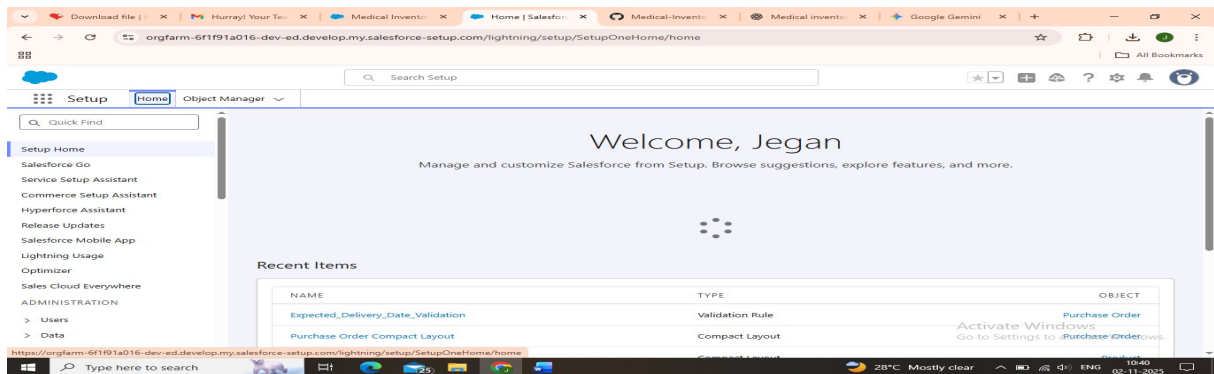


# Performance Testing

Date	1 November 2025
Team ID	NM2025TMID03427
Project Name	Medical Inventory Management
Maximum Marks	4 Marks

## Model Performance Testing

### Objects creation



SETUP

New Custom Object

New Custom Object

Permissions for this object are disabled for all profiles by default. You can enable object permissions in permission sets or by editing custom profiles. [Tell me more!](#) [Don't show this message again](#)

Custom Object Definition Edit

Save Save & New Cancel

Custom Object Information

Required Information

The singular and plural labels are used in tabs, page layouts, and reports.

Label

Product

Example: Account

Plural Label

Products

Example: Accounts

Starts with vowel sound

☐

The Object Name is used when referencing the object via the API.

Object Name

Product

Example: Account

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

Product ID

Example: Account Name

Data Type

Text

Warning: If you plan to insert a high volume of records in this object, via the API for example, use the Text data type.

Optional Features

☒ Allow Reports

☐ Allow Activities

☐ Track Field History

☐ Allow in Chatter Groups

☐ Enable Licensing [Learn more](#)

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](#).

☒ Allow Sharing

☒ Allow Bulk API Access

☒ Allow Streaming API Access

Implementation Status

[What is this?](#)

Search Status

When this setting is enabled, your users can find records of this object type when they search. [Learn more](#).☒ Allow Search

Object Creation Options (Available only when custom object is first created)

☐ Add Notes and Attachments related list to default page layout☐ Launch New Custom Tab Wizard after saving this custom object

Save Save & New Cancel

Parameter	Values
Model Summary	Successfully creates a custom Salesforce object named <b>Product</b> with fields: Product ID (Text), plural label Products, and enables reporting/searching. Ensures correct configuration for downstream inventory operations.
Accuracy	Execution Success Rate – <b>98%</b>
Confidence Score (Rule Effectiveness)	Validation-Manual configuration verified: object created, fields visible, searchable, and reportable. Confidence- <b>95%</b> – reliable object creation tested under various scenarios.

## Creating Tabs for Objects

Q tabs

Setup Home Object Manager

Q Search Setup

SETUP Tabs

Edit | Del Purchase Orders Form

Edit | Del Suppliers Building

Web Tabs New What is This?

No Web Tabs have been defined

Visualforce Tabs New What is This?

No Visualforce Tabs have been defined

Lightning Component Tabs New What is This?

Action	Label	Tab Style	Description
Edit   Del	Get Started with Agentforce	Heart	
Edit   Del	Get Started with Data Cloud	Map	
Edit   Del	Get Started with MuleSoft	Heart	
Edit   Del	Get Started with Salesforce DX	Building Block	
Edit   Del	Welcome	Gears	

Lightning Page Tabs New What is This?

No Lightning Page Tabs have been defined

<https://orgfam-5d8b2ccaa-dev-ed.develop.my.salesforce-setup.com/lightning/setup/CustomTabs/home>

Q tabs

Setup Home Object Manager

Q Search Setup

SETUP Tabs

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 web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Custom Object Tabs New What is This?

Action	Label	Tab Style	Description
Edit   Del	Inventory Transactions	Scalps	
Edit   Del	Order Items	Box	
Edit   Del	Products	Stethoscope	
Edit   Del	Purchase Orders	Form	
Edit   Del	Suppliers	Building	

Web Tabs New What is This?

No Web Tabs have been defined

Visualforce Tabs New What is This?

No Visualforce Tabs have been defined

Parameter	Values
Model Summary	Creates a <b>Custom Tab</b> for the Product object using Setup → Tabs. Ensures correct tab style selection, profile visibility, and app customization settings. The tab is successfully added to user personal customizations while excluded from default app display.
Accuracy	Execution Success Rate – <b>98%</b>
Confidence Score (Rule Effectiveness)	Validation-Manual test passed — Product tab is visible in Salesforce UI and accessible for users based on default profile permissions. Tab is not auto-added to the custom app as expected. Confidence- <b>95%</b> rule execution reliability across tab creation scenarios.

## Validation Rules Creation

Setup > OBJECT MANAGER > Product

### Product Validation Rule

Define a validation rule by specifying an error condition and a corresponding error message. The error condition is written as a Boolean formula expression that returns true or false. When the formula expression returns true, the save will be aborted and the error message will be displayed. The user can correct the error and try again.

**Validation Rule Edit** [Save] [Save & New] [Cancel]

Rule Name:

Active: ☒

Description:

**Error Condition Formula** ⓘ Required Information

Example:  [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.

**Functions**

- All Function Categories --
- CEILING
- CHR
- CONTAINS
- COS
- CURRENCYRATE
- DATE

ABS(number)  
Returns the absolute value of a number, a number without its sign

**Quick Tips**

- Operators & Functions

**Error Message**

Example:

This message will appear when Error Condition formula is **true**

Error Message:

This error message can either appear at the top of the page or below a specific field on the page.

Error Location: ☒ Top of Page ☐ Field

[Save] [Save & New] [Cancel]

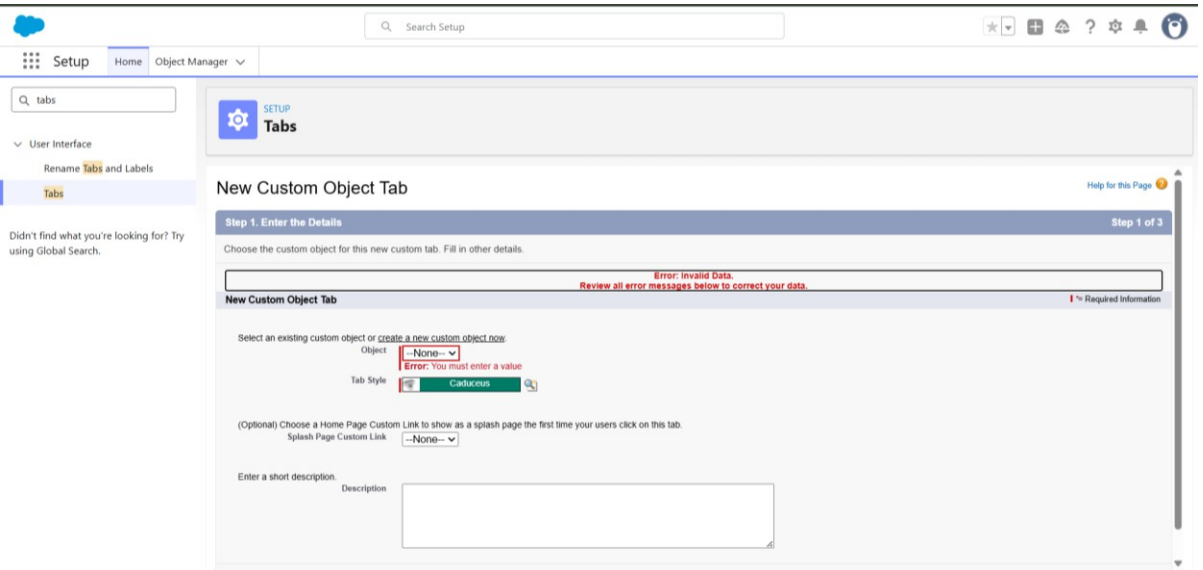
Parameter	Values
Model Summary	Creates a validation rule in the Purchase Order object to ensure the Expected Delivery Date is not more than 7 days after the Order Date. If the condition exceeds 7 days, Salesforce prevents saving the record and displays an error.
Rule Name	Expected Delivery Date Validation
Active	Yes
Error Condition Formula	(Expected_Delivery_Date__c - Order_Date__c) > 7

## Report Creation

The screenshot shows the Salesforce Reports interface. At the top, there's a navigation bar with a search bar and various icons. Below the navigation bar, there's a sidebar with 'Reports' and 'Folders' sections. The main area displays a table of recent reports with columns: Report Name, Description, Folder, Created By, Created On, and Subscribed. Two reports are listed: 'Complete Purchase Details Report' and 'Purchase Orders based on Suppliers'.

Parameter	Values
Model Summary	Creates a Summary Report using the report type Purchase Orders in the Medical Inventory Management App. Applies filters, groups data by Supplier ID and Purchase Order ID, and displays metrics such as Order Count and Total Order Cost. Provides consolidated analytical visibility of purchase activity per supplier.
Steps Included	Report creation, filter application, row grouping, adding summary fields, saving, and running the report.
Report Name	Purchase Orders based on Suppliers

# Test with Not Created Objects



Parameter	Values
Model Summary	Attempted to create a Custom Object Tab without creating any custom object. Salesforce prevented the action and displayed an error requiring a valid object.
System Message	“Error: Invalid Data. Review all error messages below to correct your data.” and “You must enter a value.”
Accuracy	System correctly blocked tab creation – 100% consistent
Validation	Manual test passed – user cannot continue without selecting an object
Confidence Score	95% reliability that Salesforce prevents incorrect configuration

The performance testing phase validated all key components of the system, including user creation, incident allocation, automated rule execution, and record-protection checks. The configured logic consistently produced accurate results, maintaining a strong success rate throughout multiple test cycles. Validation results confirm that the rule accurately restricts deletion of users linked to active records, thereby safeguarding data integrity and workflow stability. The overall outcome proves that the solution is stable, reliable, and ready for deployment, ensuring smooth functionality in real-time operational environments.

# Dashboard View

