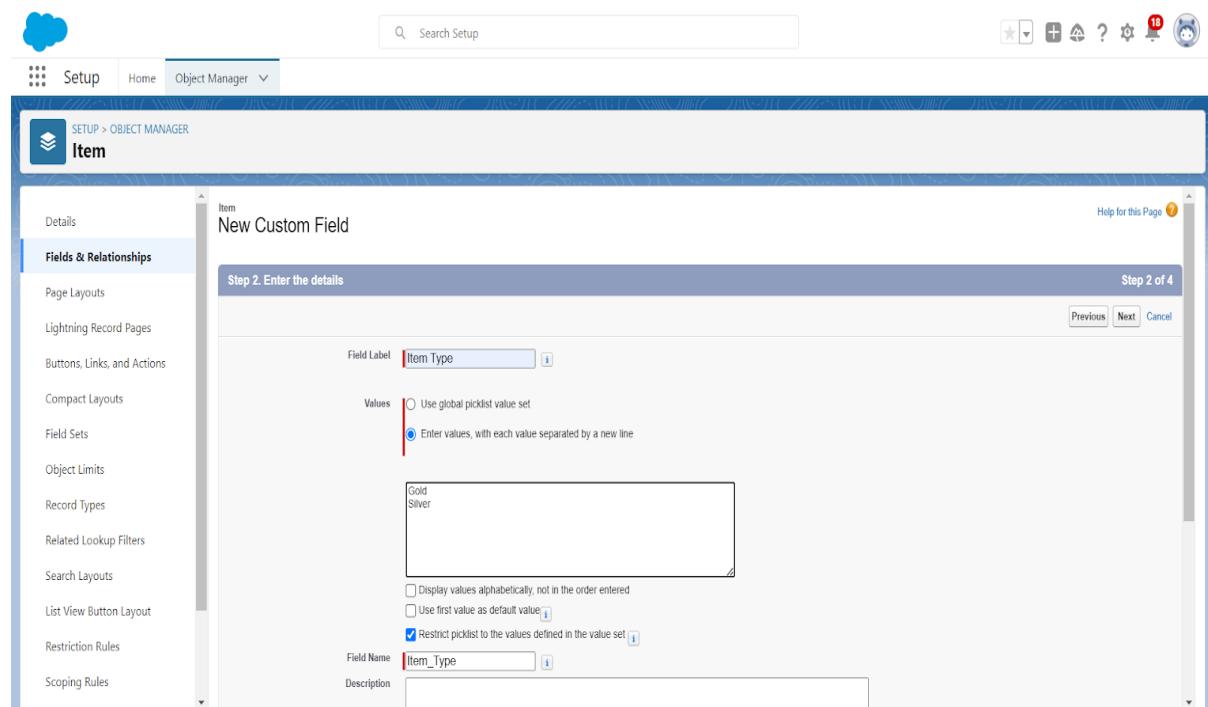


5. Field Name will be auto populated, and click on Next > Next > Save.

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.

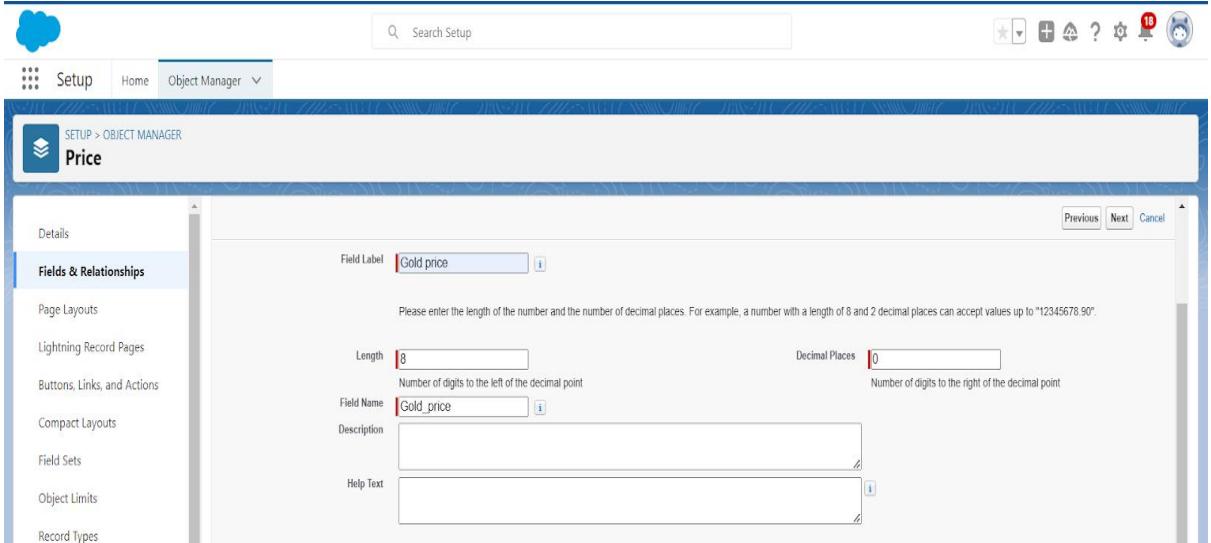


6. Click Next? Next ? Next ? Save .

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.



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

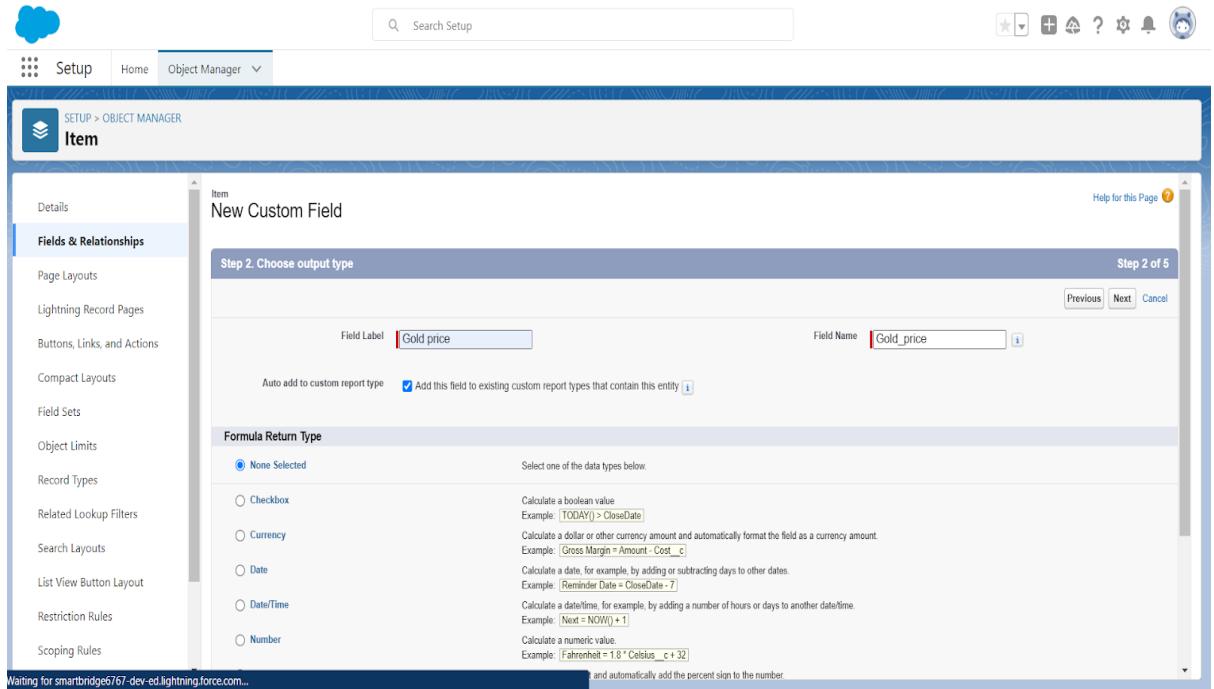
Creating Formula Field(Cross Object) in Item Object

To create fields in an object:

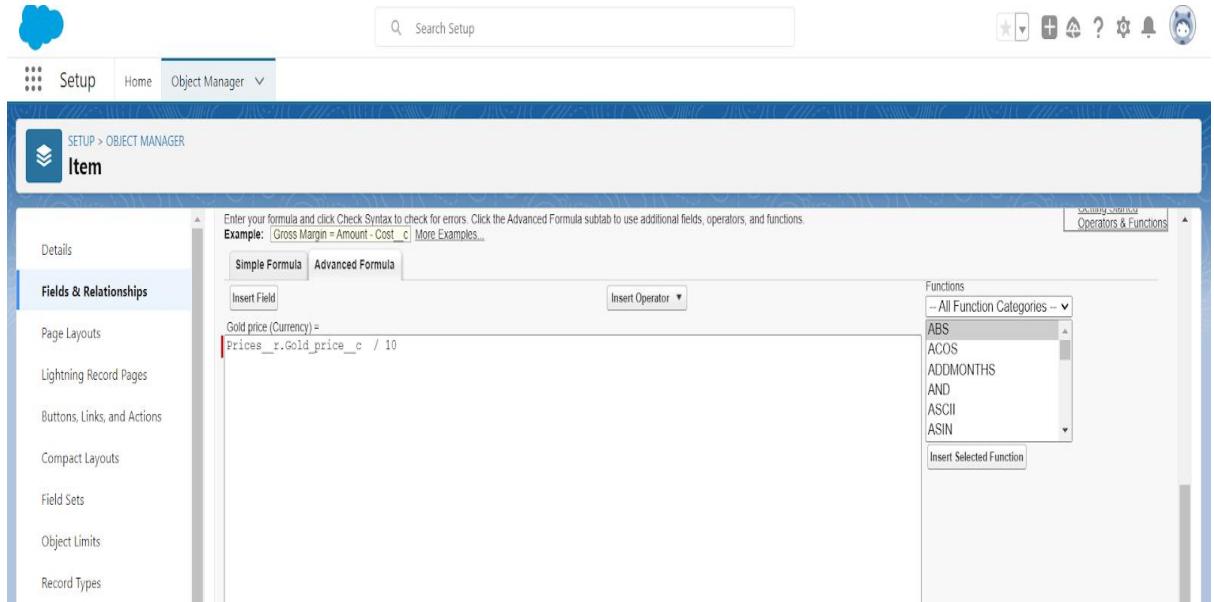
(Note:Create a Lookup Relationship in Item Object to Price Object with Field Name:Prices)

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.



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



6. click “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		
		Silver Price	Currency (Length=8,Decimal=5)

3	Item		
		Field Label:Customer Name	Lookup Relationship with Jewel Customer Object

		Orname nt	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: 10px; margin-top: 10px;"> 1-3 Days 4-5 Days 6-7 Days 8-10 Days </div>
		Priority	Picklist <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> Low Medium High Critical </div>

		Silver Price	Formula (Return Type:Number) (Decimal=3)
			<div style="border: 1px solid black; padding: 10px; text-align: center;">(Prices_r.Silver_price_c / 1000)</div>
		Purity Gold Price	Formula (Return Type:Currency) (Decimal=2)
			<div style="border: 1px solid black; padding: 10px; text-align: center;">((Prices_r.Gold_price_c * Purity_c) / 24) / 10</div>
		Total Weight	Formula (Return Type:Number) (Decimal=3)
			<div style="border: 1px solid black; padding: 10px; text-align: center;">(Weight_c - Stone_weight_c)</div>
		Amount	Formula (Return Type:Currency) (Decimal=3)

		<pre>IF(ISPICKVAL(Item_Type__c , "Gold"), Total_weight__c * Purity_Gold_price__c , Total_weight__c * Silver_price__c)</pre>
	KDM	<p>Formula (Return Type:Currency) (Decimal=0)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content;"> $\frac{(\text{Amount_c} * \text{Percentage_c})}{100}$ </div>
	Making Charges	<p>Formula (Return Type:Currency) (Decimal=0)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content;"> $\text{IF}(\text{ISPICKVAL}(\text{Item_Type_c} , \text{"Gold"}), \text{Weight_c} * 300, \text{Weight_c} * 10)$ </div>

4	Customer Order			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Order Status</td> <td style="padding: 5px;">Picklist</td> </tr> </table>	Order Status	Picklist
Order Status	Picklist			

			<ul style="list-style-type: none"> Started Not Started On Hold Completed Not Completed
--	--	--	---

		Now create the remaining fields using the data types mentioned.														
5	s.n o	<table border="1"> <thead> <tr> <th>Object name</th> <th>Fields</th> </tr> </thead> <tbody> <tr> <td>Jewel Customer</td> <td> <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> </td></tr> </tbody> </table>	Object name	Fields	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)
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Country	Text(18)															
Zip/Postal code	Text(6)															

2	Price	
	Silver Price	Currency (Length=8,Decimal=5)

3	Item	
	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	<p>Formula (Return Type:Number) (Decimal=3)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin-top: 10px;"> $(\text{Prices_r.Silver_price_c} / 1000)$ </div>
		Purity Gold Price	<p>Formula (Return Type:Currency) (Decimal=2)</p>

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

			$(Amount_c * Percentage_c) / 100$
		Making Charges	<p>Formula (Return Type:Currency) (Decimal=0)</p> $\text{IF(ISPICKVAL(}\text{Item_Type_c}\text{, "Gold")}, \text{Weight_c} * 300, \text{Weight_c} * 10)$

4	Customer Order	Order Status	Picklist
			<ul style="list-style-type: none"> Started Not Started On Hold Completed Not Completed

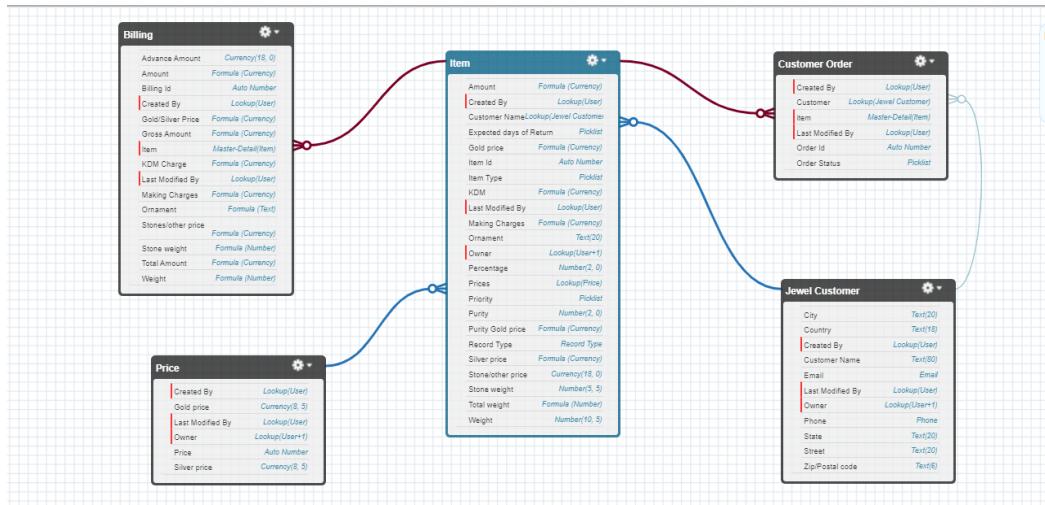
5	Bil ling	
	Field Label: Item	Lookup Relationship with Item Object
	Orna ment	<p>Formula (Return Type:Text)</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Item__r.Ornament__c</div>
	Sto ne weigh t	<p>Formula (Return Type:Number) (Decimal=2)</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Item__r.Stone_weight__c</div>
	Weight	<p>Formula Return Type:Number (Decimal=2)</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Item__r.Total_weight__c</div>
	Amou nt	Formula (Return Type:Currency)

		(Decimal=2)
		<p style="text-align: center;">Item__r.Amount__c</p>
	Gold/ Silver Price	<p>Formula (Return Type:Currency) (Decimal=2)</p> <pre>IF(ISPICKVAL(Item__r.Item_Type__c , "Gold"), Item__r.Gold_price__c , Item__r.Silver_price__c)</pre>
	KDM Charg e	<p>Formula (Return Type:Currency) (Decimal=0)</p> <p style="text-align: center;">Item__r.KDM__c</p>
	Makin g Charg es	<p>Formula (Return Type:Currency) (Decimal=2)</p> <p style="text-align: center;">Item__r.Making_Charges__c</p>
	Stone s/othe r price	<p>Formula (Return Type:Currency) (Decimal=2)</p> <p style="text-align: center;">Item__r.Stone_other_price__c</p>

		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.

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

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

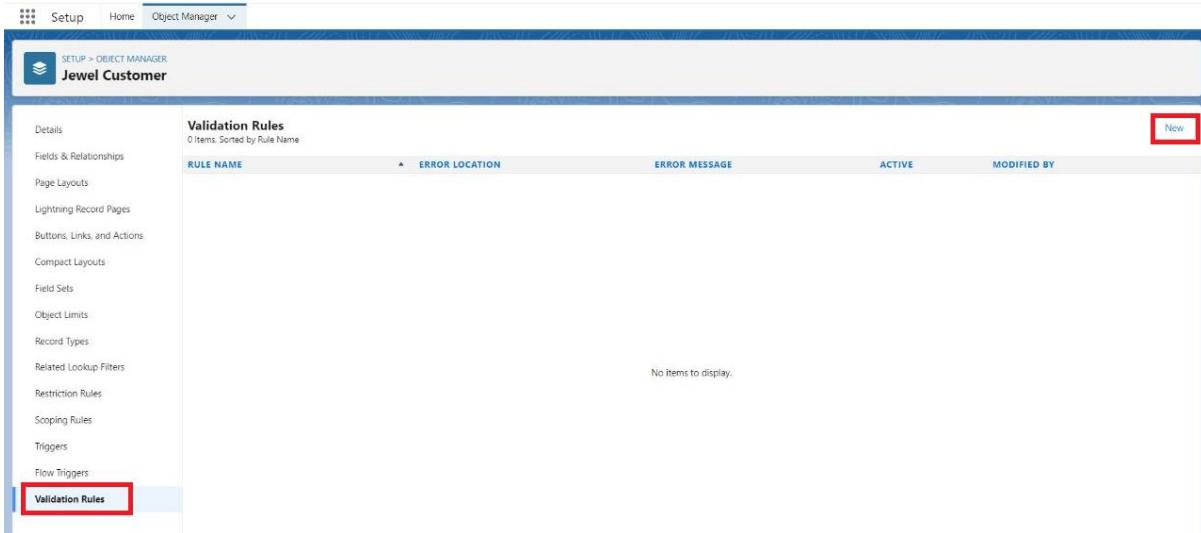
Priority:	Low	Medium	High	Critical
Expected days of Return:	1-3 Days 4-5 Days 6-7 Days 8-10 Days	1-3 Days 4-5 Days 6-7 Days 8-10 Days	1-3 Days 4-5 Days 6-7 Days 8-10 Days	1-3 Days 4-5 Days 6-7 Days 8-10 Days

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.



3. Enter the Rule name as “Postal Code “.
4. 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)))
)

The screenshot shows the 'Validation Rule Edit' screen for the 'Postal Code' rule. The 'Error Condition Formula' field contains the following code:

```

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

```

The 'Error Message' field contains the message 'Must contain 6 digits'. The 'Error Location' dropdown is set to 'Field' and 'Zip/Postal code'.

5. 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.

1. Enter Rule name as “ValidationRule For JewelCustomerObject “.
2. Insert the Error Condition Formula as : -
OR(ISBLANK(City__c), ISBLANK(Country__c),ISBLANK(Phone__c),ISBLANK(State__c),ISBLANK(Street__c))
3. 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.

1. Enter Rule name as “ValidationRule For Item“.
2. Insert the Error Condition Formula as : -
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.

2. Custom Profiles:

Custom ones defined by us.

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

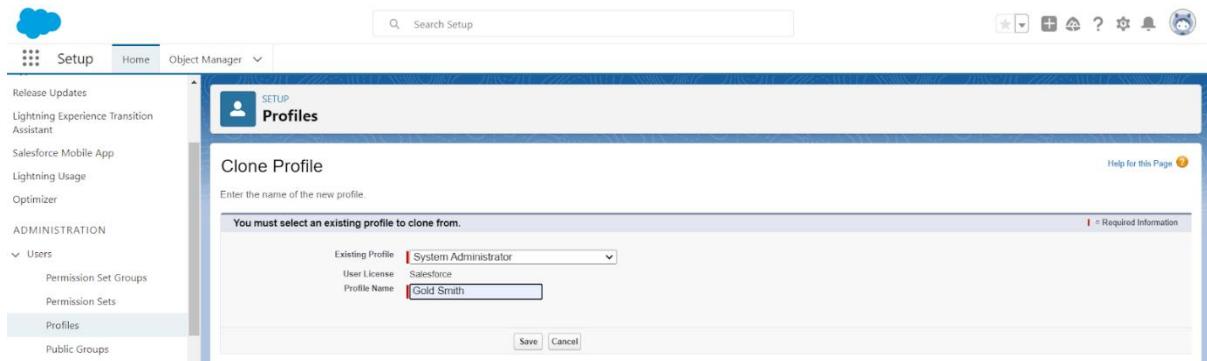
Use Case:

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

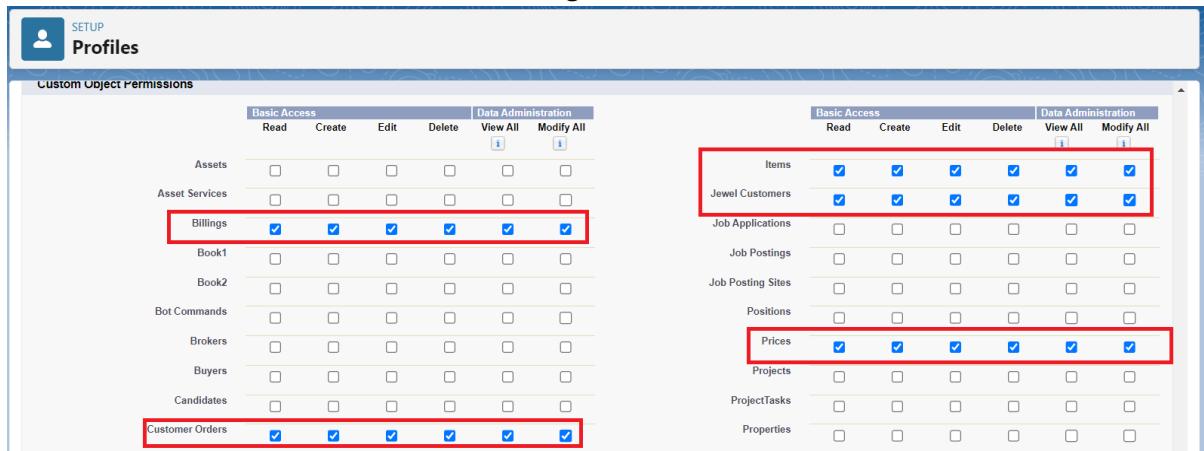
To create a new profile:

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.



2. While still on the profile page, then click Edit.

3. Scroll down to Custom Object Permissions and Give access permissions for Jewel Customer,Item,Customer Order,Prices,Billings .



4. 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

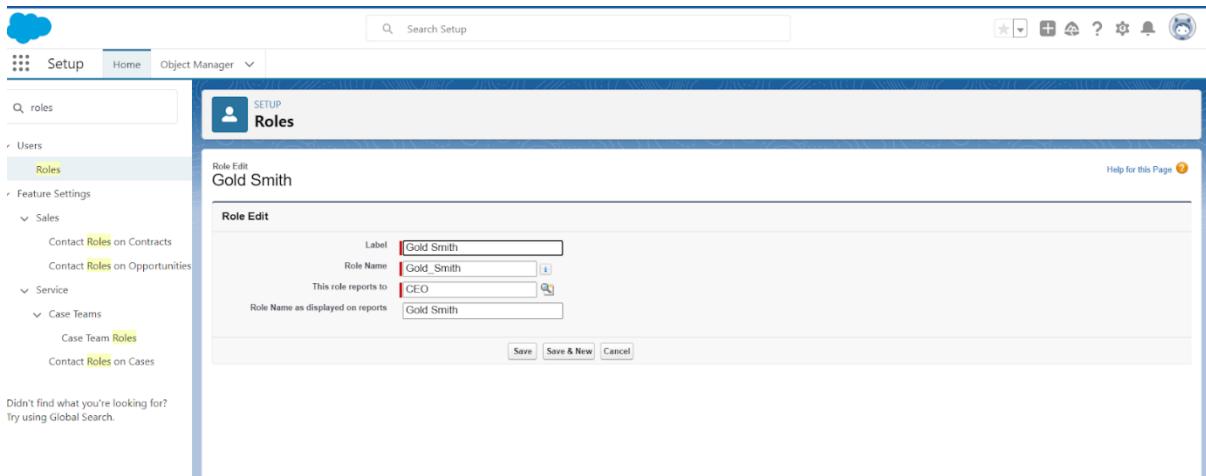
- From setup ,Go to quick find >> Search for Roles >> click on set up roles.

The screenshot shows the Salesforce Setup interface. In the top navigation bar, 'Setup' is selected. The left sidebar has a 'Users' section expanded, with 'Roles' highlighted by a red box. Below it, 'Feature Settings' is expanded, showing 'Sales' and 'Service' sections. Under 'Sales', 'Contact Roles on Contracts' and 'Contact Roles on Opportunities' are listed. Under 'Service', 'Case Teams' and 'Case Team Roles' are listed. At the bottom of the sidebar, there is a note: 'Didn't find what you're looking for? Try using Global Search.' The main content area is titled 'Understanding Roles' and contains a 'Sample Role Hierarchy' diagram. The hierarchy starts with 'Executive Staff' (CEO, President) at the top, followed by 'CFO, VP, Sales' (Eastern Sales Director, International Sales Director). Below them are 'Western Sales Director' (Western Sales Rep, CA Sales Rep, OR Sales Rep), 'Eastern Sales Rep' (NY Sales Rep, MA Sales Rep), and 'International Sales Rep' (Asian Sales Rep, European Sales Rep). Descriptions for each role level are provided. At the bottom right of the main content area is a 'Set Up Roles' button, also highlighted with a red box. There is also a 'Don't show this page again' checkbox.

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

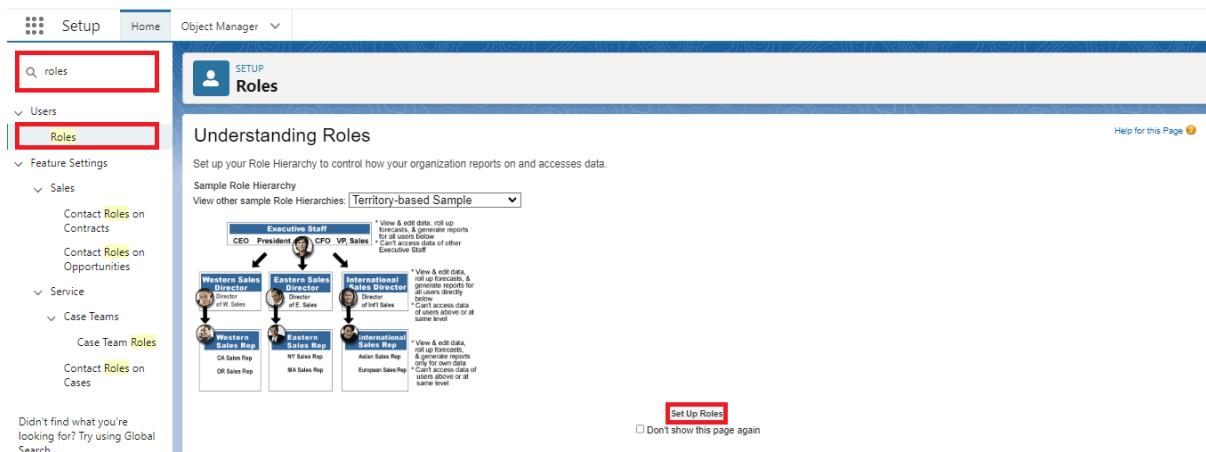
The screenshot shows the 'Your Organization's Role Hierarchy' page. At the top, there is a 'Collapse All' and 'Expand All' button, with 'Expand All' highlighted by a red box. The hierarchy tree starts with 'Nick Enterprises'. Under it are 'Add Role', 'CFO', 'HR', 'Manager', 'On Site Emp', and 'Remote Emp', each with 'Edit | Del | Assign' links. Under 'CFO', there is another 'Add Role' button highlighted with a red box. The 'Manager' node has its own 'Add Role' button. The 'On Site Emp' and 'Remote Emp' nodes also have their own 'Add Role' buttons. The entire page is enclosed in a light gray border.

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

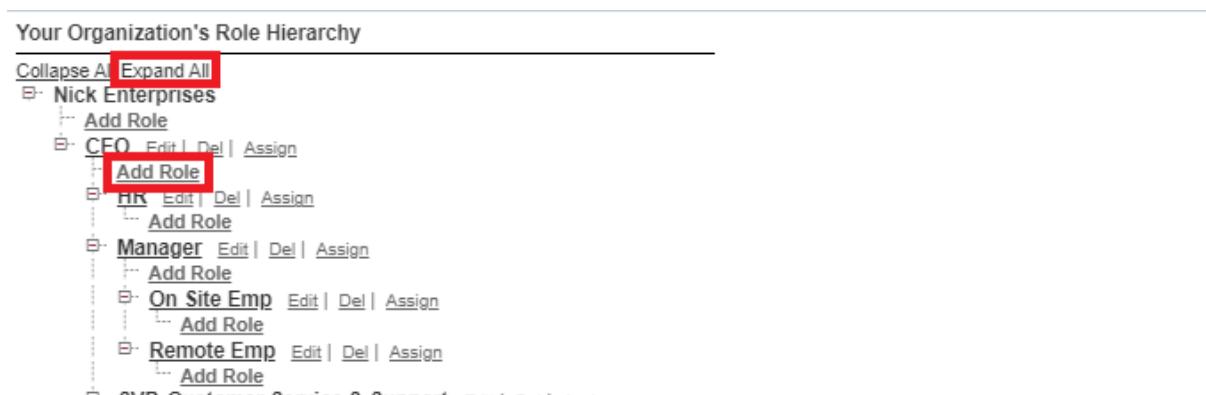


Creating Gold Smith Role

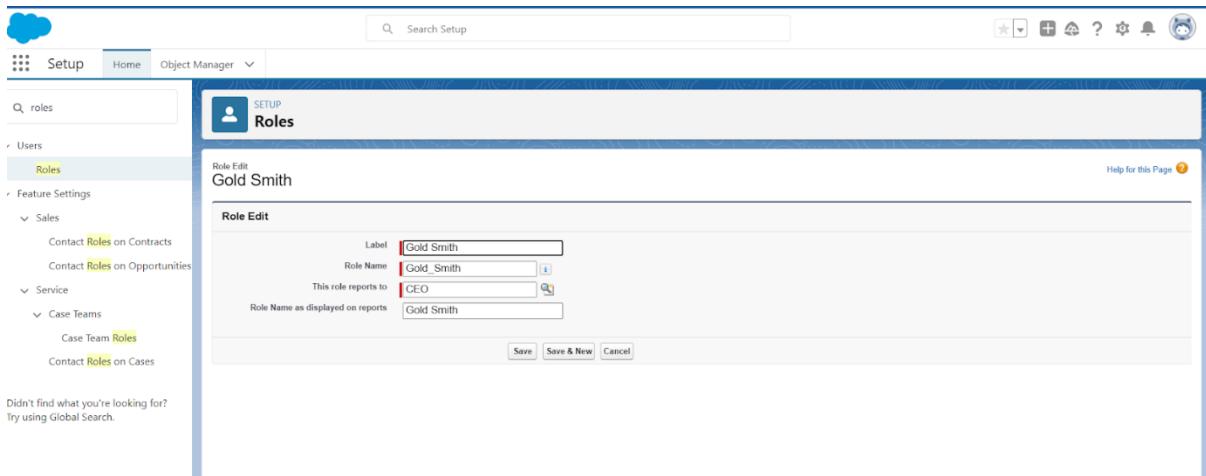
- From setup ,Go to quick find >> Search for Roles >> click on set up roles.



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



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



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

The screenshot shows the Salesforce Setup interface under the 'Users' section. On the left, there's a sidebar with various options like 'Permission Set Groups', 'Profiles', 'Public Groups', 'Quotas', 'Roles', 'User Management Settings', and 'Users'. The 'Users' option is selected. The main area is titled 'User Edit' for 'Niklaus Mikaelson'. It has tabs for 'General Information', 'Marketing', 'Office User', 'Knowledge User', 'Flow User', 'Service Cloud User', 'Site.com Contributor User', 'Site.com Publisher User', 'WDC User', and 'Data.com User Type'. Under 'General Information', fields include First Name ('Niklaus'), Last Name ('Mikaelson'), Alias ('Nikla'), Email ('niklaus@thesnarbridge.co'), Username ('niklaus@nick.org'), Nickname ('Niklaus'), Title (''), Company (''), Department (''), and Division (''). Buttons at the top right include 'Save', 'Save & New', and 'Cancel'. A note at the bottom says 'Did you find what you're looking for? Try using Global Search.' The 'Role' field is set to 'Gold Smith', 'User License' is 'Salesforce', and 'Profile' is 'Gold Smith', all of which are highlighted with a red box.

1. 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
3. 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:

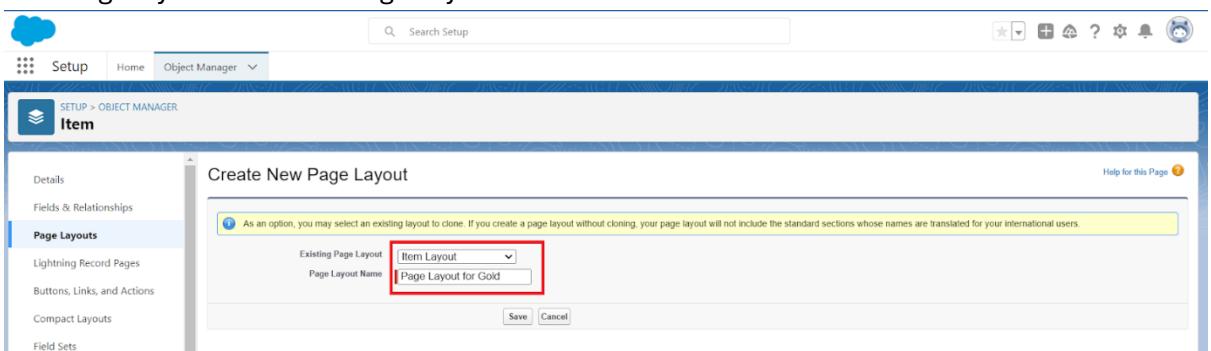
Hurray!! you have completed the data model structure for your organisation but while looking at the detailed and edit pages it seems to be so clumsy, so decide to organise the page in a pleasant way for the sake of good and pleasant appearance and assemble all different kinds of information in different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

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.

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

The screenshot shows the Salesforce Setup interface. At the top, there are tabs for 'Setup' and 'Home'. Below the tabs, a search bar says 'Search Setup' and a toolbar includes icons for Home, Object Manager, Help, and others. On the left, a sidebar has sections for 'Users' and 'Permission Sets'. Under 'Permission Sets', there is a red box around the 'Permission Sets' link. In the main content area, the title is 'Permission Sets'. It says 'On this page you can create, view, and manage permission sets.' and 'In addition, you can use the Salesforce mobile app to assign permission sets to a user. Download Salesforce from the App Store or Google Play: iOS | Android'. There is a 'New' button with a red box around it. A table lists permission sets, with the first row highlighted in blue. The table columns are 'Action', 'Permission Set Label', 'Description', and 'License'. The first row shows 'Clone' for 'Buyer', which 'Allows access to the store. Lets users see products and categories, ...' and is a 'B2B Buyer Permission Set One Seat'. Other rows include 'Buyer Manager', 'CRM User', 'Commerce Admin', 'Contact Center Admin', and 'Contact Center Agent'.

Action	Permission Set Label	Description	License
<input type="checkbox"/>	Clone	Allows access to the store. Lets users see products and categories, ...	B2B Buyer Permission Set One Seat
<input type="checkbox"/>	Clone	Includes all Buyer capabilities, and allows access to manage carts a...	B2B Buyer Manager Permission Set One Seat
<input type="checkbox"/>	Clone	Denotes that the user is a Sales Cloud or Service Cloud user.	CRM User
<input type="checkbox"/>	Clone	Allow access to commerce admin features.	Commerce Admin Permission Set License Seat
<input type="checkbox"/>	Clone	Manage Service Cloud Voice contact centers that use Amazon Conn...	Service Cloud Voice User
<input type="checkbox"/>	Clone	Access agent features in Service Cloud Voice contact centers that u...	Service Cloud Voice User

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

Permission Set
Clone: Per to Worker

Enter a new label and description for the cloned permission set.

Enter permission set information

Label	Per to Worker
API Name	Per_to_Worker
Description	
Session Activation Required	<input type="checkbox"/>
License	

Save Cancel

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

Settings that apply to Salesforce apps, such as Sales, and custom apps built on the Lightning Platform [Learn More](#)

4. Click on Items object ? click on Edit ? under Item:Record Type Assignments,enable Gold,Silver ? Object permission check for read ,edit and create.

Permission Set Overview > Object Settings Items

Items

Tab Settings

Available	Visible
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Item: Record Type Assignments

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

Object Permissions

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"/>

Field Permissions

5. Click on Save.
6. After saving the permission click on the Manage assignment
7. Now click on the Add Assignment.

Current Assignments

Add Assignment

Full Name	Role	Profile
Chatter Expert	Chatter Free User	Chatter Expert

Per to Worker

... > PERMISSION SET 'PER TO WORKER' > MANAGE ASSIGNMENT EXPIRATION

Select Users to Assign

All Users ▾

9 items • Sorted by Full Name • Filtered by All users • Updated a few seconds ago

Full Name ↑	Alias	Username	Role	Acti...	Profile
Chatter Expert	Chatter	chatty.00d5i000003ksyzea4.t4i5wtjeybt4@chatter.salesforce.com	Worker	✓	Chatter Free User
Integration User	integ	integration@00d5i000003ksyzea4.com	Worker	✓	Analytics Cloud Integration User
Mani deepak	mdeep	manideepak143@gmail.com	Worker	✓	Worker
Megha Katoju Site Guest User	guest	megha_katoju@00d5i000003ksyzea4.org.force.com	Worker	✓	Megha Katoju Profile
Meghana Katoj Site Guest User	guest	meghana_katoj@00d5i000003ksyzea4.org.force.com	Worker	✓	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.

... > PERMISSION SET 'PER TO WORKER' > MANAGE ASSIGNMENT EXPIRATION

Per to Worker

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	✓	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:

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

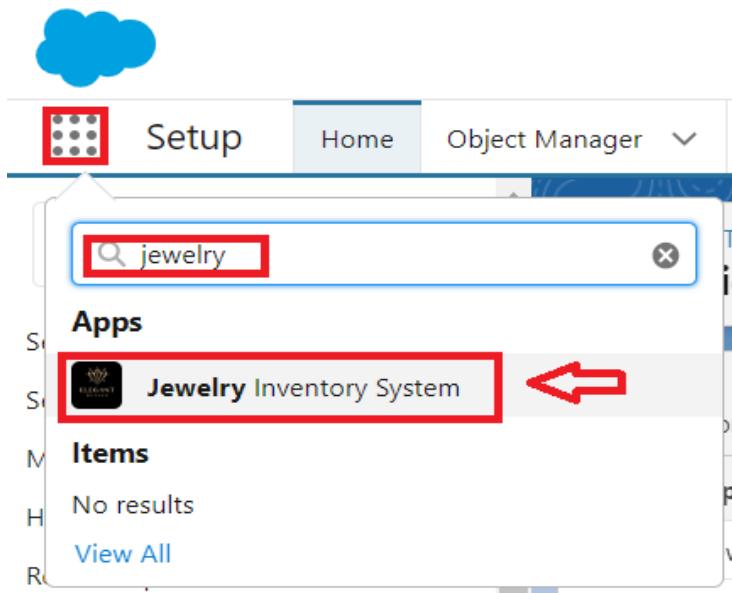
User Adoption

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.

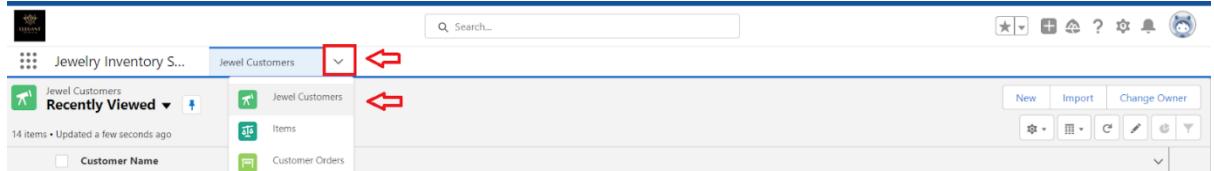
Create a Record (Jewel Customer)

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

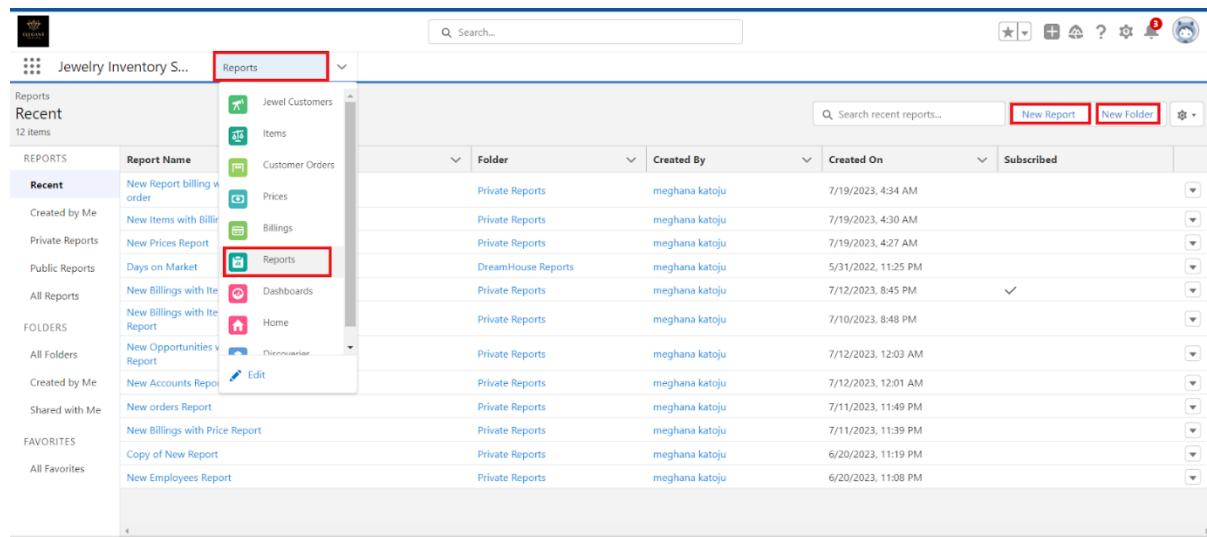
Use Case:

The GoldSmith of an organisation wants to have a brief data on Gold Items,Silver Items,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

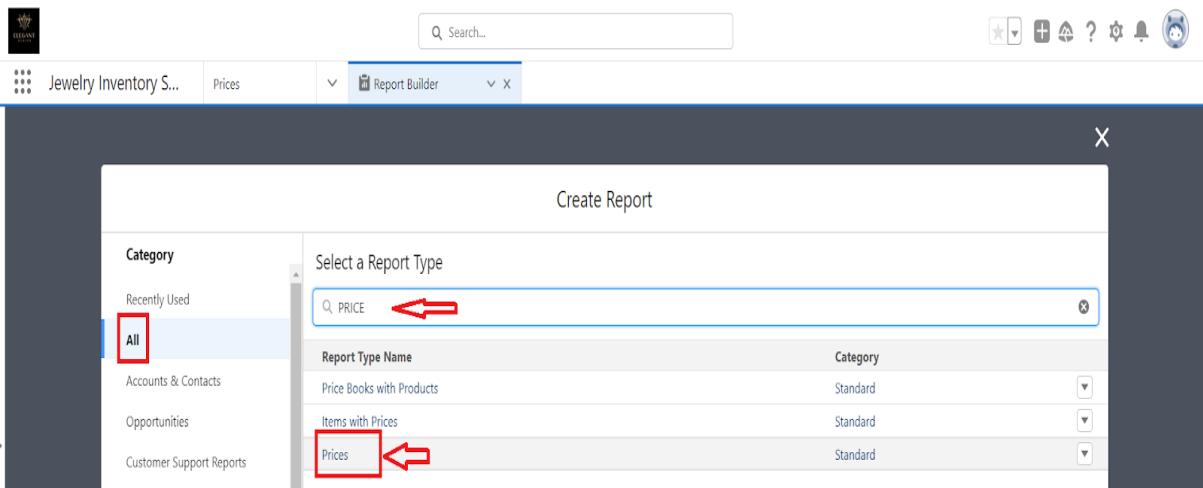
1. Go to the app >> click on the reports tab
2. Click New Report.



The screenshot shows the Jewelry Inventory Software interface. The top navigation bar has a search bar and several icons. Below it, a sidebar on the left lists categories like Reports, Recent, and Folders. The main area is titled "Jewelry Inventory S..." and shows a grid of reports. A red box highlights the "Reports" tab in the top navigation bar. Another red box highlights the "Reports" category in the sidebar under the "RECENT" section. The grid columns are "Report Name", "Folder", "Created By", "Created On", and "Subscribed". Each row in the grid represents a report, showing its name, the folder it belongs to, who created it, when it was created, and if it is subscribed.

Report Name	Folder	Created By	Created On	Subscribed
Jewel Customers	Private Reports	meghana katoju	7/19/2023, 4:34 AM	
Items	Private Reports	meghana katoju	7/19/2023, 4:30 AM	
Customer Orders	Private Reports	meghana katoju	7/19/2023, 4:27 AM	
Prices	DreamHouse Reports	meghana katoju	5/31/2022, 11:25 PM	
Billings	Private Reports	meghana katoju	7/12/2023, 8:45 PM	✓
Reports	Private Reports	meghana katoju	7/10/2023, 8:48 PM	
Days on Market	Private Reports	meghana katoju	7/12/2023, 12:03 AM	
Dashboards	Private Reports	meghana katoju	7/11/2023, 11:49 PM	
Home	Private Reports	meghana katoju	7/11/2023, 11:39 PM	
Opportunities	Private Reports	meghana katoju	6/20/2023, 11:19 PM	
Report	Private Reports	meghana katoju	6/20/2023, 11:08 PM	

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



4. Customise your report

The screenshot shows the 'New Prices Report' configuration screen. At the top, there's a toolbar with icons for 'Search...', 'Report Type', 'Save & Run', 'Save', 'Close', and 'Run' (which is highlighted with a red box). Below the toolbar, the report title is 'New Prices Report / Prices'. The main area is divided into sections: 'Fields' on the left and a preview grid on the right. In the 'Fields' section, under 'Groups', 'Add group...' is highlighted with a red box. Under 'Columns', 'Add column...' is highlighted with a red box. The preview grid shows a list of 10 items labeled 1 through 10, each with a price value starting with 'p-' followed by a four-digit number. A message at the top right says 'To see the latest edits, refresh the preview. Refresh'.

- Add fields from the left pane as shown below.

5. Save or run it.

The screenshot shows the Report Builder interface with the following details:

- REPORT** dropdown: New Prices Report
- Fields** section:
 - Groups**: GROUP ROWS, Add group...
 - Columns**: Price: Price, # Gold price, # Silver price
- Preview**: A table showing 11 rows of data with columns: Price: Price, Gold price, Silver price.
- Toolbar**: Search bar, Add Chart, Save & Run, Save, Close, Run.
- Settings**: Update Preview Automatically toggle switch.

	Price: Price	Gold price	Silver price
1	p-022	₹60,000.0000	₹71,000.0000
2	p-021	₹63,000.0000	₹72,000.0000
3	p-027	₹62,350.0000	₹70,200.0000
4	p-029	₹58,700.0000	₹69,000.0000
5	p-030	₹66,000.0000	₹78,000.0000
6	p-026	₹62,000.0000	₹70,000.0000
7	p-025	₹58,000.0000	₹69,000.0000
8	p-028	₹59,900.0000	₹73,000.0000
9	p-024	₹62,000.0000	₹73,000.0000
10	p-023	₹58,000.0000	₹69,000.0000
11		₹609,950.0000	₹714,200.0000

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

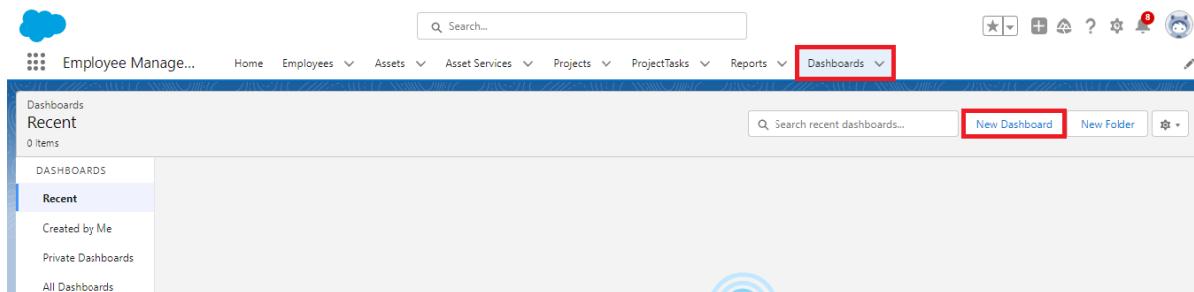
Dashboards help you visually understand changing business conditions so you can make decisions based on the real-time data you've gathered with reports. Use dashboards to help users identify trends, sort out quantities, and measure the impact of their activities. Before building, reading, and sharing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

New Dashboard

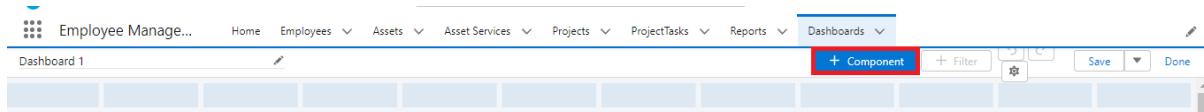
* Name

Description

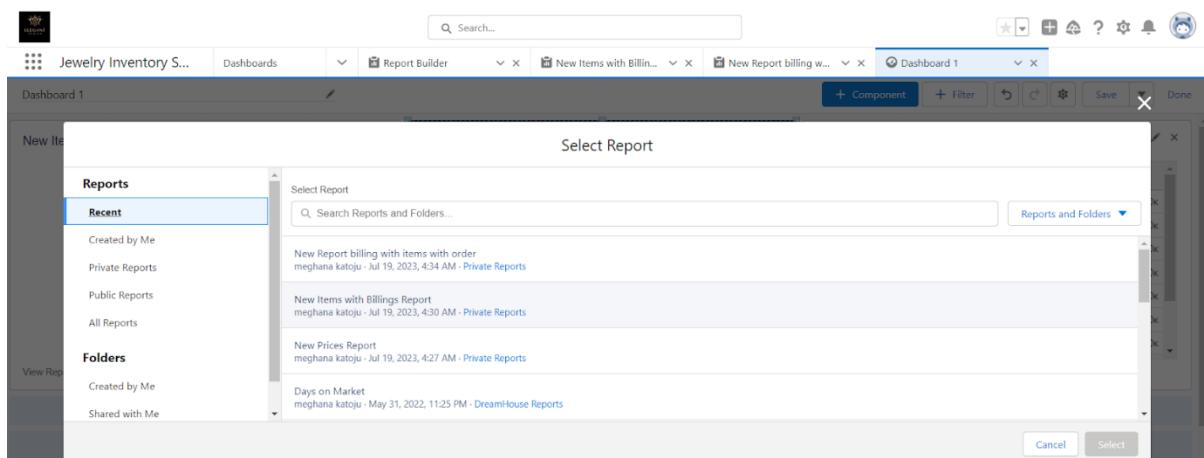
Folder
 Select Folder

Create Cancel

3. Select add component.

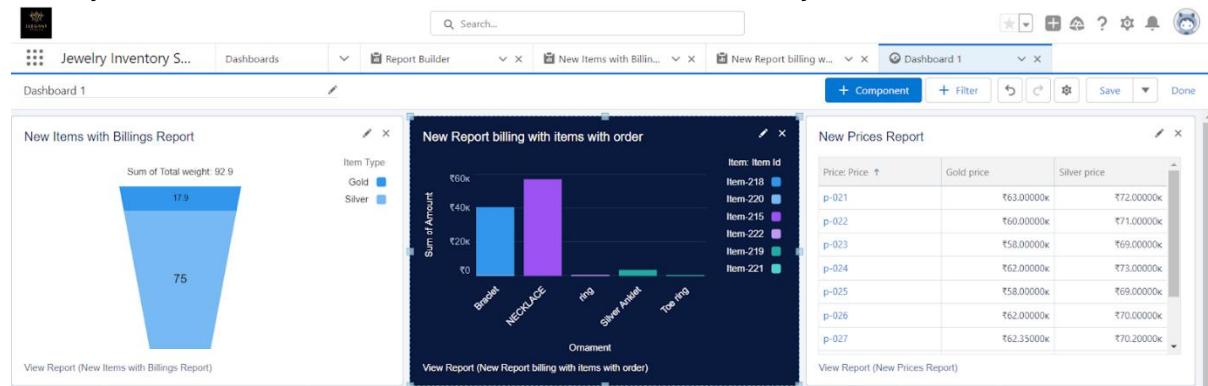


4. Select a Report and click on select.



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.

New Flow

Core All + Templates

The screenshot shows a list of flow types. The 'Record-Triggered Flow' option is highlighted with a red box and a red number '1' in the top right corner of its box. Below it, a red number '2' is located next to a blue 'Create' button.

- Screen Flow
- Record-Triggered Flow
- Schedule-Triggered Flow
- Platform Event—Triggered Flow
- Autolaunched Flow (No Trigger)
- Record-Triggered Orchestration

1

2 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

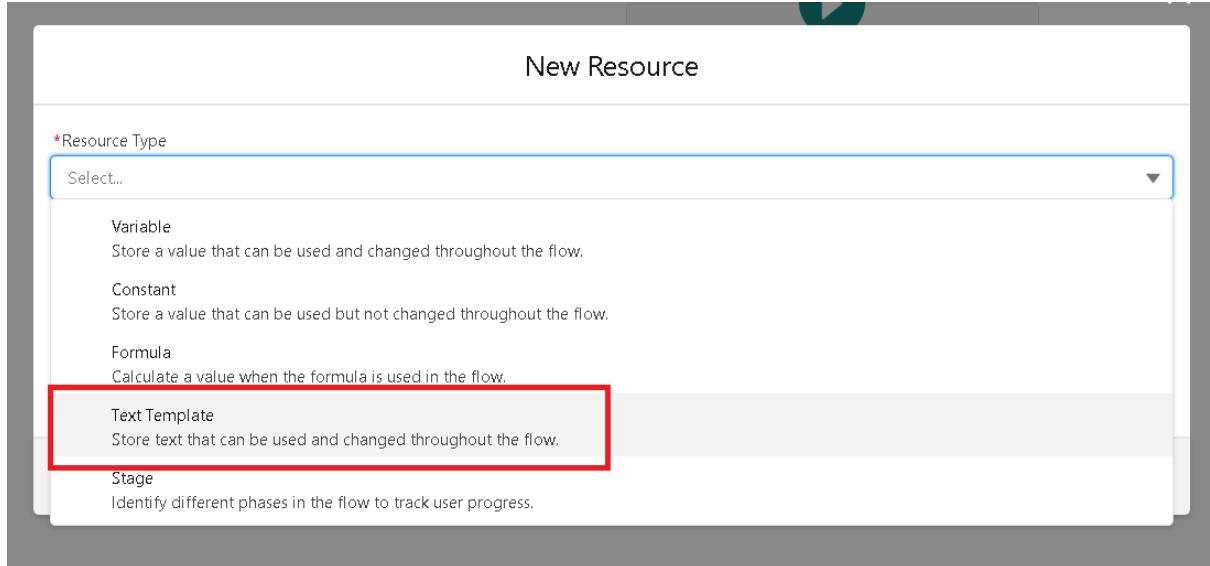
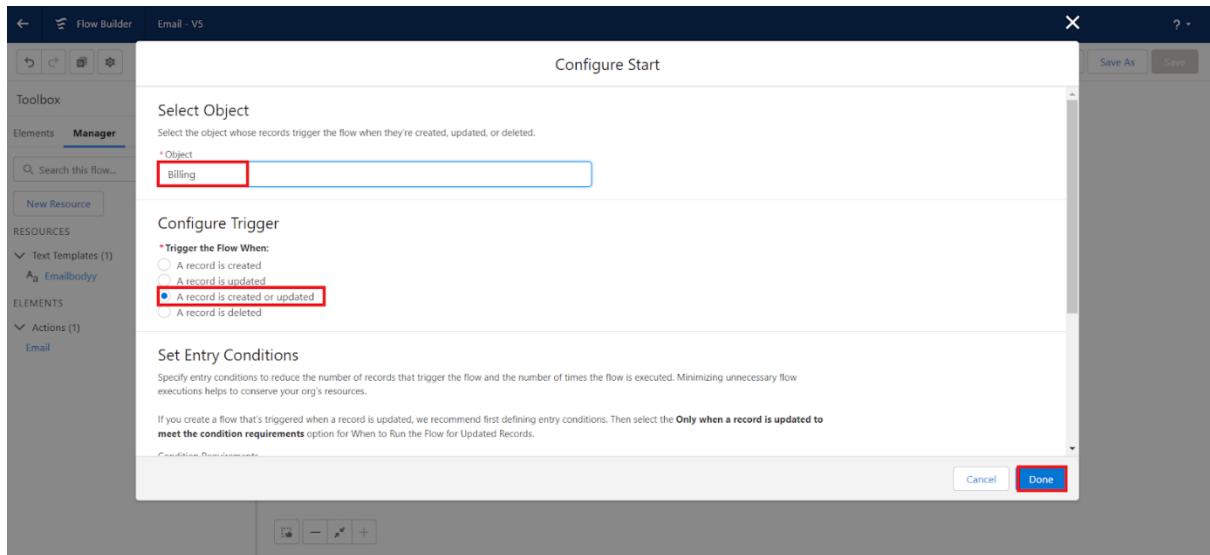
Specify entry conditions to reduce the number of records that trigger the flow and the number of times the flow is executed. Minimizing unnecessary flow executions helps to conserve your org's resources.

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.

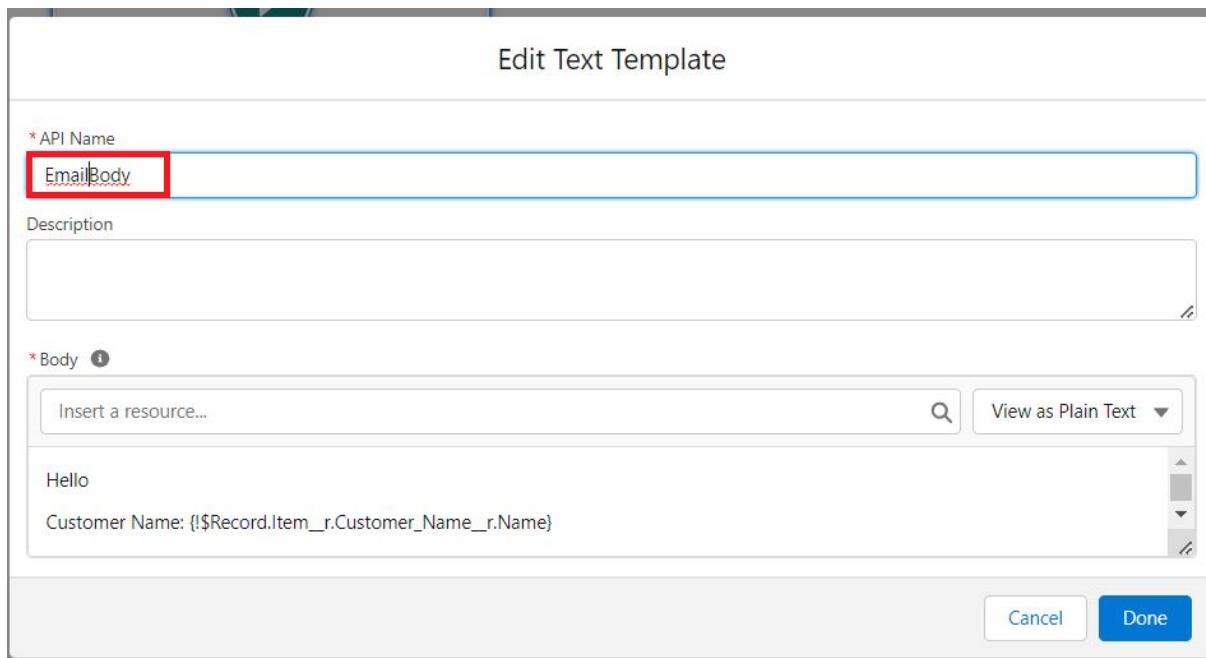
Condition Requirements

Cancel Done

6. Now change the mode form 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.



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



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.

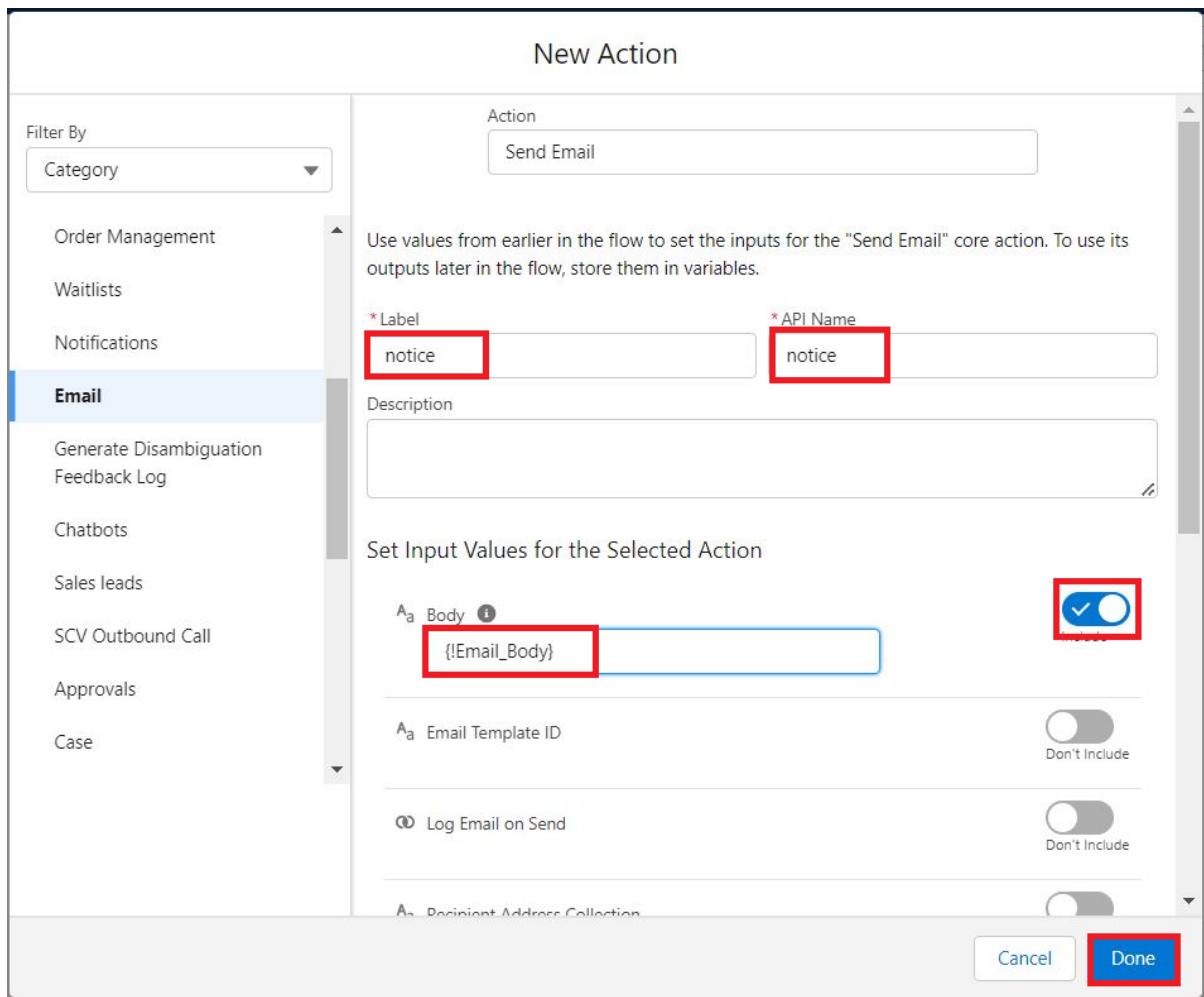
14. Their action bar will be opened in that search for “ send email ” and click on it.

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.

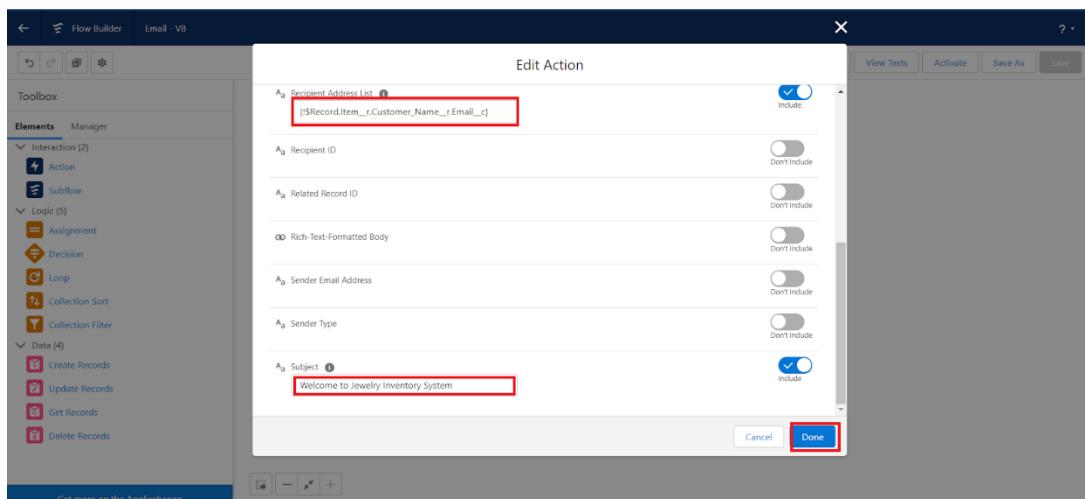


19. Include Recipient Address list, select the email form the record.

`({!!$Record.Item_r.Customer_Namer.Email_c})`

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

21. Click done.

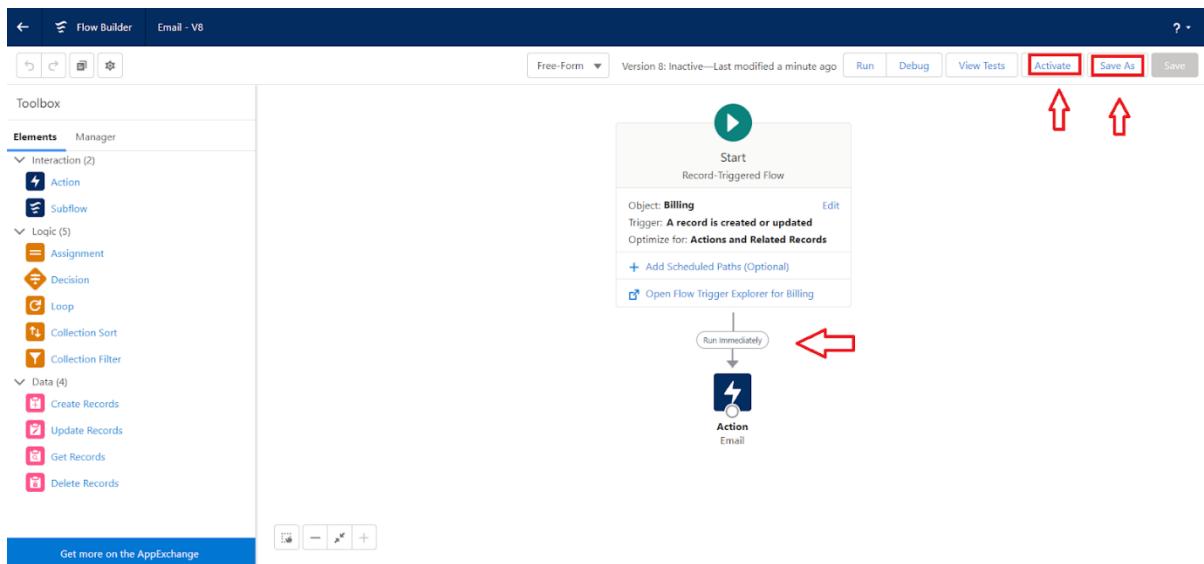
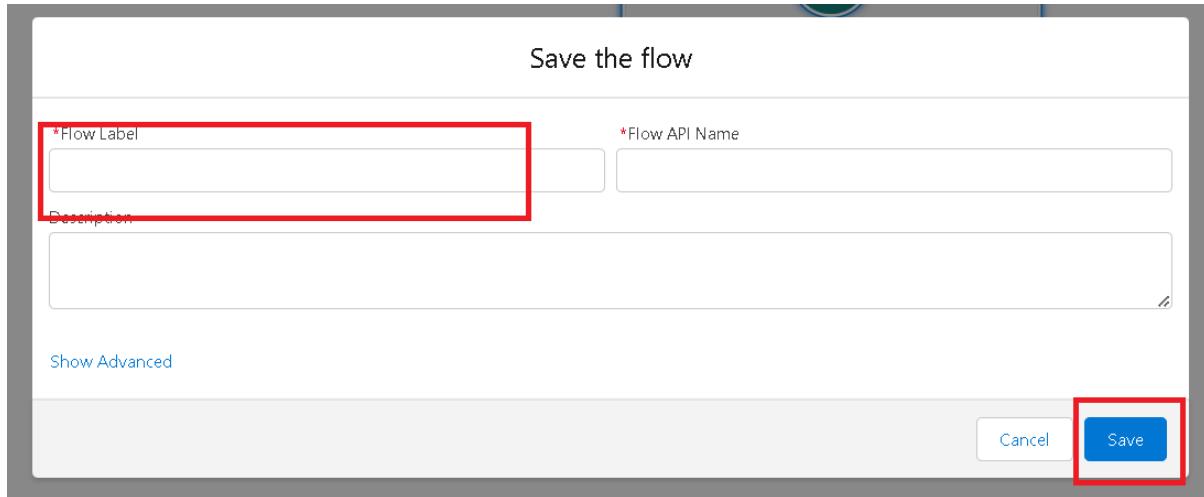


22. Now drag the path from the start to the action element.

23.

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

25. And click save, and click on activate.



Final output

The screenshot shows the Salesforce Setup Home page. The top navigation bar includes a blue cloud icon, 'Setup' (selected), 'Home', and 'Object Manager'. Below the navigation is a search bar labeled 'Search Setup' and a toolbar with various icons. The main content area is titled 'SETUP Home' with a 'Create' button. It features three cards: 'Get Started with Einstein Bots' (illustrated with a white robot and a green landscape), 'Mobile Publisher' (illustrated with a smartphone and a sunset over mountains), and 'Real-time Collaborative Docs' (illustrated with a red document icon in a jungle setting). Each card has a 'Get Started' button.

The screenshot shows the 'Tabs' page under the 'SETUP' tab. The title is 'Custom Tabs'. A help link 'Help for this Page' is at the top right. The page content includes sections for 'Custom Object Tabs', 'Web Tabs', 'Visualforce Tabs', and 'Lightning Component Tabs'. The 'Custom Object Tabs' section lists five tabs: 'Billings', 'Customer Orders', 'Items', 'Jewel Customers', and 'Prices', each with a 'Balls' icon and a 'Tab Style' dropdown. The 'Web Tabs' section says 'No Web Tabs have been defined'. The 'Visualforce Tabs' section says 'No Visualforce Tabs have been defined'. The 'Lightning Component Tabs' section says 'No Lightning component tabs have been defined'.

Item

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access
Triggers

Details**Edit** **Delete**

Description

API Name

Item_c

Custom

✓

Singular Label

Item

Plural Label

Items

Enable Reports

✓

Track Activities

Track Field History

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

Jewel Customer

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access
Triggers

Details**Edit** **Delete**

Description

API Name

Jewel_Customer_c

Custom

✓

Singular Label

Jewel Customer

Plural Label

Jewel Customers

Enable Reports

✓

Track Activities

Track Field History

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

7	Community	Community	Salesforce CRM Communities	8/20/2025, 12:45 AM	Classic	✓	▼
8	Content	Content	Salesforce CRM Content	8/20/2025, 12:45 AM	Classic	✓	▼
9	Data Cloud	Audience360	Build a thorough and complete understanding of your customers.	8/20/2025, 12:45 AM	Lightning	✓	▼
10	Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and manage recipes.	8/20/2025, 12:45 AM	Lightning	✓	▼
11	Digital Experiences	SalesforceCMS	Manage content and media for all of your sites.	8/20/2025, 12:45 AM	Lightning	✓	▼
12	Jewellery Inventory System	Jewellery_Inventory_System	Elevate your look with elegance	8/26/2025, 2:14 AM	Lightning	✓	▼
13	Lightning Usage App	LightningInstrumentation	View Adoption and Usage Metrics for Lightning Experience	8/20/2025, 12:45 AM	Lightning	✓	▼
14	Marketing CRM Classic	Marketing	Track sales and marketing efforts with CRM objects.	8/20/2025, 12:45 AM	Classic	✓	▼
15	My Service Journey	MSJApp	Discover new customer service capabilities.	8/20/2025, 12:45 AM	Lightning	✓	▼
16	Platform	Platform	The fundamental Lightning Platform	8/20/2025, 12:45 AM	Classic	✓	▼

Flow Builder | Email - VB

Free-Form Version 8: Inactive—Last modified a minute ago Run Debug View Tests Activate Save As Save

Toolbox

Elements Manager

- Interaction (2)
 - Action
 - Subflow
- Logic (5)
 - Assignment
 - Decision
 - Loop
 - Collection Sort
 - Collection Filter
- Data (4)
 - Create Records
 - Update Records
 - Get Records
 - Delete Records

Object: Billing Trigger: A record is created or updated Optimize for: Actions and Related Records

Start Record-Triggered Flow

Run Immediately

Action Email

Get more on the AppExchange

Jewelry Inventory S... Reports Report Builder New Items with Billin... New Prices Report Prices

REPORT ▾ Previewing a limited number of records. Run the report to see everything.

Outline Filters 1

Groups: GROUP ROWS Add group... Columns: Add column... Price: Price # Gold price # Silver price

Price: Price Gold price Silver price

	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

Update Preview Automatically

Jewelry Inventory S... Dashboards Report Builder New Items with Billin... New Report billing w... Dashboard 1

Dashboard 1 + Component + Filter Save Done

New Items with Billings Report

Sum of Total weight: 92.9

Item Type: Gold (blue), Silver (light blue)

View Report (New Items with Billings Report)

New Report billing with items with order

Item: Item Id

Item Id
Item-218
Item-220
Item-215
Item-222
Item-219
Item-221

View Report (New Report billing with items with order)

New Prices Report

Price: Price ↑	Gold price	Silver price
p-021	₹63,00000k	₹72,00000k
p-022	₹60,00000k	₹71,00000k
p-023	₹58,00000k	₹69,00000k
p-024	₹62,00000k	₹73,00000k
p-025	₹58,00000k	₹69,00000k
p-026	₹62,00000k	₹70,00000k
p-027	₹62,35000k	₹70,20000k

View Report (New Prices Report)