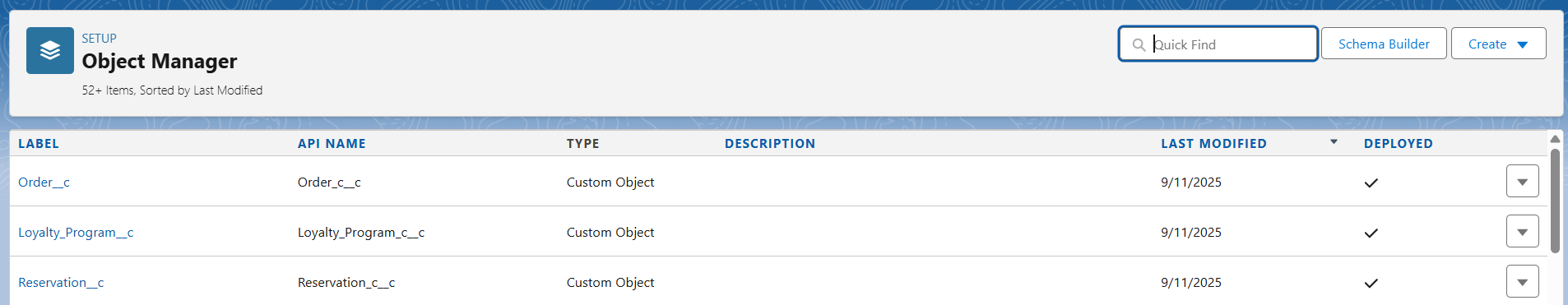
**PHASE 3 - Data Modeling & Relationships**

**🔹Standard & Custom Objects**

**The data model utilizes both standard and custom objects to create a robust structure for the application.**

* **Standard Objects:**
  + **Contact: Represents the customer placing orders and making reservations.**
* **Custom Objects: Three new custom objects form the core of the application:**
  + **Order\_\_c: Tracks all customer transactions.**
  + **Reservation\_\_c: Manages table reservations.**
  + **Loyalty\_Program\_\_c: Holds customer loyalty point information.**

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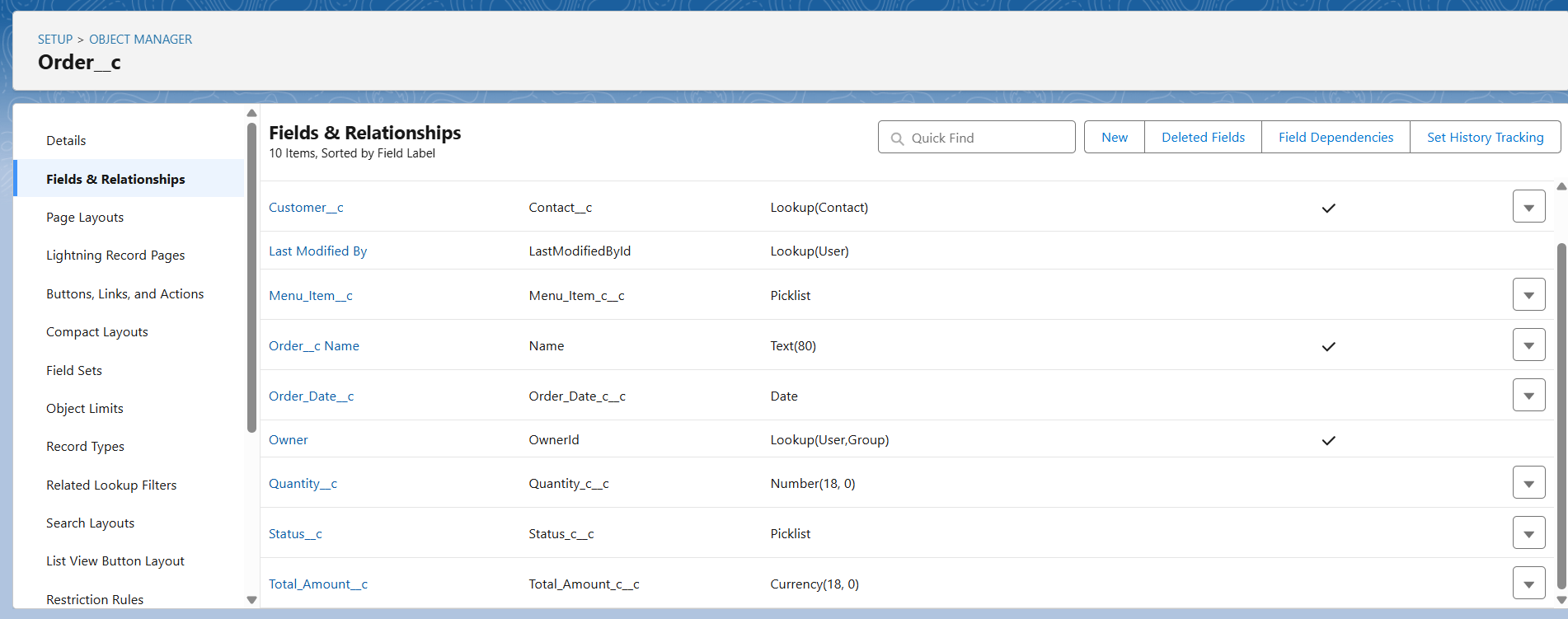
**🔹Fields & Relationships**

**Custom fields capture the required business data, and relationships link the objects together.**

* **Relationships:**
  + **Customer\_\_c (Lookup to Contact): All three custom objects (Order\_\_c, Reservation\_\_c, Loyalty\_Program\_\_c) have a lookup relationship to the Contact object. This creates a customer-centric model where all activities are tied back to a single contact record. Lookup was chosen over Master-Detail to allow these records to exist independently of a Contact if needed in the future.**
* **Custom Fields:**

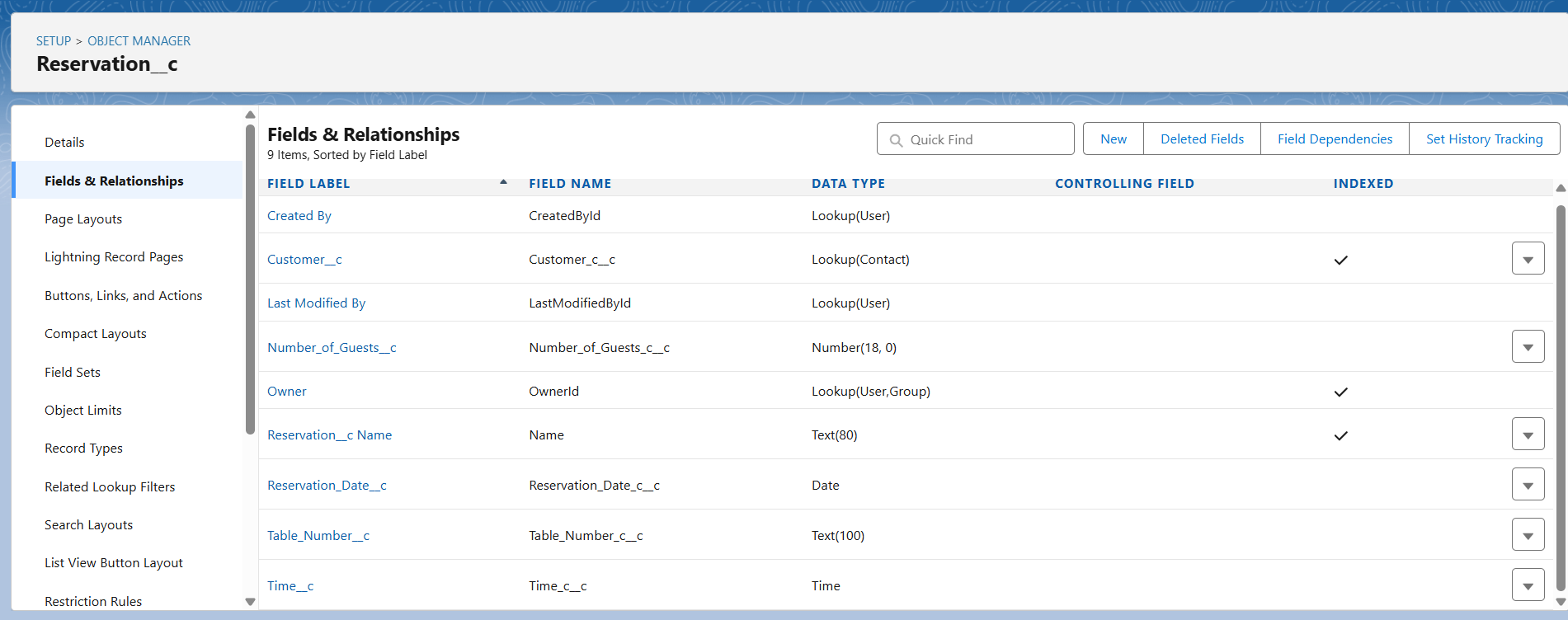
**On Order\_\_c:**

* **Customer\_\_c (Lookup to Contact)**
* **Order\_Date\_\_c (Date)**
* **Menu\_Item\_\_c (Picklist)**
* **Quantity\_\_c (Number)**
* **Total\_Amount\_\_c (Currency)**
* **Status\_\_c (Picklist: 'Pending', 'Complete', 'Cancelled')**

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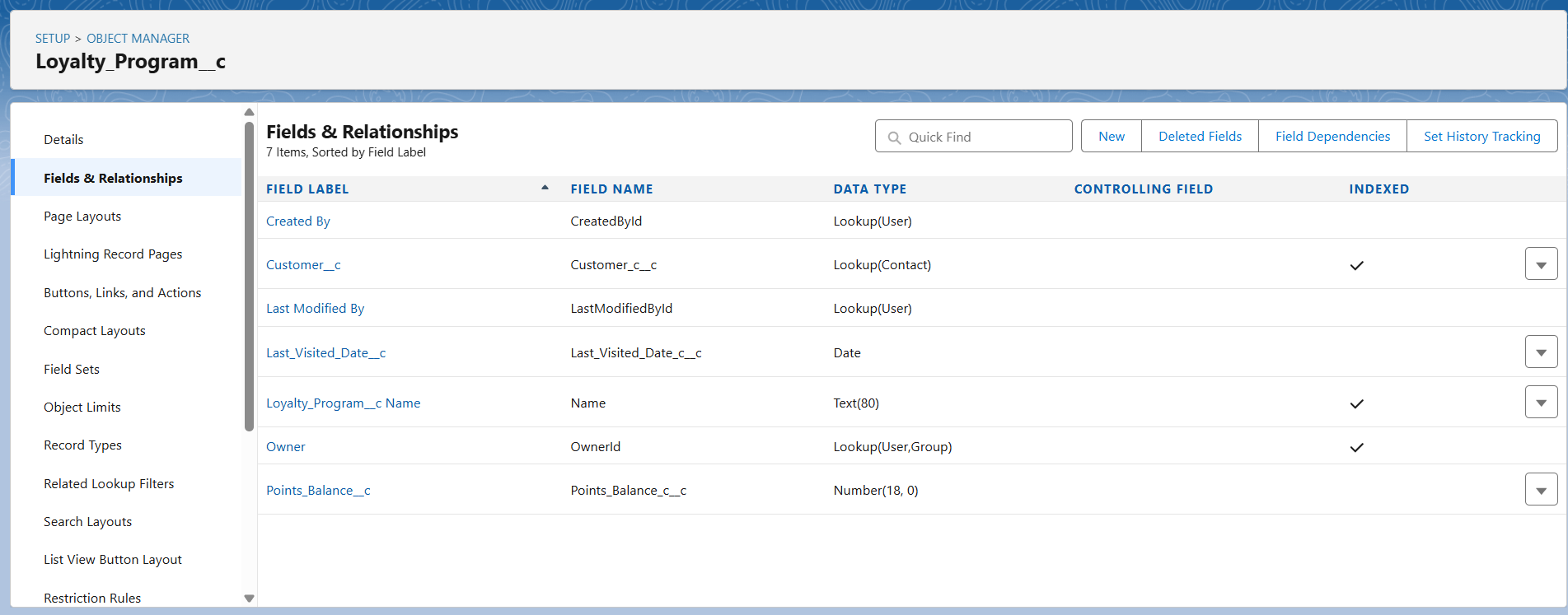
**On Reservation\_\_c:**

* **Customer\_\_c (Lookup to Contact)**
* **Reservation\_Date\_\_c (Date)**
* **Time\_c (Time)**
* **Number\_of\_Guests\_\_c (Number)**
* **Table\_Number\_\_c (Text)**

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**On Loyalty\_Program\_\_c:**

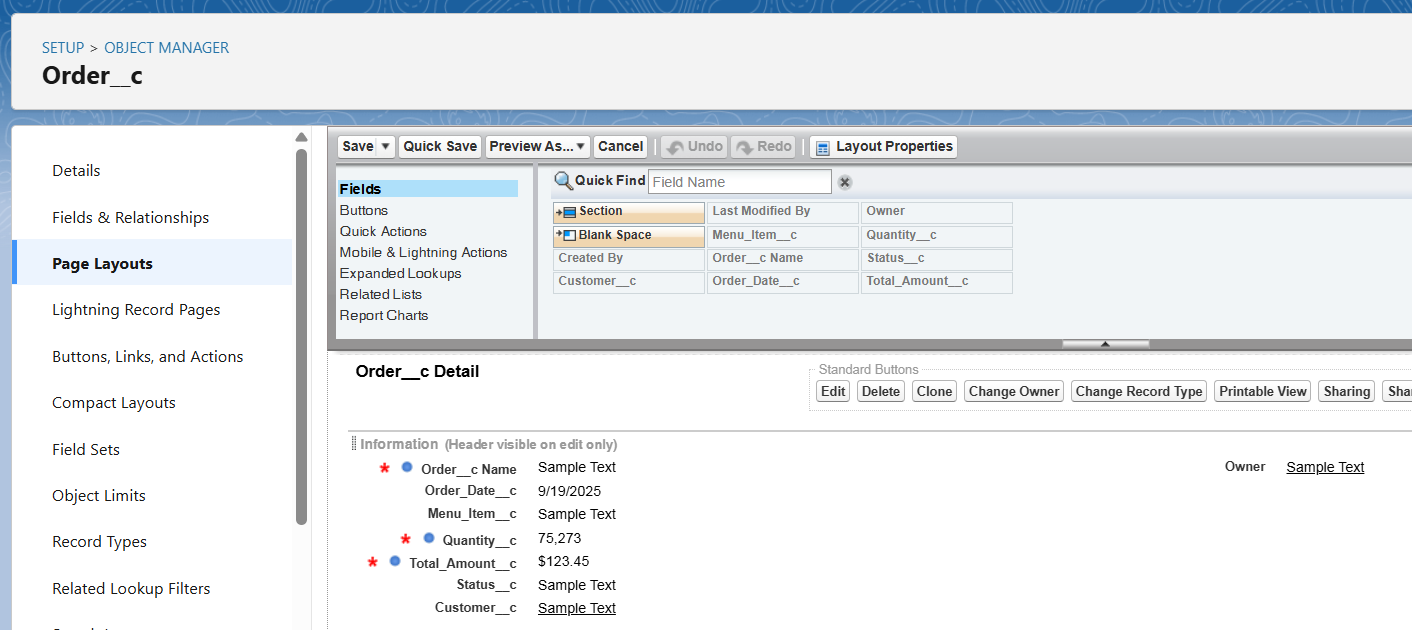
* **Customer\_\_c (Lookup to Contact)**
* **Points\_Balance\_\_c (Number, Default Value: 0)**
* **Last\_Visited\_Date\_\_c (Date)**

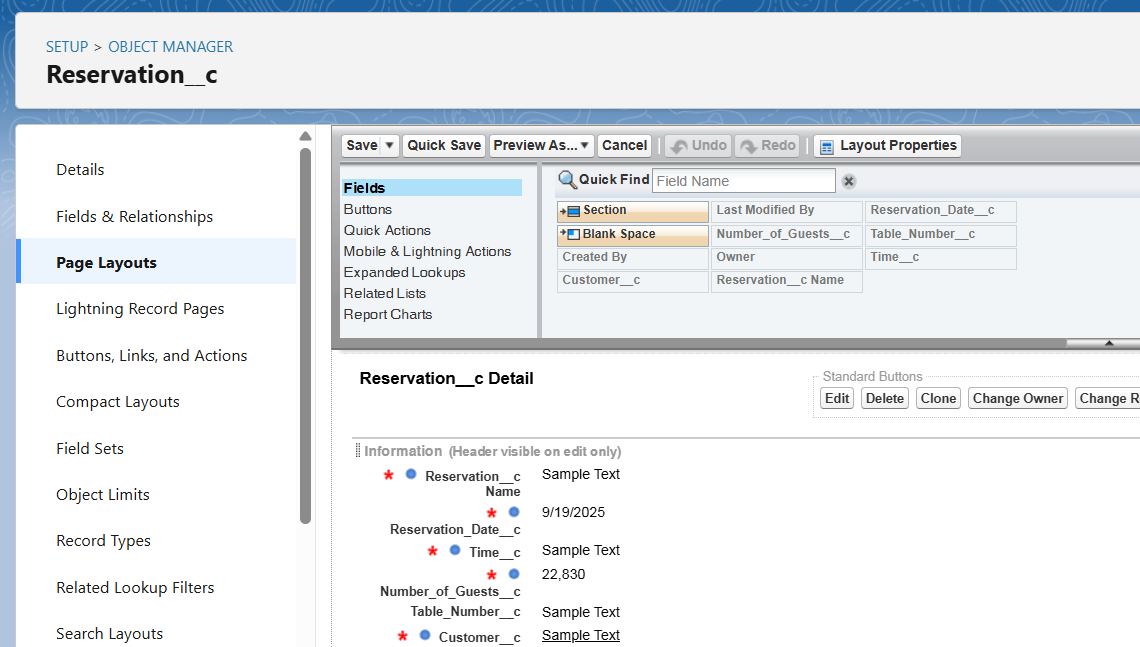


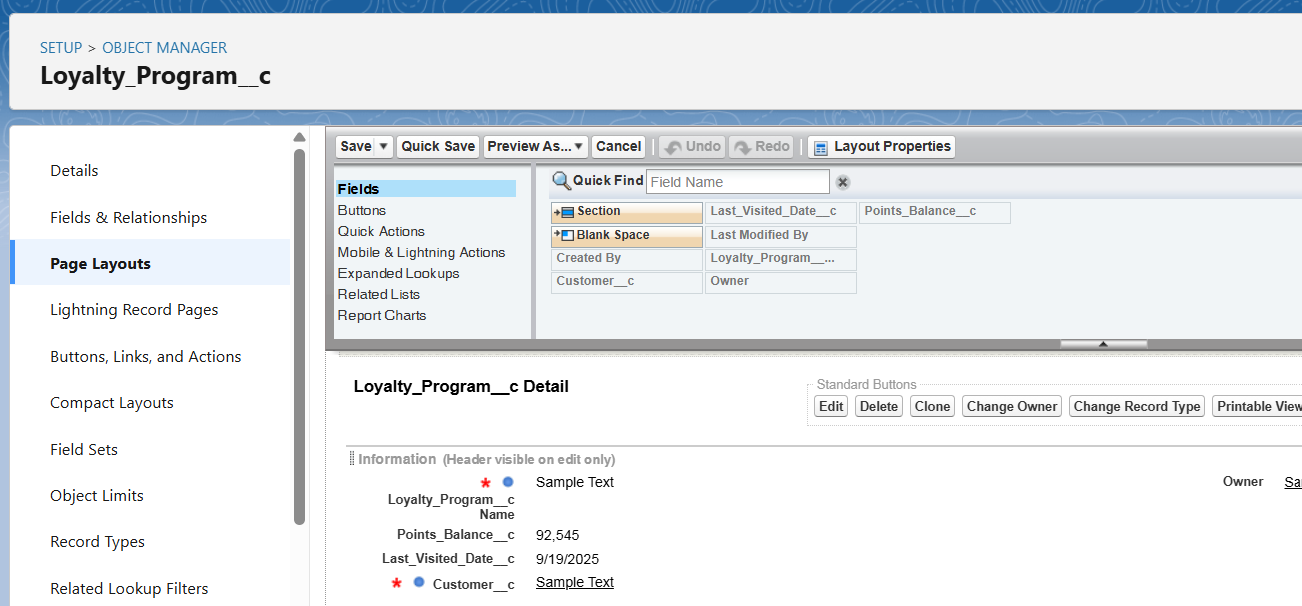
**🔹User Interface & Layouts**

**The on-screen display for records is controlled by various layout types.**

* **Page Layouts: A unique page layout for each custom object (Order, Reservation, Loyalty Program) will be created to organize fields and related lists for staff and managers.**

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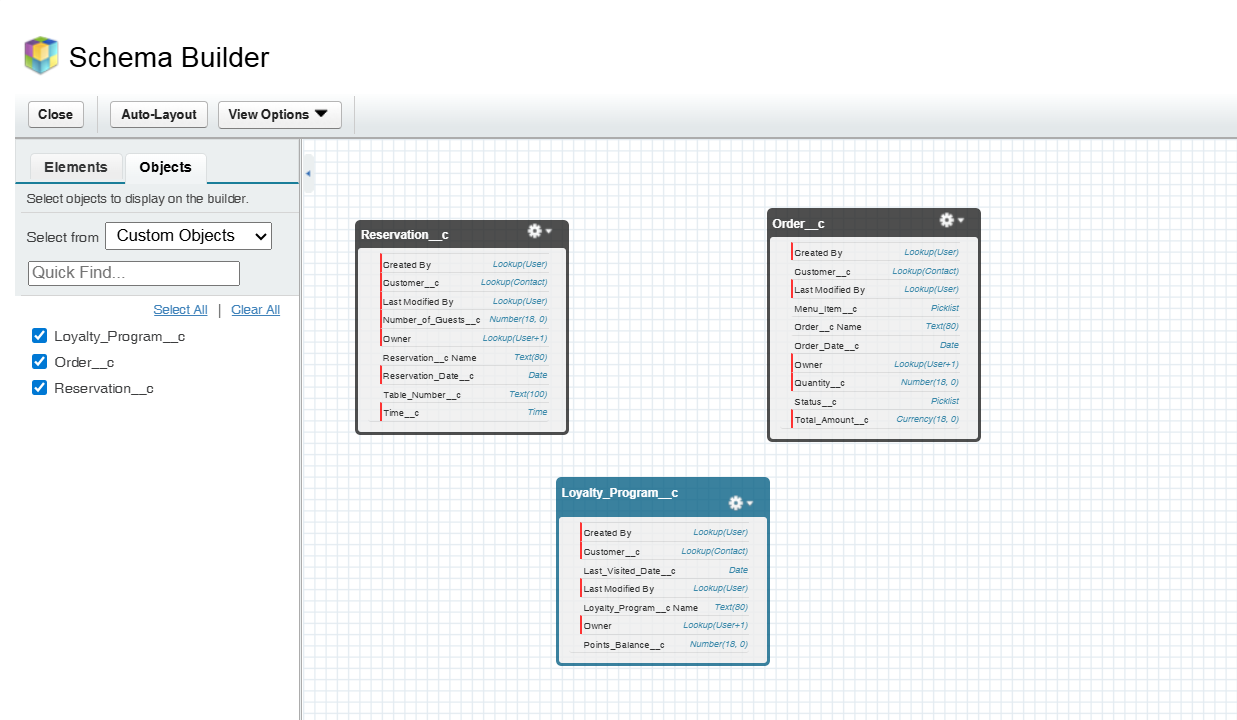
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* **Compact Layouts: A compact layout for each object will be configured to display key fields in the record highlights panel and in the Salesforce mobile app. For example, the Order\_\_c compact layout will show the Status\_\_c and Total\_Amount\_\_c.**
* **Record Types: Initially, a single record type will be used for each object. In a future enhancement, we could create record types on the Order\_\_c object like "Dine-In Order" and "Takeaway Order" to assign different page layouts or picklist values.**

**🔹Data Architecture**

* **Schema Builder: The Schema Builder tool will be used to visualize the complete data model, showing the Contact object at the center with lookups from Order\_\_c, Reservation\_\_c, and Loyalty\_Program\_\_c.**

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* **Junction Objects: A junction object is not required for the current design. However, if an Order\_\_c needed to contain multiple Menu\_Item\_\_c records, a junction object called Order\_Line\_Item\_\_c would be created with master-detail relationships to both Order\_\_c and a new Menu\_Item\_\_c custom object.**