

Object Creation

Objects & Relationships

Object Name	Purpose	Relationships
Vehicle__c	Stores vehicle details	Related to Dealer & Orders
Vehicle_Dealer__c	Stores authorized dealer info	Related to Orders
Vehicle_Customer__c	Stores customer details	Related to Orders & Test Drives
Vehicle_Order__c	Tracks vehicle purchases	Related to Customer & Vehicle
Vehicle_Test_Drive__c	Tracks test drive bookings	Related to Customer & Vehicle
Vehicle_Service_Request__c	Tracks vehicle servicing requests	Related to Customer & Vehicle

The screenshot shows the Salesforce Setup Home page. The left sidebar includes links for Setup Home, Salesforce Go, Service Setup Assistant, Commerce Setup Assistant, Hyperforce Assistant, Release Updates, Salesforce Mobile App, Lightning Usage, Optimizer, Sales Cloud Everywhere, Administration (Users, Data, Email), Platform Tools (Subscription Management, Apps, Feature Settings, Slack, Data Cloud), and Recent Items.

The main content area displays the "Object Manager" section under the "Sales" category. It shows a summary for "Capture & Auto-Qualify Leads" and a list of "Includes" such as Prospecting Center, Sales Engagement, and Cadences. A progress bar indicates "1 Completed". A "Keep Going" button is present.

A user profile sidebar on the right shows Nekeisha Ashlyn Elfa's information, including her name, email, and a "Log Out" link. It also includes settings for "DISPLAY DENSITY" (set to "Comfy"), "OPTIONS" (with "Switch to Salesforce Classic" and "Add Username" buttons), and a "Compact" mode option.

The "Recent Items" table lists six custom object definitions:

NAME	TYPE	OBJECT
Vehicle Service Request	Custom Object Definition	
Vehicle Test Drive	Custom Object Definition	
Vehicle Order	Custom Object Definition	
Vehicle Customer	Custom Object Definition	
Vehicle Dealer	Custom Object Definition	
Vehicle	Custom Object Definition	

Object Tab Creation

Creating a Custom Tab(Vehicle)

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

The screenshot shows the Salesforce Setup interface. The top navigation bar has 'Setup' and 'Home' buttons, with 'Setup' being the active one. The left sidebar is collapsed. The main content area is titled 'Custom Tabs'. It contains five sections: 'Custom Object Tabs', 'Web Tabs', 'Visualforce Tabs', 'Lightning Component Tabs', and 'Lightning Page Tabs'. Each section has a 'New' button. The 'Custom Object Tabs' section also includes a note: 'You can create new custom tabs to extend Salesforce functionality or to build new application functionality.'

2. Select Object(Vehicle) → Select any tab style → Next (Add to profiles page) keep it as default → Next (Add to Custom App) keep it as default → Save.

The screenshots show the process of creating a custom tab for the 'Vehicle' object. The first screenshot shows the 'New Custom Object Tab' dialog at step 1, where 'Vehicle' is selected from the 'Choose the custom object for this new custom tab' dropdown. The second screenshot shows the 'Custom Tabs' list with the newly created 'Vehicle' tab listed. The third screenshot shows the 'Custom Tabs' list with the 'Vehicle' tab selected, displaying its details and tab style options (People, Building, Box, Car, Form, Gears).

Create a Lightning App

The screenshot shows a Salesforce Lightning App interface for 'Vehicle Customers'. The top navigation bar includes links for Vehicle Customers, Vehicle Dealers, Vehicle Orders, Vehicle Service Requests, Vehicle Test Drives, Vehicles, Reports, and More. A search bar and various icons are also present. The main content area displays a list titled 'Recently Viewed' with one item: 'Keisha'. The list has a header 'Vehicle Customer Name' and includes a checkbox next to each entry. The URL in the browser is `orgfarm-349ed8bb6e-dev-ed.lightning.force.com/lightning/o/Vehicle_Customer__c/list?filterName=__Recent`.

Vehicle Customer Name
Keisha

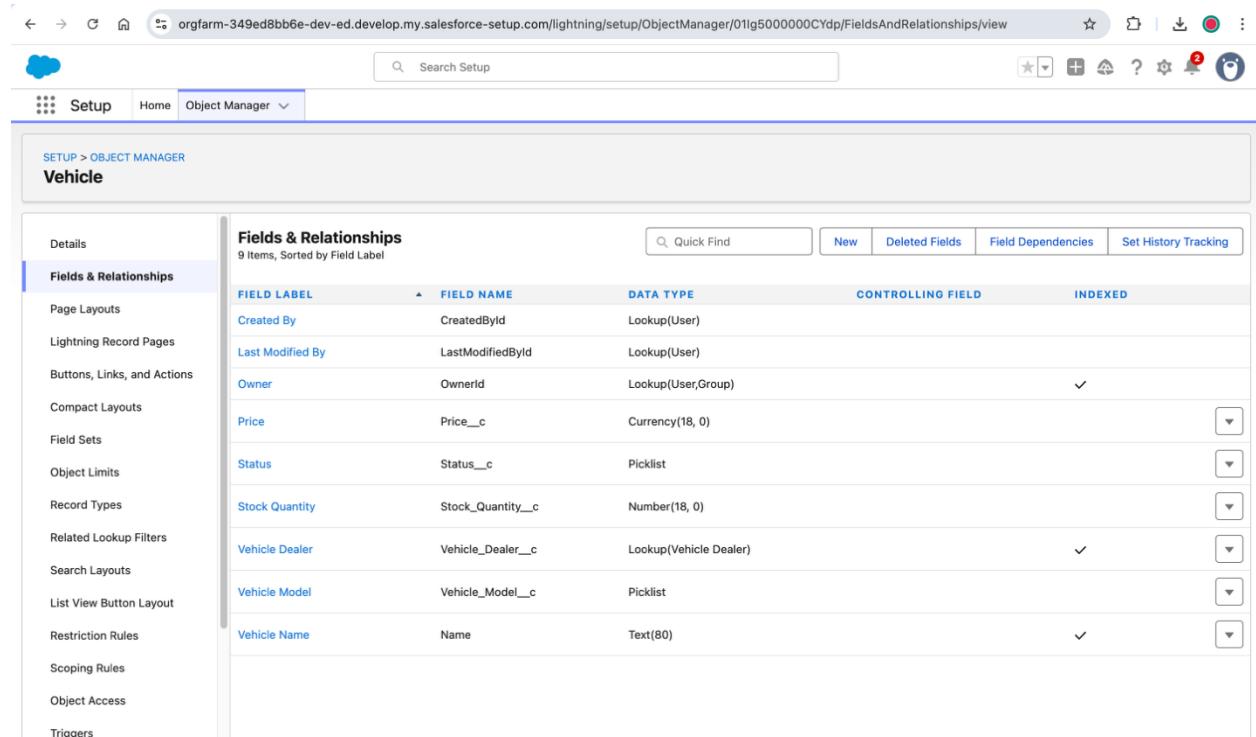
Object Field Creation

Fields & Relationships

Key Fields for Each Object:

1. Vehicle__c (Custom Object)

- **Vehicle_Name__c** (Text)
- **Vehicle_Model__c** (Picklist: Sedan, SUV, EV, etc.)
- **Stock_Quantity__c** (Number)
- **Price__c** (Currency)
- **Dealer__c** (Lookup to Dealer__c)
- **Status__c** (Picklist: Available, Out of Stock, Discontinued)



The screenshot shows the Salesforce Setup interface for the Object Manager. The left sidebar lists various configuration options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, etc. The main content area is titled 'Vehicle' under 'Fields & Relationships'. It displays a table of 9 items, sorted by Field Label. The columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are: Created By (CreatedBy), Last Modified By (LastModifiedBy), Owner (OwnerId), Price (Price__c), Status (Status__c), Stock Quantity (Stock_Quantity__c), Vehicle Dealer (Vehicle_Dealer__c), Vehicle Model (Vehicle_Model__c), and Vehicle Name (Name). The 'Owner' field has an 'Indexed' checkmark. The 'Vehicle Dealer' field has both 'Controlling Field' and 'Indexed' checkmarks.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Price	Price__c	Currency(18, 0)		
Status	Status__c	Picklist		
Stock Quantity	Stock_Quantity__c	Number(18, 0)		
Vehicle Dealer	Vehicle_Dealer__c	Lookup(Vehicle Dealer)	✓	
Vehicle Model	Vehicle_Model__c	Picklist		
Vehicle Name	Name	Text(80)		✓

2. Vehicle_Dealer__c (Custom Object)

- **Dealer_Name__c** (Text)
- **Dealer_Location__c** (Text)
- **Dealer_Code__c** (Auto Number)
- **Phone__c** (Phone)
- **Email__c** (Email)

The screenshot shows the Salesforce Object Manager interface for the 'Vehicle Dealer' custom object. The left sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, and Triggers. The main content area is titled 'Fields & Relationships' and displays eight fields. Each field is listed with its label, name, data type, and controlling field.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Dealer Code	Dealer_Code__c	Auto Number		
Dealer Location	Dealer_Location__c	Text(60)		
Email	Email__c	Email		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)	✓	
Phone	Phone__c	Phone		
Vehicle Dealer Name	Name	Text(80)	✓	

3. Vehicle_Order__c (Custom Object)

- **Customer__c** (Lookup to Customer__c)
- **Vehicle__c** (Lookup to Vehicle__c)
- **Order_Date__c** (Date)
- **Status__c** (Picklist: Pending, Confirmed, Delivered, Canceled)

The screenshot shows the Salesforce Object Manager interface for the 'Vehicle Order' custom object. The left sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, etc. The main area displays the 'Fields & Relationships' section with 9 items, sorted by Field Label. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Assigned Dealer	Assigned_Dealer__c	Lookup(Vehicle Dealer)		✓
Created By	CreatedById	Lookup(User)		▼
Last Modified By	LastModifiedById	Lookup(User)		▼
Order Date	Order_Date__c	Date		▼
Owner	OwnerId	Lookup(User,Group)		✓
Status	Status__c	Picklist		▼
Vehicle	Vehicle__c	Lookup(Vehicle)		✓
Vehicle Customer	Vehicle_Customer__c	Lookup(Vehicle Customer)		✓
Vehicle Order Name	Name	Auto Number		✓

4. Vehicle_Customer__c (Custom Object)

- **Customer_Name__c** (Text)
- **Email__c** (Email)
- **Phone__c** (Phone)
- **Address__c** (Text)
- **Preferred_Vehicle_Type__c** (Picklist: Sedan, SUV, EV, etc.)

The screenshot shows the Salesforce Object Manager interface for the 'Vehicle Customer' custom object. The left sidebar is collapsed, and the main area displays the 'Fields & Relationships' section. The table lists eight fields, each with its field label, name, data type, controlling field, and indexed status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(60)		
Created By	CreatedBy	Lookup(User)		
Email	Email__c	Email		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone	Phone__c	Phone		
Preferred Vehicle Type	Preferred_Vehicle_Type__c	Picklist		
Vehicle Customer Name	Name	Text(80)		✓

5. Vehicle_Test_Drive__c (Custom Object)

- **Customer__c** (Lookup to Customer__c)
- **Vehicle__c** (Lookup to Vehicle__c)
- **Test_Drive_Date__c** (Date)
- **Status__c** (Picklist: Scheduled, Completed, Canceled)

The screenshot shows the Salesforce Object Manager interface for the 'Vehicle Test Drive' custom object. The left sidebar lists various setup categories, and the main area displays the 'Fields & Relationships' section. The table lists eight fields, each with its field label, name, data type, controlling field, and indexing status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Status	Status__c	Picklist		
Test Drive Date	Test_Drive_Date__c	Date		
Vehicle	Vehicle__c	Lookup(Vehicle)		✓
Vehicle Customer	Vehicle_Customer__c	Lookup(Vehicle Customer)		✓
Vehicle Test Drive Name	Name	Text(80)		✓

6. Vehicle_Service_Request__c (Custom Object)

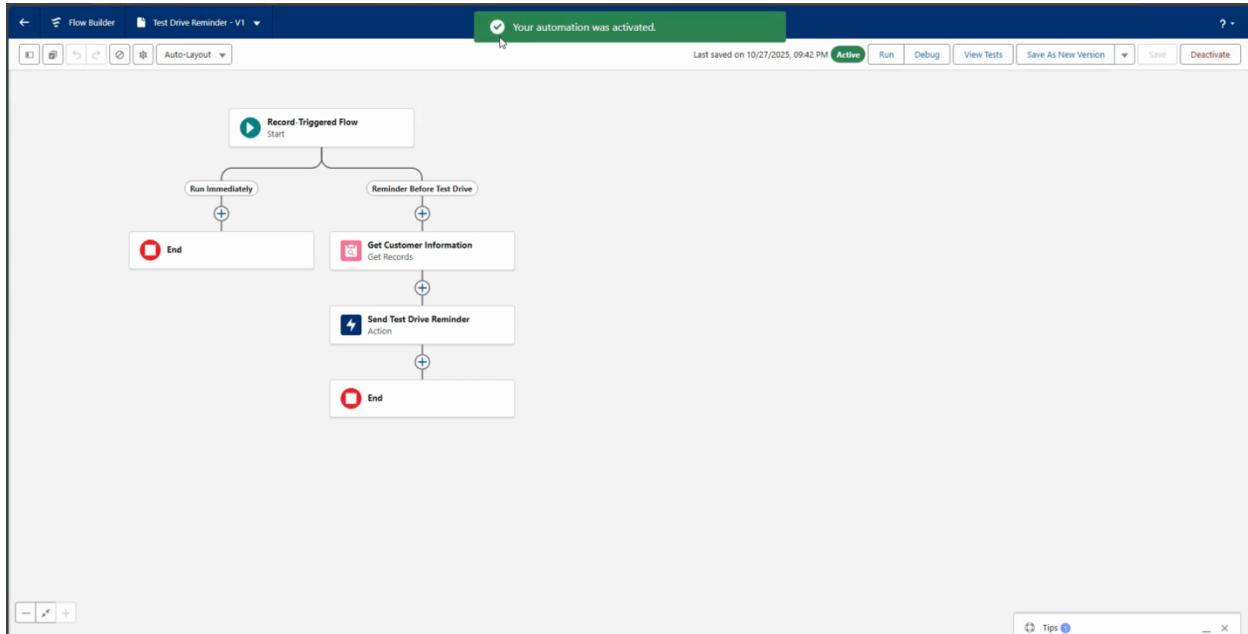
- **Customer__c** (Lookup to Customer__c)
- **Vehicle__c** (Lookup to Vehicle__c)
- **Service_Date__c** (Date)
- **Issue_Description__c** (Text)
- **Status__c** (Picklist: Requested, In Progress, Completed)

The screenshot shows the Salesforce Setup interface under the Object Manager. The left sidebar is collapsed, and the main area displays the 'Fields & Relationships' section for the 'Vehicle Service Request' object. The table lists the following fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Issue Description	Issue_Description__c	Text(60)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)	✓	
Service Date	Service_Date__c	Date		
Status	Status__c	Picklist		
Vehicle	Vehicle__c	Lookup(Vehicle)	✓	
Vehicle Customer	Vehicle_Customer__c	Lookup(Vehicle Customer)	✓	
Vehicle Service Request Name	Name	Text(80)	✓	

Flow Creation

Auto Assign Dealer



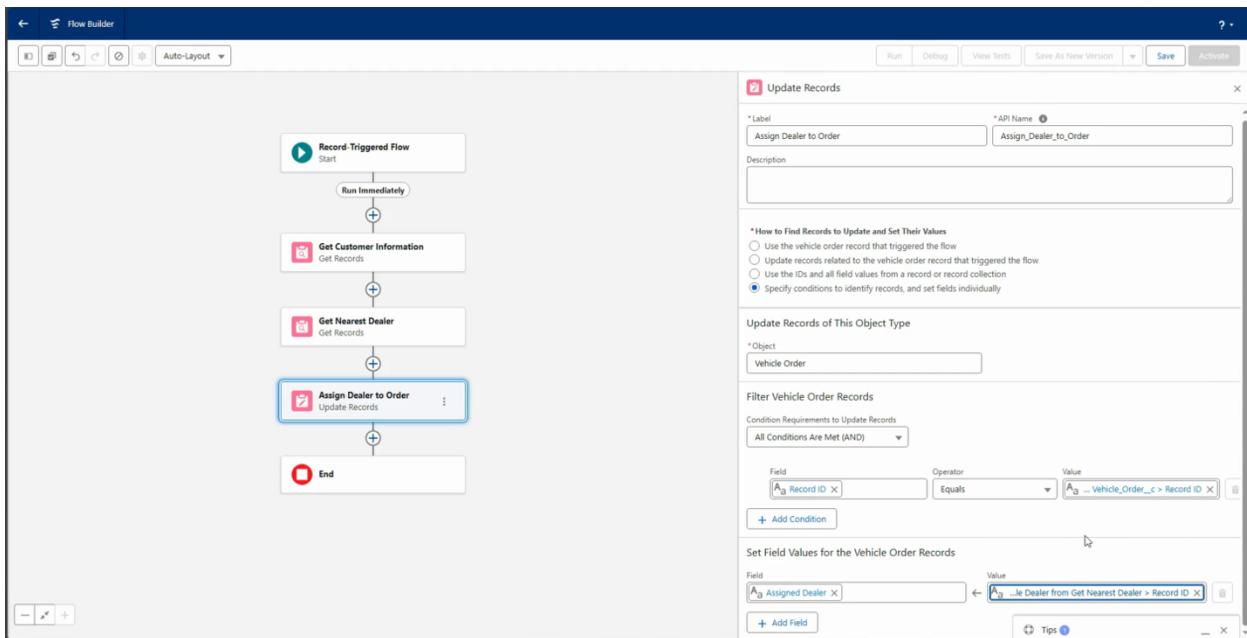
Assigned Dealer Result

The screenshot shows the Salesforce Lightning interface for a "Vehicle Order" record with ID O-0001. The page header includes the organization name "WhatNext Vision Motors" and navigation links for Vehicle Customers, Vehicle Dealers, Vehicle Orders (which is the active tab), Vehicle Service Requests, Vehicle Test Drives, Vehicles, Reports, and More. The main content area displays the "Details" tab for the vehicle order. Key fields shown include:

Field	Value
Vehicle Order Name	O-0001
Owner	Nekeisha Ashlyn Elfa
Vehicle Customer	Keisha
Vehicle	Ford
Order Date	10/28/2025
Status	Pending
Assigned Dealer	JE
Created By	Nekeisha Ashlyn Elfa, 10/27/2025, 6:31 AM
Last Modified By	Nekeisha Ashlyn Elfa, 10/27/2025, 6:31 AM

At the bottom right of the page, there are buttons for "New Contact", "Edit", and "New Opportunity".

Test Drive Reminder



Email Result

The screenshot shows a Gmail inbox with 1,221 messages. An email from "noreply@salesforce.com" is selected. The subject is "Verify your identity in Salesforce". The message body states: "You recently logged in to Salesforce from a browser or app that we don't recognize. Browser: Edge Operating System: Windows 10 Username: keishaelfa16282@agenforce.com". It includes a verification code "335010" and instructions to enter it if the login was unauthorized. Below the message are three buttons: "Sumagot" (left arrow), "Ipasa" (right arrow), and a circular icon with a question mark.

Create Apex and Trigger Batch Jobs

VehicleOrderTriggerhandler

The screenshot shows the Salesforce IDE interface with the code editor open for the class `VehicleOrderTriggerhandler.apc`. The code implements a trigger handler for the `Vehicle_Order__c` object. It contains logic to handle triggers before and after insertions or updates, specifically managing stock levels based on new orders.

```
1 * public class VehicleOrderTriggerHandler {
2
3     public static void handleTrigger(List<Vehicle_Order__c> newOrders, Map<Id, Vehicle_Order__c> oldOrders, Boolean isBefore, Boolean isAfter, Boolean isInsert, Boolean isUpdate) {
4
5         if (isBefore) {
6
7             if (isInsert || isUpdate) {
8
9                 preventOrderIfOutOfStock(newOrders);
10            }
11        }
12    }
13
14
15
16    if (isAfter) {
17
18        if (isInsert || isUpdate) {
19
20            updateStockOnOrderPlacement(newOrders);
21
22        }
23    }
24
25 }
26
27 }
28 }
```

The interface includes tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. Below the code editor is a log viewer with columns for User, Application, Operation, Time, Status, Read, and Size. A filter bar at the bottom allows users to search the log list.

VehicleOrderTrigger

The screenshot shows the Salesforce IDE interface with the code editor open for the trigger `VehicleOrderTrigger.apc`. The trigger is defined on the `Vehicle_Order__c` object, covering events before insert, before update, after insert, and after update. It calls the `handleTrigger` method from the `VehicleOrderTriggerHandler` class.

```
1 * trigger VehicleOrderTrigger on Vehicle_Order__c (before insert,before update, after insert, after update) {
2
3     VehicleOrderTriggerHandler.handleTrigger(Trigger.new, Trigger.oldMap, Trigger.isBefore,Trigger.isAfter, Trigger.isInsert, Trigger.isUpdate);
4
5 }
```

The interface includes tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. Below the code editor is a log viewer with columns for User, Application, Operation, Time, Status, Read, and Size. A filter bar at the bottom allows users to search the log list.

Results:

This screenshot shows a vehicle detail page for a Ford SUV. The vehicle name is Ford, and the owner is Nekeisha Ashlyn Elfa. The stock quantity is 100, and the price is \$80,000. The vehicle is available and was created by Nekeisha Ashlyn Elfa on 10/27/2025 at 6:05 AM.

Vehicle Name	Ford
Vehicle Model	SUV
Stock Quantity	100
Price	\$80,000
Vehicle Dealer	AJ
Status	Available
Created By	Nekeisha Ashlyn Elfa, 10/27/2025, 6:05 AM

This screenshot shows a 'New Vehicle Order' dialog box. The vehicle customer is Keisha, and the vehicle is a Ford. The order date is 10/28/2025, and the status is Confirmed. The assigned dealer is currently set to 'Search Vehicle Dealers...'.

Vehicle Order Name	Owner
Keisha	Nekeisha Ashlyn Elfa

Information

* = Required information

Vehicle Customer: Keisha

Vehicle: Ford

Order Date: 10/28/2025

Status: Confirmed

Assigned Dealer: Search Vehicle Dealers...

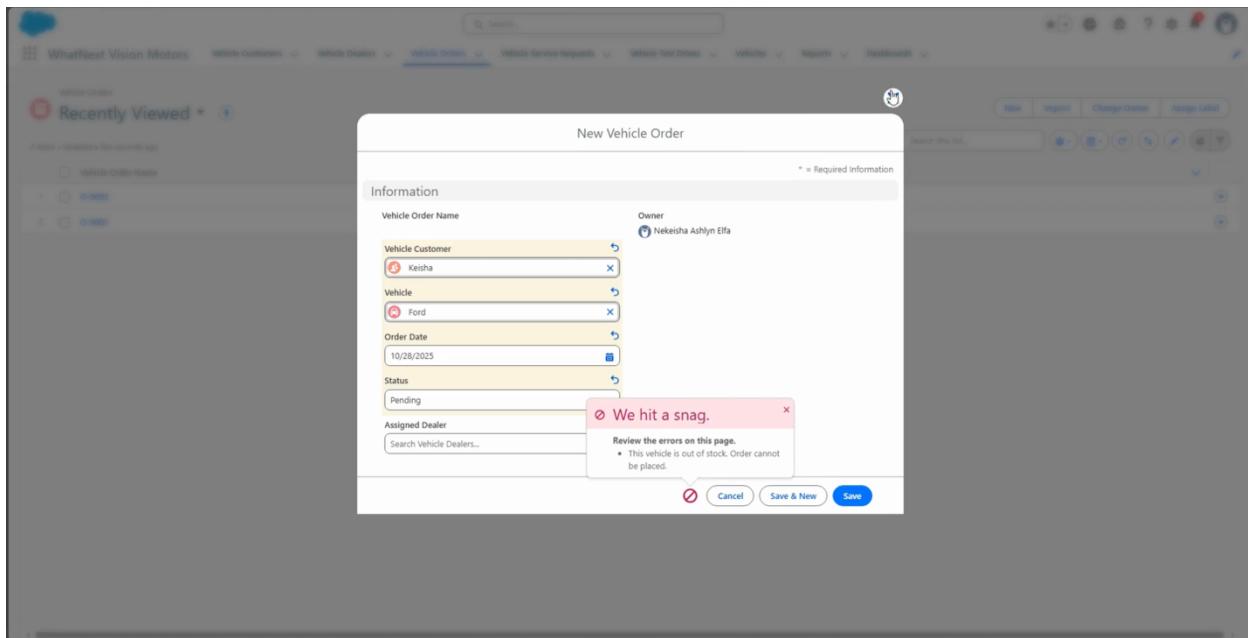
Vehicle Order O-0002 was created.

Vehicle Order Name	Owner
O-0002	Nekeisha Ashlyn Elfa
Vehicle Customer	Keisha
Vehicle	Ford
Order Date	10/28/2025
Status	Confirmed
Assigned Dealer	
Created By	Nekeisha Ashlyn Elfa, 10/27/2025, 6:55 AM
Last Modified By	Nekeisha Ashlyn Elfa, 10/27/2025, 6:55 AM

Vehicles

Vehicle Name	Owner
Ford	Nekeisha Ashlyn Elfa
Vehicle Model	SUV
Stock Quantity	99
Price	\$80,000
Vehicle Dealer	AJ
Status	Available
Created By	Nekeisha Ashlyn Elfa, 10/27/2025, 6:05 AM
Last Modified By	Nekeisha Ashlyn Elfa, 10/27/2025, 6:55 AM

If stock quantity is 0



VehicleOrderBatch

The screenshot shows the Salesforce IDE interface with the VehicleOrderBatch apex class open. The code implements a trigger handler for VehicleOrderTrigger. It includes logic to update orders and vehicles if their respective lists are not empty. A global finish method is also present. Below the code editor is a log viewer showing four entries from the system log.

```
60 }
61 }
62 }
63 }
64 }
65 }
66
67+ if (!ordersToUpdate.isEmpty()) {
68     update ordersToUpdate;
69 }
70
71 }
72
73+ if (!vehiclesToUpdate.isEmpty()) {
74     update vehiclesToUpdate;
75 }
76
77 }
78
79 }
80
81+ global void finish(Database.BatchableContext bc) {
82
83     System.debug('Vehicle order batch job completed.');
84
85 }
86
87 }
```

User	Application	Operation	Time	Status	Read	Size
Neleshka Ashlyn Elfa	Browser	/aura	10/27/2025, 9:56:25 PM	Success	Unread	9.86 KB
Neleshka Ashlyn Elfa	Unknown	common.api.soap.DirectSoap	10/27/2025, 9:56:35 PM	Success	Unread	525 bytes
Neleshka Ashlyn Elfa	Browser	/aura	10/27/2025, 9:55:27 PM	Success	Unread	20.19 KB
Neleshka Ashlyn Elfa	Unknown	common.api.soap.DirectSoap	10/27/2025, 9:55:27 PM	Success	Unread	525 bytes

Filter Click here to filter the log list.

VehicleOrderBatchScheduler

The screenshot shows the Salesforce IDE interface with the VehicleOrderBatchScheduler apex class open. This class implements the Schedulable interface and contains a single execute method that creates a VehicleOrderBatch instance and executes it with a batch size of 50. Below the code editor is a log viewer showing four entries from the system log.

```
1+ global class VehicleOrderBatchScheduler implements Schedulable {
2
3+     global void execute(SchedulableContext sc) {
4
5         VehicleOrderBatch batchJob = new VehicleOrderBatch();
6
7         Database.executeBatch(batchJob, 50); // 50 is the batch size
8
9     }
10
11 }
```

User	Application	Operation	Time	Status	Read	Size
Neleshka Ashlyn Elfa	Browser	/aura	10/27/2025, 9:56:25 PM	Success	Unread	9.86 KB
Neleshka Ashlyn Elfa	Unknown	common.api.soap.DirectSoap	10/27/2025, 9:56:35 PM	Success	Unread	525 bytes
Neleshka Ashlyn Elfa	Browser	/aura	10/27/2025, 9:55:27 PM	Success	Unread	20.19 KB
Neleshka Ashlyn Elfa	Unknown	common.api.soap.DirectSoap	10/27/2025, 9:55:27 PM	Success	Unread	525 bytes

Filter Click here to filter the log list.