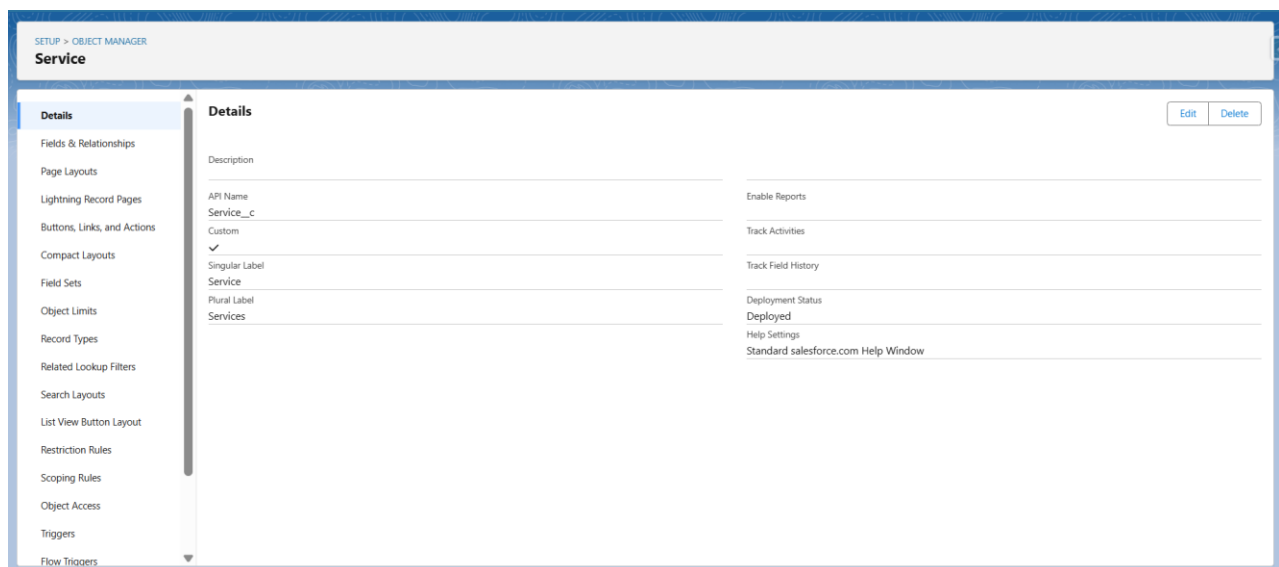


Report: Completion of Phase 3 - Data Modeling & Relationships

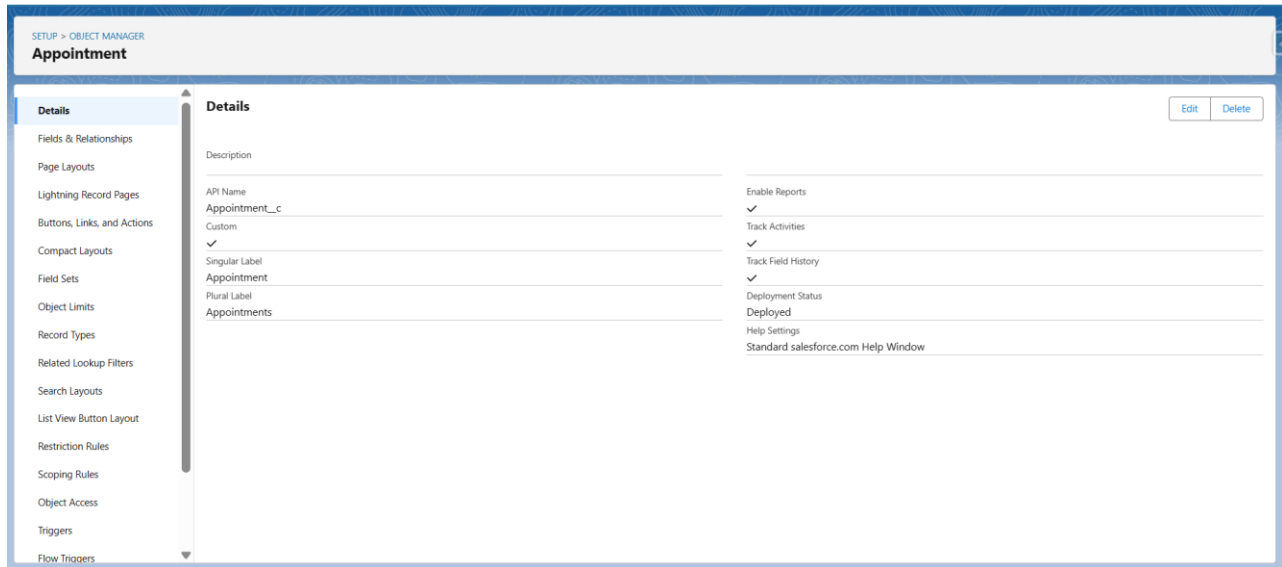
This document provides a detailed, step-by-step summary of all data modeling tasks completed for Phase 3 of the Salon Management System project. The objective of this phase was to build the foundational data structure, or "skeleton," of the application.

1. Standard & Custom Objects

- **Purpose:** To establish the core "filing cabinets" for our data. We used Standard Objects for common business entities (people and employees) and created Custom Objects for salon-specific information (services and bookings).
- **Steps Followed:**
 1. **Standard Objects Utilized:** The standard `Contact` object was designated to store client information, and the standard `User` object was used for salon staff (Stylists).
 2. **Custom Object `Service__c` Created:**
 - Navigated to `Setup > Object Manager > Create > Custom Object`.
 - Set the **Label** to `Service` and **Plural Label** to `Services`.
 - Changed the standard "Name" field to an **Auto-Number** with the format `SERV-{0000}`.
 - Enabled the option to "**Launch New Custom Tab Wizard**" and selected the "Scissors" icon for the tab.

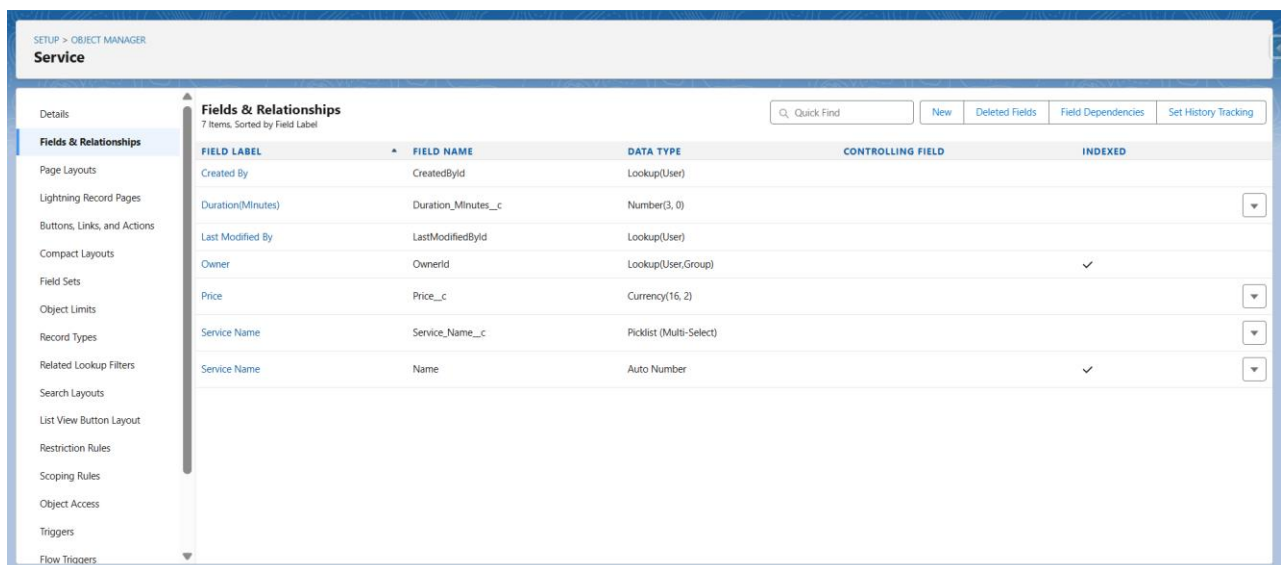


3. **Custom Object `Appointment__c` Created:**
 - Navigated to `Setup > Object Manager > Create > Custom Object`.
 - Set the **Label** to `Appointment` and **Plural Label** to `Appointments`.
 - Set the standard "Name" field to an **Auto-Number** with the format `APP-{0000}`.
 - Enabled the option to "**Launch New Custom Tab Wizard**" and selected the "Calendar" icon for the tab.



2. Fields & Relationships

- **Purpose:** To define the specific pieces of information (the "fields" in the filing cabinet) for each object and to create the crucial links (relationships) between them.
- **Steps Followed:**
 1. **On the `Service__c` Object:**
 - Created a new `Picklist` field named **Service Name** with values like "Men's Haircut," "Full Color," etc. This was made **Required**.
 - Created a new `Currency` field named **Price**.
 - Created a new `Number` field named **Duration (Minutes)**.



2. **On the `Appointment__c` Object:**
 - Created a **Lookup Relationship** to the `Contact` object, with the Field Label **client**. This field was made **Required**.

- Created a **Lookup Relationship** to the `Service` object, with the Field Label **Service**. This field was made **Required**.
- Created a **Lookup Relationship** to the `User` object, with the Field Label **stylist**. This field was made **Required**.
- Created a new `Date/Time` field named **Appointment Date & Time**.
- Created a new `Picklist` field named **status** with the values: Scheduled, Completed, Cancelled.

SETUP > OBJECT MANAGER
Appointment

Details

Fields & Relationships
12 Items. Sorted by Field Label

Q Quick Find New Deleted Fields Field Dependencies Set History Tracking

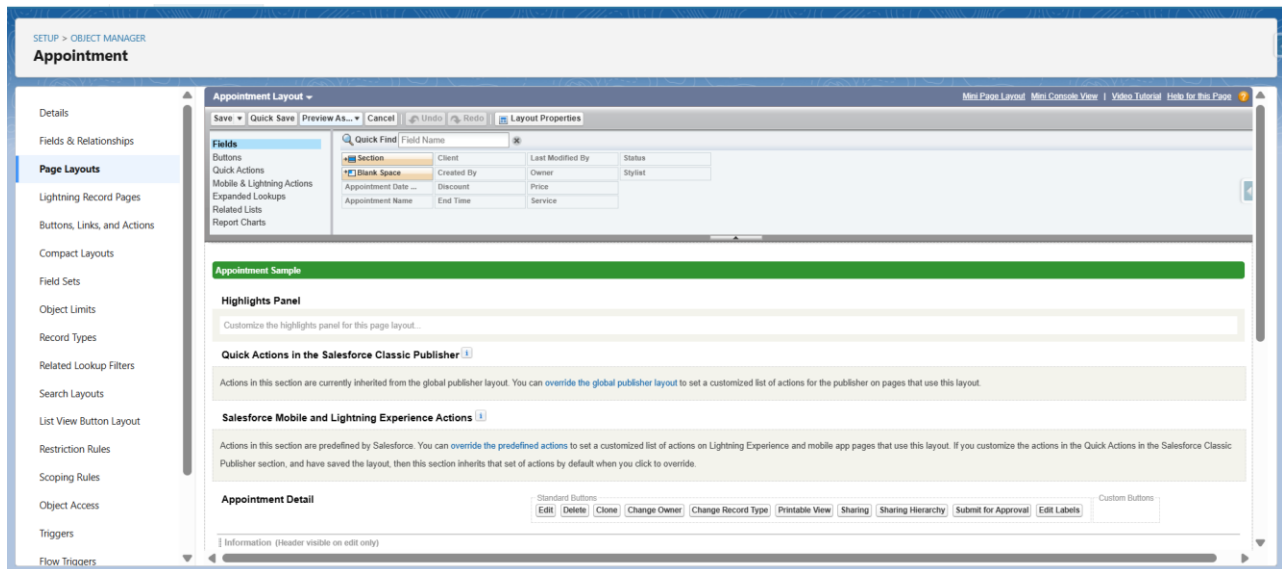
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Appointment Date & Time	Appointment_Date_Time__c	Date/Time		
Appointment Name	Name	Auto Number		✓
Client	Client__c	Lookup(Contact)		✓
Created By	CreatedById	Lookup(User)		
Discount	Discount__c	Percent(2, 0)		
End Time	End_Time__c	Formula (Date/Time)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Price	Price__c	Formula (Currency)		
Service	Service__c	Lookup(Service)		✓
Status	Status__c	Picklist		
Stylist	Stylist__c	Lookup(User)		✓

3. Record Types

- **Purpose:** Record Types are used to create different business processes and page layouts for the same object.
- **Steps Followed:** No Record Types were created in this phase. The current business process is standardized for all appointments, so a single page layout is sufficient. This feature could be used in the future to create different types of appointments (e.g., "In-Salon" vs. "Home Visit").

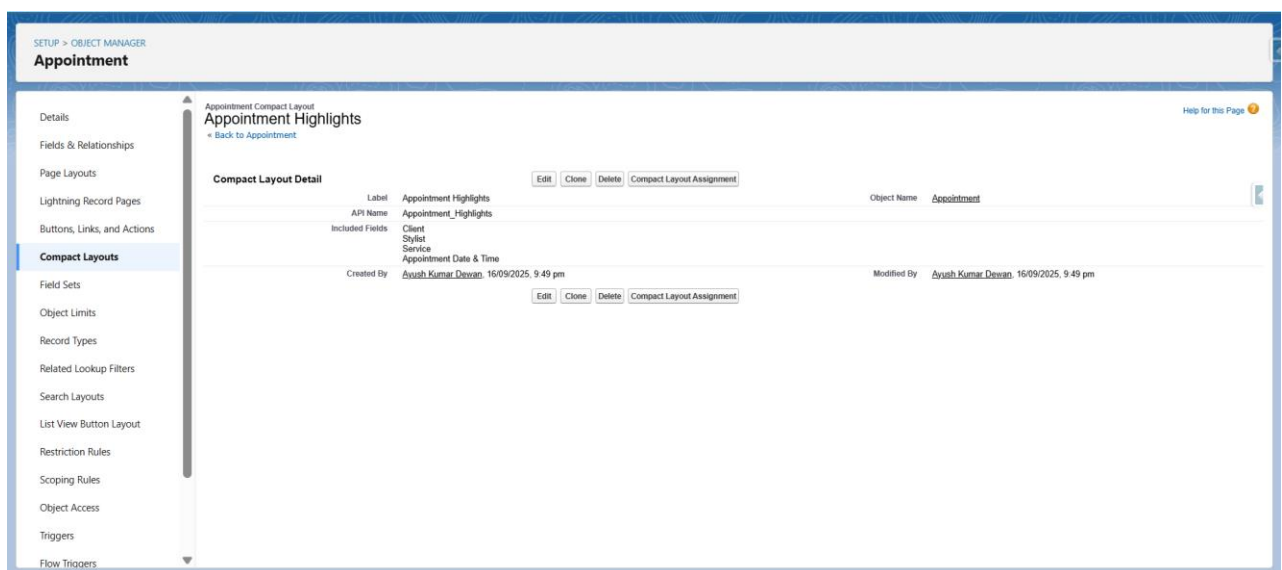
4. Page Layouts

- **Purpose:** To organize the fields, buttons, and related lists on a record's detail page for a clean and efficient user experience.
- **Steps Followed:**
 1. Navigated to Setup > Object Manager > Appointment > Page Layouts.
 2. Clicked **Edit** next to the "Appointment Layout."
 3. In the layout editor, dragged and dropped the key fields (`Client`, `Stylist`, `Service`, `Appointment Date & Time`, and `Status`) to the top of the "Information" section for high visibility.
 4. Removed unnecessary fields (like the default `Owner` field) from the layout by dragging them back to the top panel.
 5. Clicked **Save**.



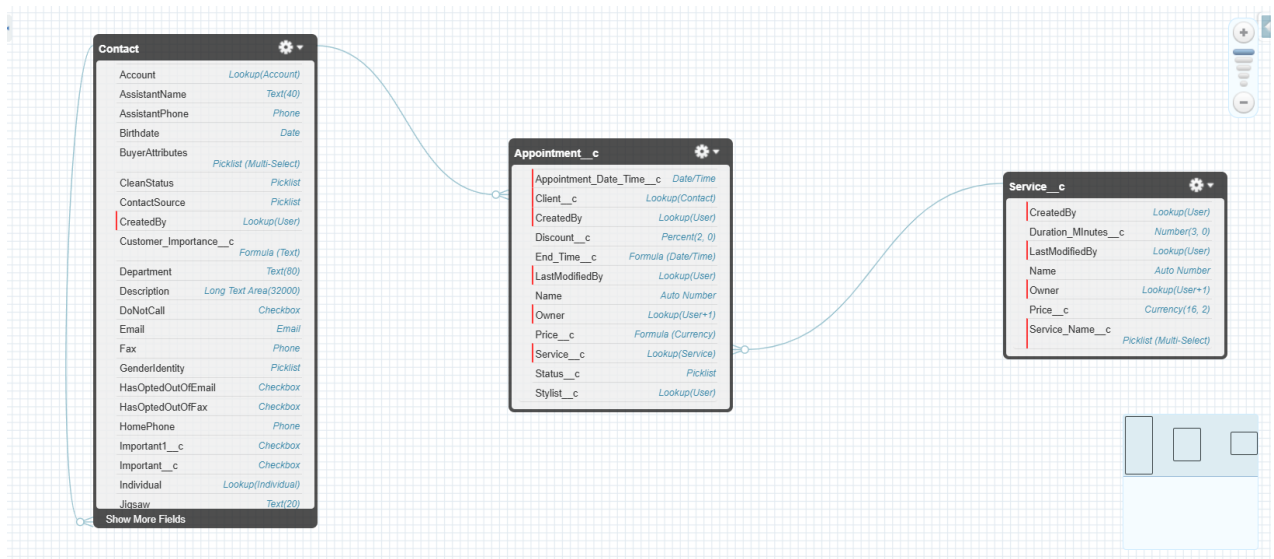
5. Compact Layouts

- **Purpose:** To control which key fields appear in the "at-a-glance" highlights panel at the top of a record page and in the Salesforce mobile app.
- **Steps Followed:**
 1. Navigated to Setup > Object Manager > Appointment > Compact Layouts.
 2. Clicked **New** and created a layout named Appointment Highlights.
 3. Added the Client, Stylist, Service, and Appointment Date & Time fields to the "Selected Fields" list.
 4. Clicked **Save**.
 5. Clicked the **Compact Layout Assignment** button and assigned the new Appointment Highlights layout as the Primary Compact Layout for the object.



6. Schema Builder

- **Purpose:** To visually review the entire data model and confirm that all objects and relationships have been built correctly.
- **Steps Followed:**
 1. Navigated to Setup > Schema Builder.
 2. Cleared the canvas of all default objects.
 3. Selected the four key objects for this project: Contact, User, Service, and Appointment.
 4. Used the **Auto-Layout** feature to generate a clean, visual diagram of the data model, confirming that the Appointment object correctly links the other three.



7. Lookup vs Master-Detail vs Hierarchical Relationships

- **Purpose:** To choose the correct type of relationship for our business needs, ensuring the right behavior for data deletion and security.
- **Steps Followed:**
 - **Lookup Relationships** were intentionally chosen to connect Appointments to Contacts, Services, and Users. This ensures that if a client or service is ever deleted, the old appointment records are kept for historical reporting, which is a key business requirement.
 - A **Hierarchical Relationship** was not directly created in this phase, but the concept is used on the User object (via the Manager field), which is driven by the Role Hierarchy built in Phase 2.

SETUP > OBJECT MANAGER

Appointment

Details

Fields & Relationships
12 Items. Sorted by Field Label

Quick Find: New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Appointment Date & Time	Appointment_Date_Time__c	Date/Time		<input type="checkbox"/>
Appointment Name	Name	Auto Number		<input checked="" type="checkbox"/>
Client	Client__c	Lookup(Contact)		<input checked="" type="checkbox"/>
Created By	CreatedById	Lookup(User)		<input type="checkbox"/>
Discount	Discount__c	Percent(2, 0)		<input type="checkbox"/>
End Time	End_Time__c	Formula (Date/Time)		<input type="checkbox"/>
Last Modified By	LastModifiedById	Lookup(User)		<input type="checkbox"/>
Owner	OwnerId	Lookup(User,Group)		<input checked="" type="checkbox"/>
Price	Price__c	Formula (Currency)		<input type="checkbox"/>
Service	Service__c	Lookup(Service)		<input checked="" type="checkbox"/>
Status	Status__c	Picklist		<input type="checkbox"/>
Stylist	Stylist__c	Lookup(User)		<input checked="" type="checkbox"/>

8. Junction Objects

- **Purpose:** Junction Objects are used to create a many-to-many relationship between two objects.
- **Steps Followed:** No Junction Objects were created. The current business model requires one primary service per appointment, which is a one-to-many relationship (one service can be on many appointments). This feature could be used in the future to allow for multiple "add-on" services for a single appointment.

9. External Objects

- **Purpose:** External Objects are used to view and interact with data from an external system without importing it into Salesforce.
- **Steps Followed:** No External Objects were created,