Phase 3: Data Modeling & Relationships

Goal:

Design the data structure for managing Service Appointments & Warranty tracking in Salesforce.

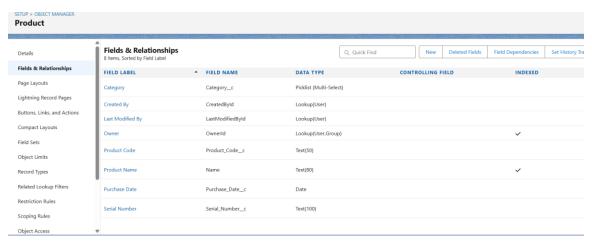
1. Standard & Custom Objects

Standard Objects (reuse):

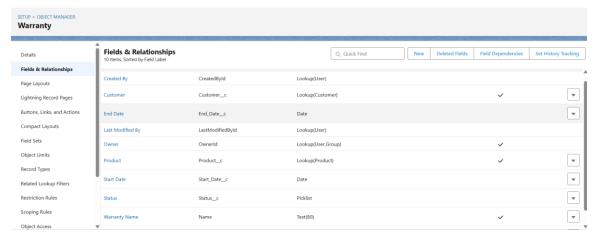
- Contact → Represents customers who request services.
- Case \rightarrow Can be reused for service-related issues if needed.

Custom Objects:

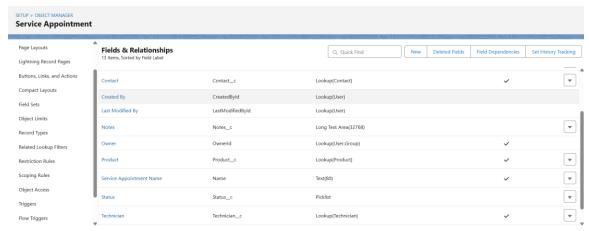
- Product → Stores information about products purchased.



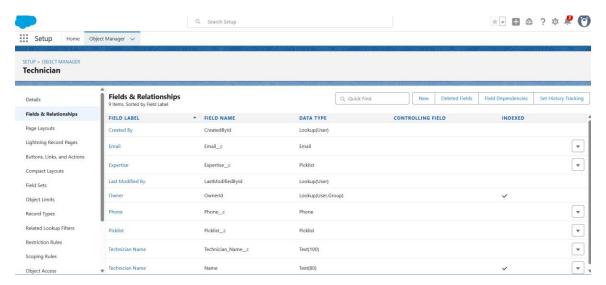
- Warranty → Stores product warranty details.



- Service Appointment → Holds appointment details for repairs/maintenance.



- Technician → Stores service engineer/technician information.



2. Fields

Product:

- Product Name
- Product Code
- Category
- Purchase Date
- Serial Number

Warranty:

- Warranty Number
- Start Date
- End Date
- Status (Active/Expired)
- Product (Lookup)

- Customer (Lookup to Contact)

Service Appointment:

- Appointment Number
- Appointment Date
- Appointment Time
- Status (Scheduled, Completed, Cancelled)
- Product (Lookup)
- Warranty (Lookup)
- Technician (Lookup)
- Customer (Lookup to Contact)

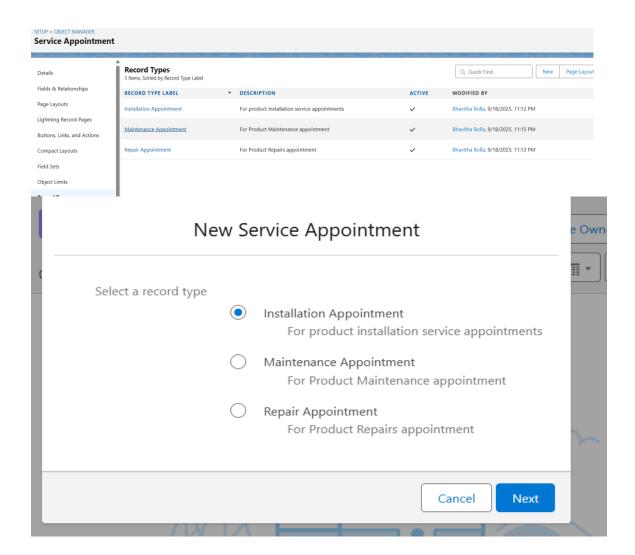
Technician:

- Technician Name
- Expertise (e.g., Electronics, Appliances)
- Email
- Phone
- Availability Status

3. Record Types

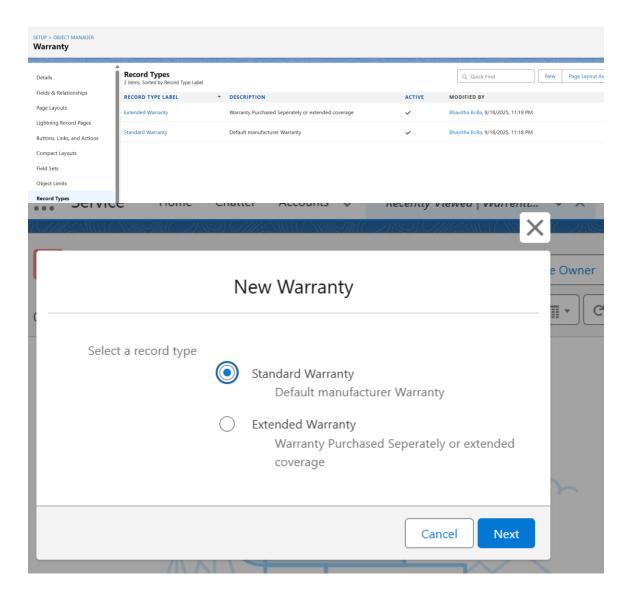
Service Appointment:

- Installation Appointment
- Repair Appointment
- Maintenance Appointment



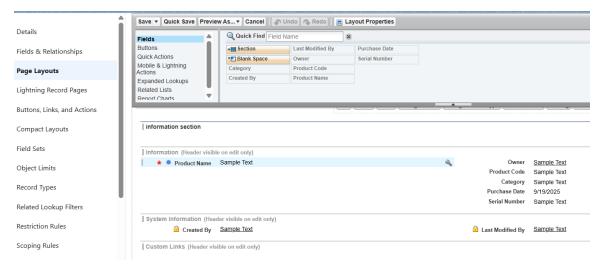
Warranty:

- Standard Warranty
- Extended Warranty

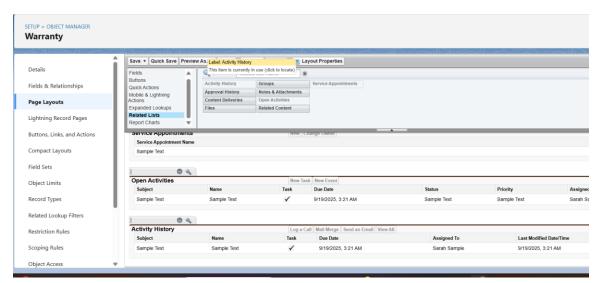


4. Page Layouts

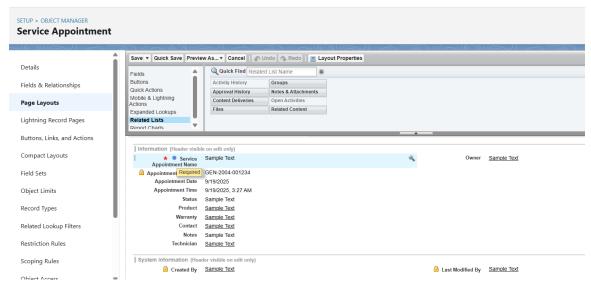
- Product Page: Shows product details + related list of Warranties & Appointments.



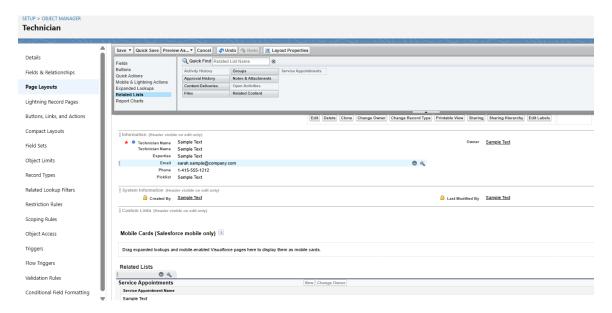
- Warranty Page: Warranty details + related Product and Customer + Service Appointments.



- Service Appointment Page: Appointment details + related Warranty, Product, Technician, and Customer.

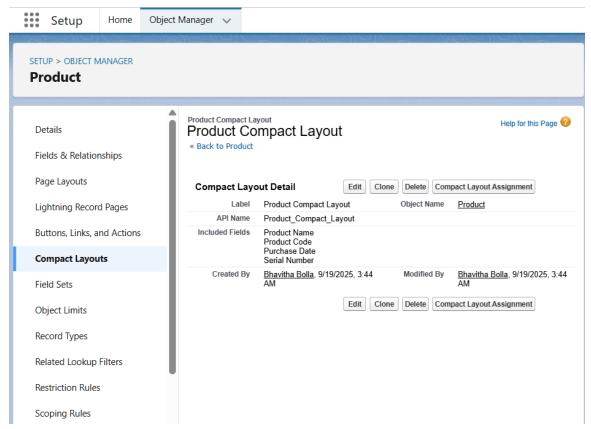


- Technician Page: Technician details + related list of assigned Service Appointments.

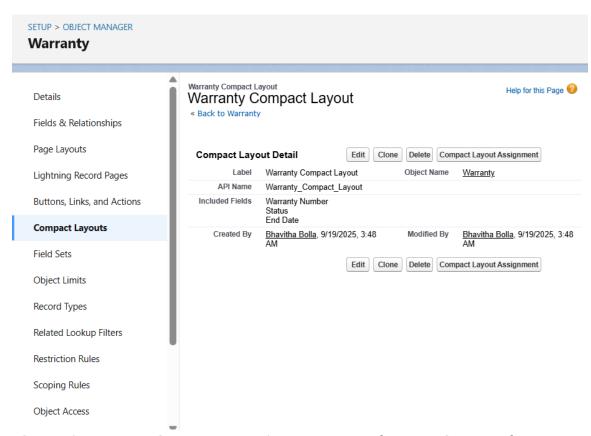


5. Compact Layouts

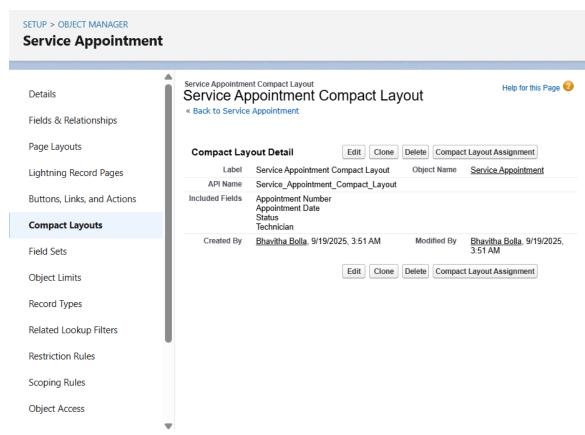
- Product Compact Layout: Product Name, Product Code, Purchase Date, Serial Number.



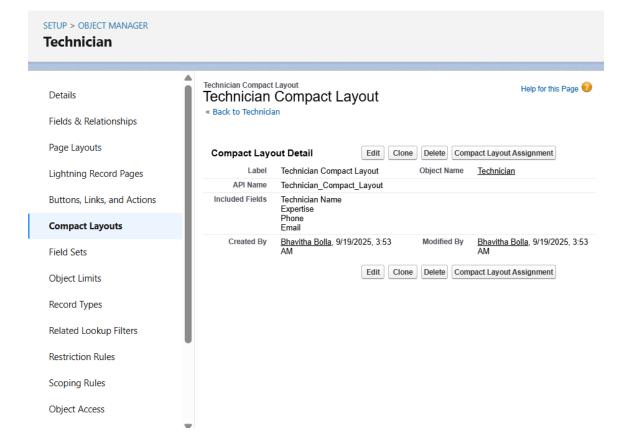
- Warranty Compact Layout: Warranty Number, Status, End Date.



- Service Appointment Compact Layout: Appointment Number, Date, Status, Technician.

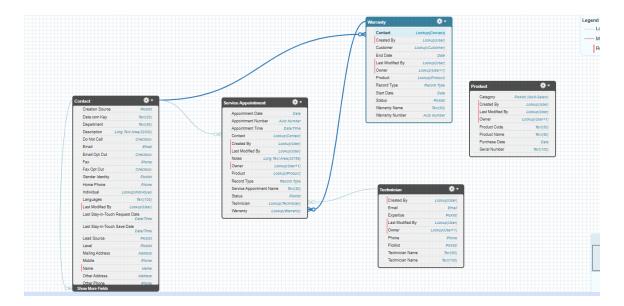


- Technician Compact Layout: Name, Expertise, Phone, Email.



6. Schema Builder (Relationships)

- Warranty → Product (Lookup)
- Warranty → Contact (Lookup)
- Service Appointment → Product (Lookup)
- Service Appointment → Warranty (Lookup)
- Service Appointment → Technician (Lookup)
- Service Appointment → Contact (Lookup)



7. Lookup vs Master-Detail vs Hierarchical

- Service Appointment ↔ Product: Lookup
- Service Appointment ↔ Warranty: Lookup
- Warranty ↔ Product: Lookup
- Technician ↔ Service Appointment: Lookup
- Hierarchical: Not used (only applies to User object)

8. Junction Objects

Not required in the current scope.

In future, if one appointment can involve multiple technicians, a junction object (e.g., Appointment_Assignment) will be needed.

9. External Objects

Not used at present.

Could be used later to integrate with manufacturer databases or external service vendor systems for warranty validation.