

# Phase 3: Data Modeling & Relationships

**Goal:** The goal of Phase 3 is to design a robust data model in Salesforce to manage the GreenHarvest ecosystem. The model connects **Farmers, Crops, Buyers, Orders, Requirements, and Logistics**, ensuring end-to-end visibility of agricultural transactions.

## Standard & Custom Objects

**Standard Objects:** User, Report, Dashboard.

**Custom Objects:**

Farmer\_\_c – Stores farmer details and income.

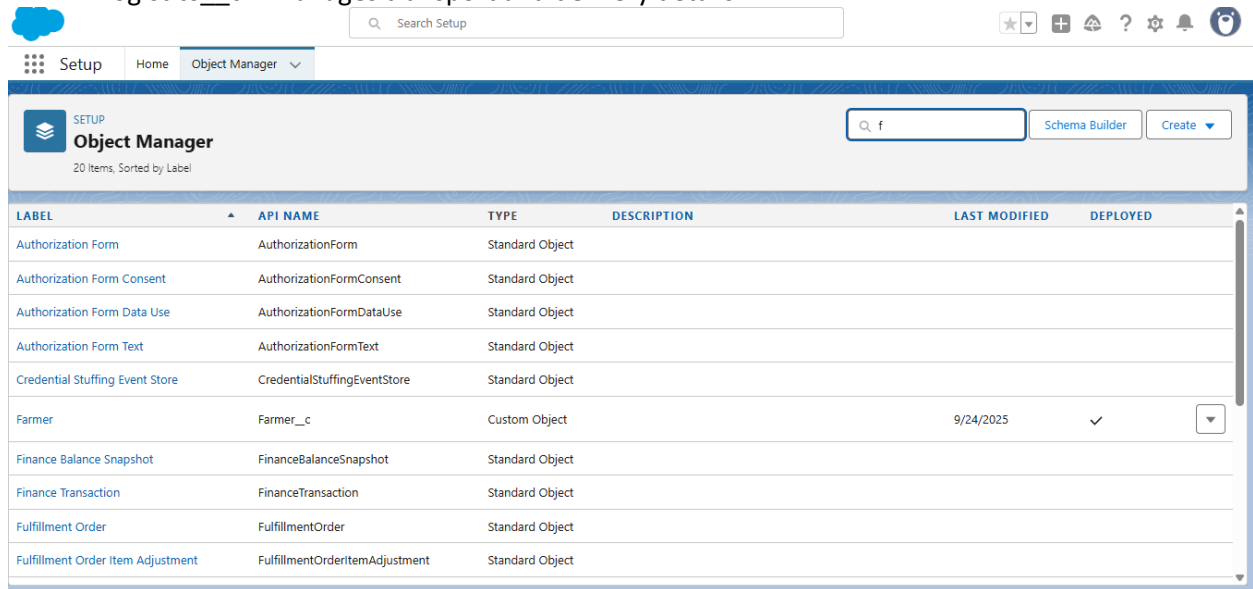
Crop\_\_c – Stores crop information (type, price, farmer).

Buyer\_\_c – Represents crop buyers.

Requirement\_\_c – Captures buyer crop requirements.

Order\_\_c – Acts as junction object linking farmers, buyers, and crops.

Logistics\_\_c – Manages transport and delivery details.



LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Authorization Form	AuthorizationForm	Standard Object			
Authorization Form Consent	AuthorizationFormConsent	Standard Object			
Authorization Form Data Use	AuthorizationFormDataUse	Standard Object			
Authorization Form Text	AuthorizationFormText	Standard Object			
Credential Stuffing Event Store	CredentialStuffingEventStore	Standard Object			
Farmer	Farmer__c	Custom Object		9/24/2025	✓
Finance Balance Snapshot	FinanceBalanceSnapshot	Standard Object			
Finance Transaction	FinanceTransaction	Standard Object			
Fulfillment Order	FulfillmentOrder	Standard Object			
Fulfillment Order Item Adjustment	FulfillmentOrderItemAdjustment	Standard Object			

## Fields

- **Farmer\_\_c:** Contact Number, Address, Total Income.
- **Crop\_\_c:** Crop Type, Price, Farmer (Lookup).
- **Buyer\_\_c:** Company Name, Contact Number.
- **Requirement\_\_c:** Crop Needed (Lookup → Crop), Quantity, Status, Buyer (Master-Detail).
- **Order\_\_c:** Farmer, Buyer, Crop, Logistics (Lookups), Price, Status (Picklist).
- **Logistics\_\_c:** Vehicle No, Transport Type, Contact Number.

Setup
Home
Object Manager

SETUP > OBJECT MANAGER
**Order**

Details
**Fields & Relationships**
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules

Fields & Relationships
12 Items, Sorted by Field Label
New
Deleted Fields
Field Dependencies
Set History Tracking

Farmer	Farmer__c	Lookup(Farmer)	✓	
Last Modified By	LastModifiedById	Lookup(User)		
Logistics Partner	Logistics__c	Lookup(Logistics)	✓	
Order Number	Name	Auto Number	✓	
Owner	OwnerId	Lookup(User,Group)	✓	
Price	Price__c	Currency(18, 0)		
Record Type	RecordTypeId	Record Type	✓	
Status	Status__c	Picklist		

## Record Types

- **Wholesale Order** – For bulk orders (includes fields like Bulk Discount %).
- **Retail Order** – For smaller retail transactions (includes Payment Method, Delivery Address).

SETUP > OBJECT MANAGER
**Order**

Details
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Related Lookup Filters
Restriction Rules

Record Type
**Wholesale Order**

Help for this Page

Back to Custom Object: Order

Use the Edit button to change the properties of this record type. Use the Edit links in the Picklist Values related list to choose the picklist values available for records with this record type.

Record Type Label	Wholesale Order	Active	✓
Record Type Name	Wholesale_Order		
Namespace Prefix			
Description			
Created By	Hima bindu k.	9/25/2025, 7:23 PM	Modified By Hima bindu k. 9/25/2025, 7:23 PM

Picklists Available for Editing
Picklists Available for Editing Help

Action	Field	Modified Date
Edit	Status	9/25/2025, 7:23 PM



## Compact Layouts

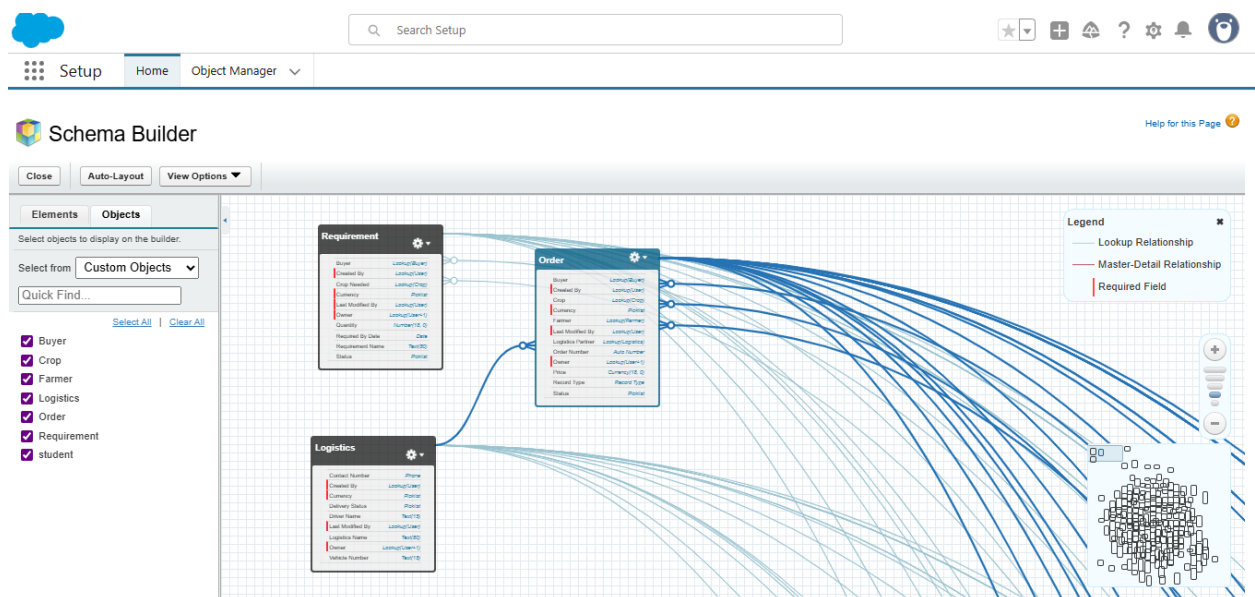
- **Order Compact Layout:** Order Name, Farmer, Buyer, Crop, Status, Price.
- **Farmer Compact Layout:** Farmer Name, Contact No, Village, Total Income.
- **Crop Compact Layout:** Crop Name, Type, Price, Farmer.

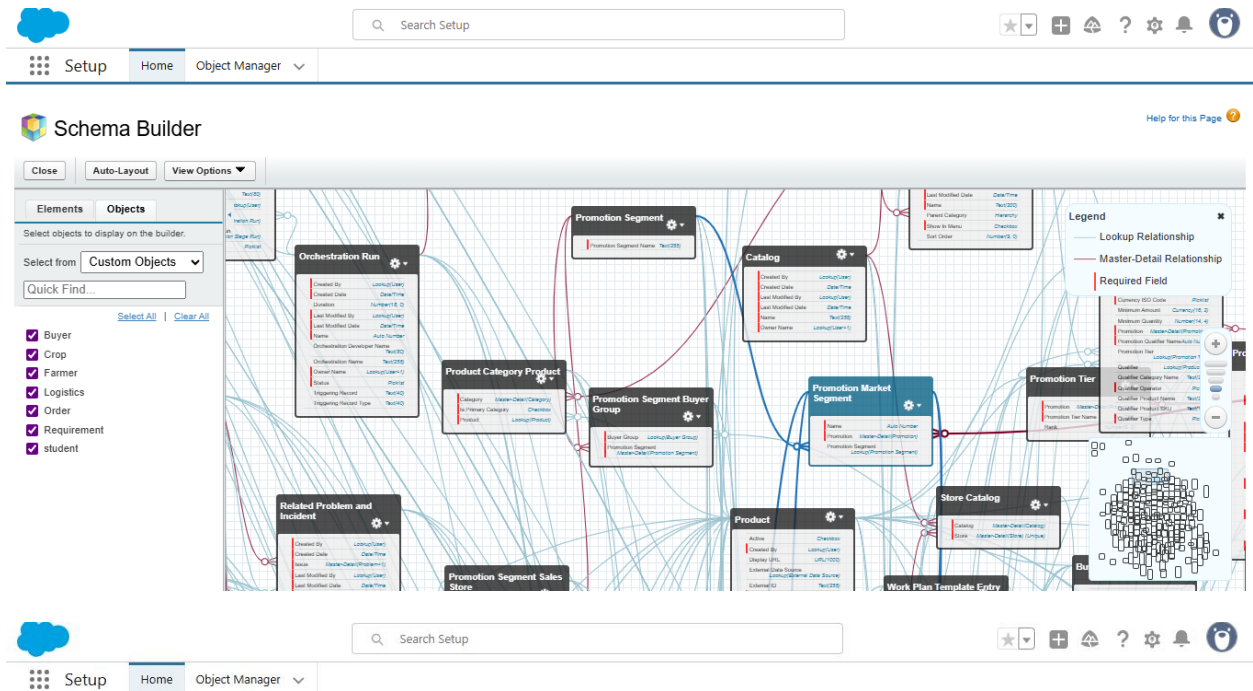
The screenshot shows the 'Order Compact Layouts' page in Salesforce. The left sidebar contains navigation links: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, **Compact Layouts**, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Restriction Rules. The main content area is titled 'Order Compact Layouts' and 'Compact Layout Assignment'. It includes a 'Primary Compact Layout' section with a description and a 'Record Type Overrides' table. The table lists record types and their assigned compact layouts.

Record Types	Compact Layouts
Retail Order	Inherit from Primary (System Default)
Wholesale Order	Inherit from Primary (System Default)

## Schema Builder

The schema was validated using Salesforce Schema Builder. Relationships between all objects were displayed to confirm correct connectivity.





## Relationships

Farmer ↔ Crop → Lookup (Crop belongs to a Farmer).

Buyer ↔ Requirement → Master-Detail (Requirement owned by Buyer).

Order ↔ Farmer, Buyer, Crop → Lookups (junction object).

Order ↔ Logistics → Lookup.

User (Standard) → Hierarchical (role-based visibility).

