Phase 3: Data Modeling & Relationships

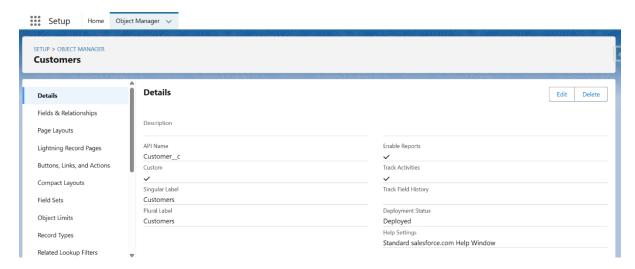
Objective:

Design a robust data structure for the Smart Retail Customer Insights Tracker to store customer, product, and purchase information. This ensures proper relationships for automation, reporting, and UI features in later phases.

1.Customer Object (Customer__c)

Purpose:

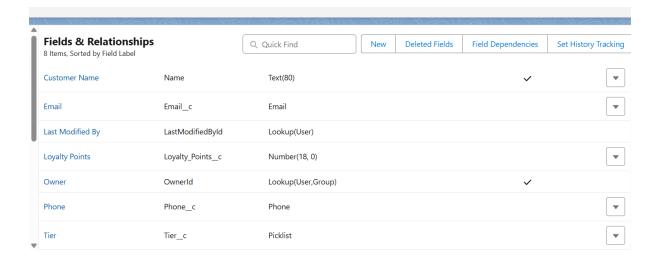
Stores all essential customer information, enabling tracking of purchases and loyalty points.



Fields:

Created custom fields such as email, phone, tier and loyality points in the customer custom object.

Field Name	Data Type	Description
Name	Text	Customer full name
Email	Email	Customer email address
Phone	Phone	Customer contact number
Tier	Picklist	Customer category (Silver, Gold, Platinum)
Loyalty Points	Number	Total points accumulated by the customer



Relationships:

Acts as the parent in the Purchase relationship.

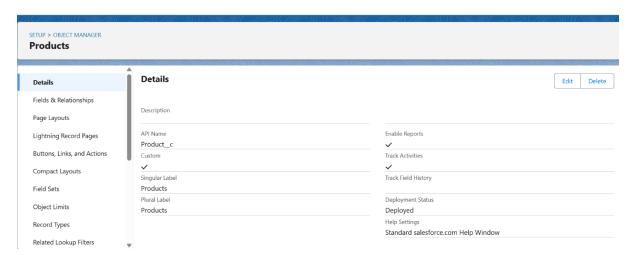
Outcome:

• Supports customer tracking and loyalty points automation.

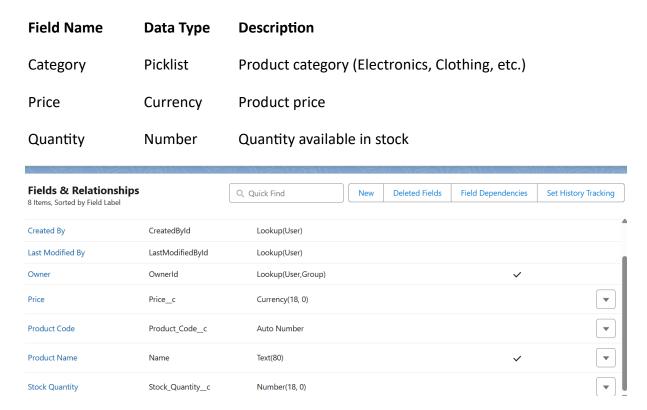
2. Product Object (Product__c)

Purpose:

Stores details of all products available for purchase.



Field Name	Data Type	Description
Name	Text	Product name
Product Code	Text	Unique code identifying the product



Relationships:

Acts as the parent in the Purchase relationship.

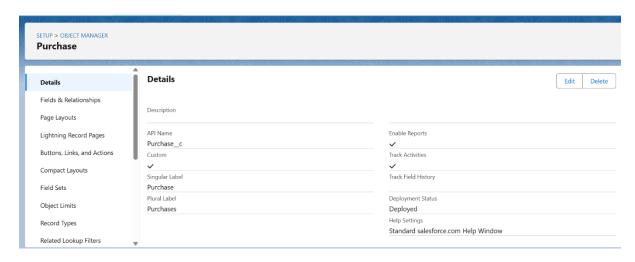
Outcome:

Supports linking products to purchases, tracking stock, and reporting.

3. Purchase Object (Purchase__c)

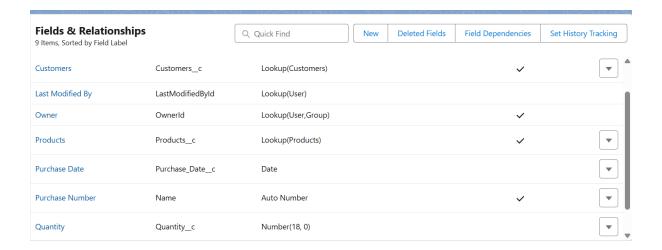
Purpose:

Records each purchase transaction, linking Customers to Products.



Fields:

Field Name	Data Type	Description
Customer Lookup	Lookup	Links purchase to Customerc
Product Lookup	Lookup	Links purchase to Productc
Quantity	Number	Quantity purchased
Total Amount	Formula	Quantity × Product Price
Loyalty Points	Number	Points earned from this purchase



Relationships:

- Lookup to Customer
- Lookup to Product

Outcome:

Tracks purchases accurately and supports automation.