

InventoSync

Salesforce Project: Real-Time Inventory and Order Management System

Real-Time Inventory and Order Management: For a small e-commerce or retail business, build a system to manage products, orders and inventory. When a customer places an order, the system should update the available stock count instantly to prevent overselling. This can be achieved with a combination of Flows and Apex Triggers that run on order creation. You could also have a dashboard for the business owner that reflects sales and inventory levels in real-time.

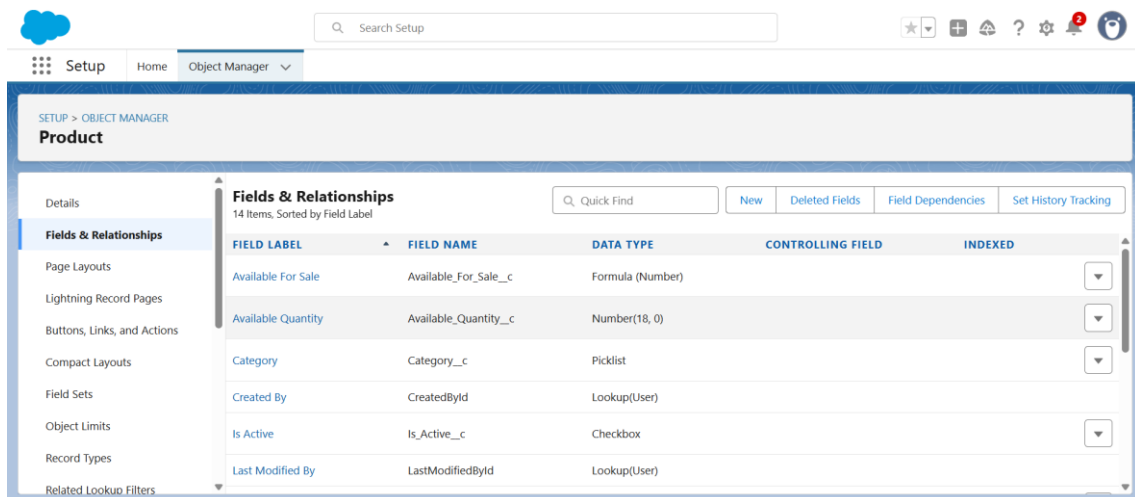
Phase 3: Data Modeling & Relationships

- **Create Custom Objects:**

- Product__c
- Customer__c
- Sales_Order__c
- Sales_Order_Item__c

- **Fields:**

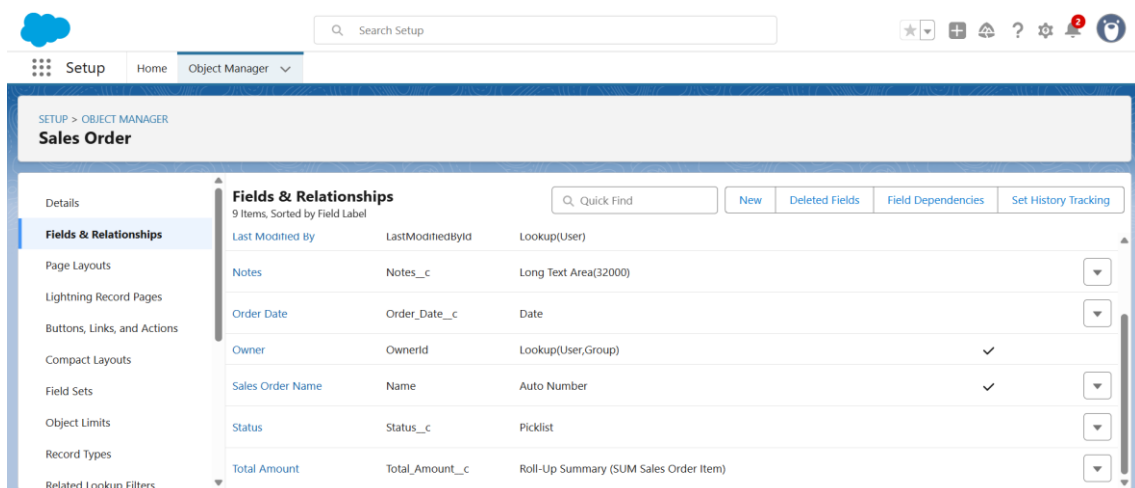
- **Product: Name, Price, Available_Quantity, Reorder_Level.**



The screenshot shows the Salesforce Setup interface for the 'Product' object. The 'Fields & Relationships' section is active, displaying a list of 14 fields. The fields are sorted by Field Label. The table below represents the data shown in the screenshot:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Available For Sale	Available_For_Sale__c	Formula (Number)		
Available Quantity	Available_Quantity__c	Number(18, 0)		
Category	Category__c	Picklist		
Created By	CreatedById	Lookup(User)		
Is Active	Is_Active__c	Checkbox		
Last Modified By	LastModifiedById	Lookup(User)		

- **Sales Order: Customer (Lookup), Order Date, Status, Total Amount.**



The screenshot shows the Salesforce Setup interface for the 'Sales Order' object. The 'Fields & Relationships' section is active, displaying a list of 9 fields. The fields are sorted by Field Label. The table below represents the data shown in the screenshot:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Last Modified By	LastModifiedById	Lookup(User)		
Notes	Notes__c	Long Text Area(32000)		
Order Date	Order_Date__c	Date		
Owner	OwnerId	Lookup(User,Group)		✓
Sales Order Name	Name	Auto Number		✓
Status	Status__c	Picklist		
Total Amount	Total_Amount__c	Roll-Up Summary (SUM Sales Order Item)		

- **Sales Order Item: Order (Master-Detail), Product (Lookup), Quantity, Unit Price, Subtotal.**

- **Relationships:**
 - Customer → Sales Order (Lookup/Master).
 - Sales Order → Sales Order Item (Master-Detail).
 - Product → Sales Order Item (Lookup).

The screenshot shows the Salesforce Setup interface. At the top, there's a navigation bar with 'Setup', 'Home', and 'Object Manager'. Below this, the breadcrumb trail reads 'SETUP > OBJECT MANAGER' and the page title is 'Sales Order Item'. The left sidebar contains a menu with options like 'Details', 'Fields & Relationships' (which is selected), 'Page Layouts', 'Lightning Record Pages', 'Buttons, Links, and Actions', 'Compact Layouts', 'Field Sets', 'Object Limits', 'Record Types', and 'Related Lookup Filters'. The main content area is titled 'Fields & Relationships' and shows a list of 10 items, sorted by Field Label. The list includes fields like 'Order', 'Product', 'Quantity', 'Sales Order', 'Sales Order Item Name', and 'Status', each with its API name, data type, and relationship information. A 'Quick Find' search bar and buttons for 'New', 'Deleted Fields', 'Field Dependencies', and 'Set History Tracking' are also visible.

Field Label	API Name	Relationship	Field Type	Field Length
Order	Order__c	Master-Detail(Sales Order)	✓	
Product	Product__c	Lookup(Product)	✓	
Quantity	Quantity__c	Number(18, 0)		
Sales Order	Sales_Order__c	Lookup(Sales Order)	✓	
Sales Order Item Name	Name	Text(80)	✓	
Status	Status__c	Picklist		