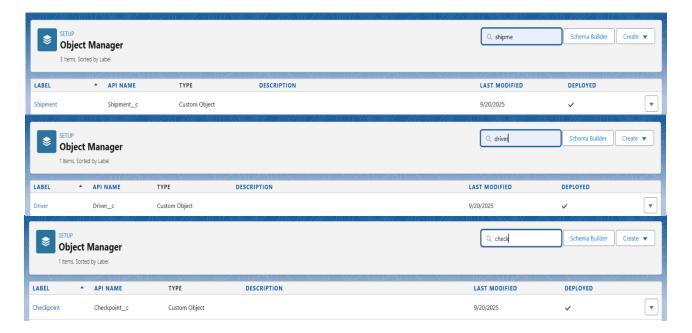
# Phase 3: Data Modeling & Relationships

Project: Logistics & Shipment Tracking System

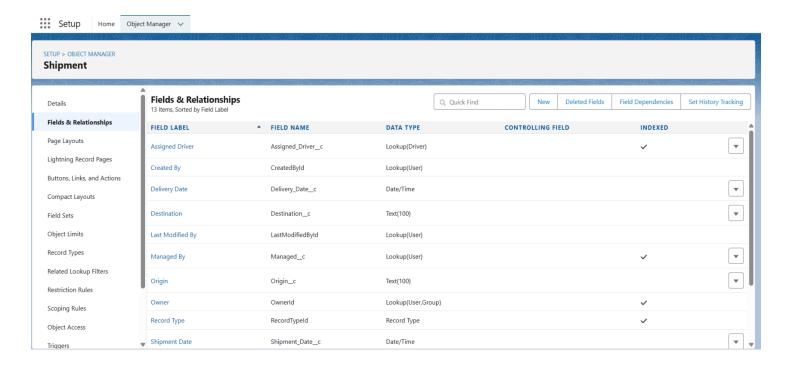
### 1. Objects Implemented

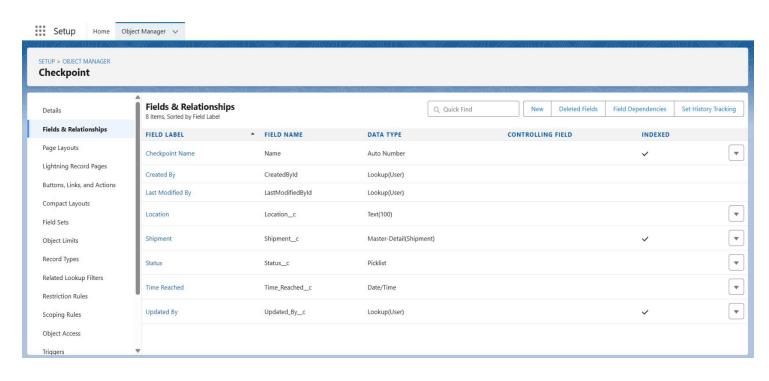
- Standard Objects Reused: User (Admin, Manager, Agent, Driver), Account & Contact (future customer linkage).
- Custom Objects Created:
- 1. Shipment\_c → Core object for booking and tracking shipments.
- 2. Driver\_c → Represents individual drivers assigned to shipments.
- 3. Checkpoint\_c → Tracks shipment progress across checkpoints.

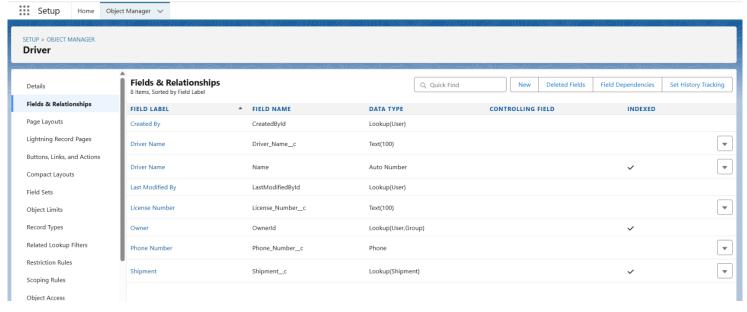


#### 2. Fields Defined

- Shipment\_c Fields: Auto Number, Name, Origin, Destination, Date, Status (Picklist), Assigned Driver (Lookup), Customer (Lookup to Account), Notes.
- Driver\_c Fields: Auto Number, Driver Name, License Number, Phone Number, Status (Picklist).
- Checkpoint\_c Fields: Auto Number, Shipment (Master-Detail), Location, Arrival Time, Status (Picklist), Notes.

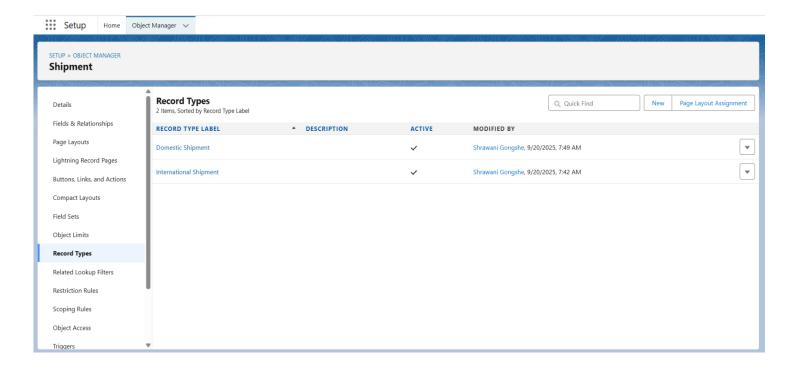






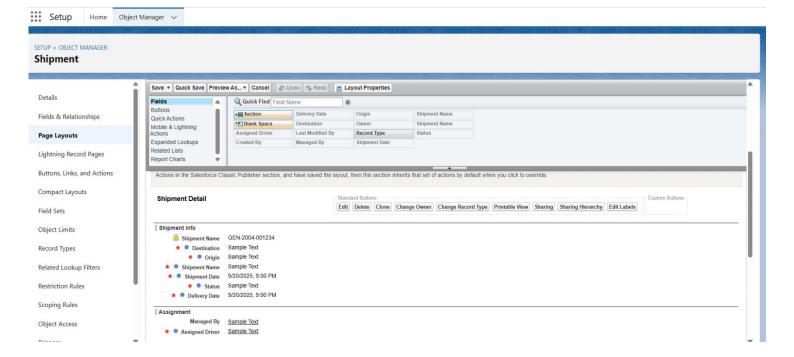
### 3. Record Types

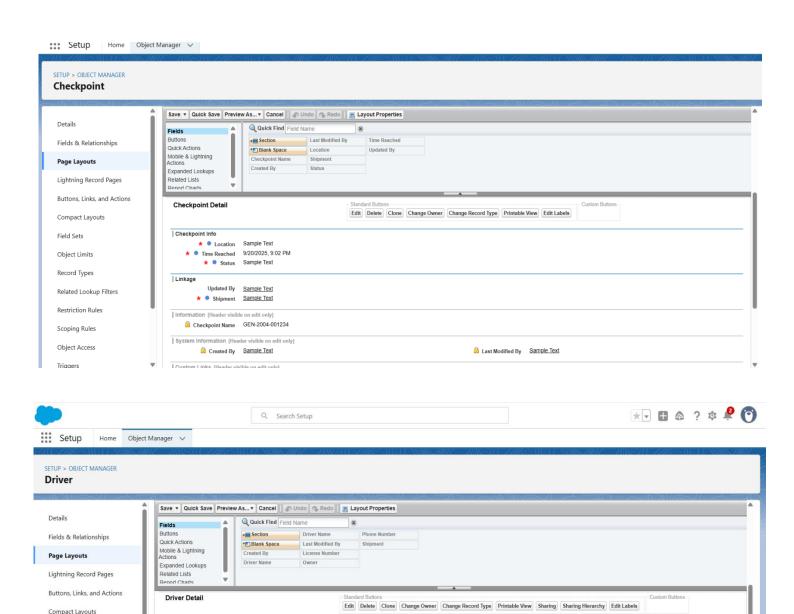
- Not required at this stage (all shipments share the same process).
- Future scope: Record types for Domestic, International, Express shipments.



#### 4. Page Layouts

- Shipment Layout: Info (ID, Name, Origin, Destination, Date, Status), Assignment (Driver, Customer), Progress Tracking (Checkpoints), Notes.
- Driver Layout: Driver Info (Name, License, Phone, Status), Related Shipments.
- Checkpoint Layout: Checkpoint Info (Location, Arrival Time, Status), Related Shipment.





Owner <u>Sample Text</u>

Last Modified By Sample Text

Driver Info

Assignments

\* O License Number Sample Text

\* Shipment Sample Text

Created By Sample Text

Custom Links (Header visible on edit only)

Information (Header visible on edit only)

Field Sets

Object Limits

Record Types

Restriction Rules

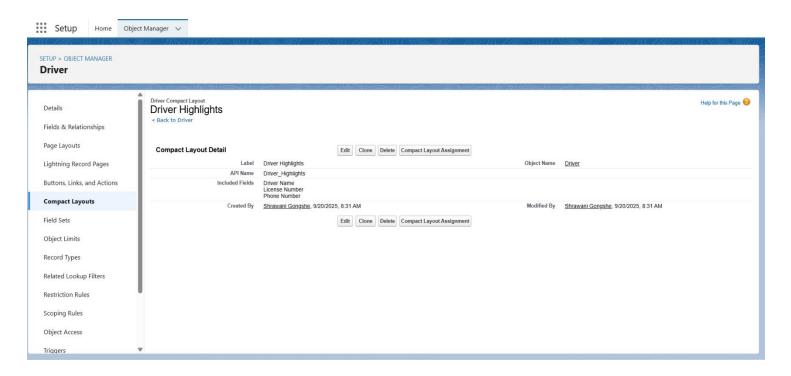
Scoping Rules
Object Access

Triggers

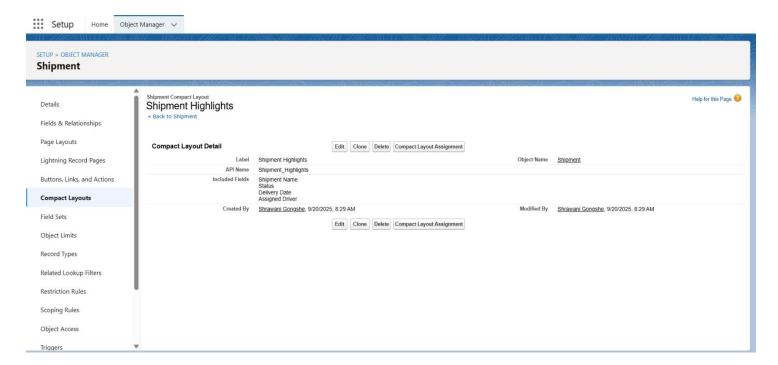
Related Lookup Filters

### 5. Compact Layouts

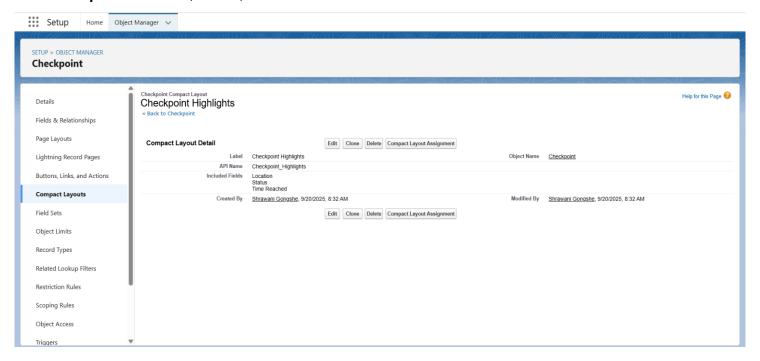
• Driver\_c: Driver Name, License Number, Phone Number



• Shipment\_c: Shipment Name, Status, Delivery Date, Assigned Driver.



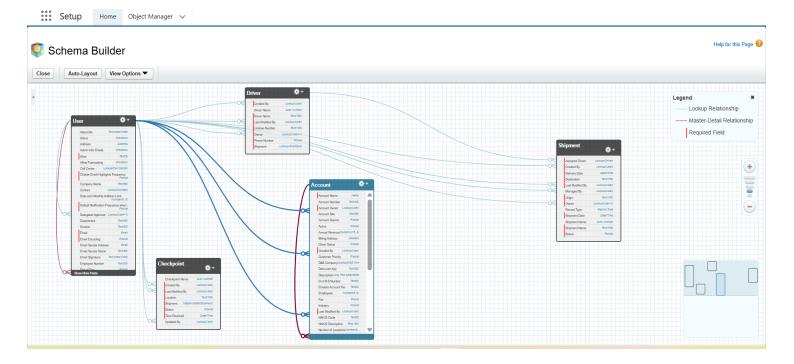
• Checkpoint: Location, Status, Time Reached



#### 6. Schema Builder

Used Schema Builder to visualize relationships:

- a. Shipment\_\_c ← Master-Detail → Checkpoint\_\_c
- b. Shipment\_c  $\leftarrow$  Lookup  $\rightarrow$  Driver\_c
- c. Shipment\_c  $\leftarrow$  Lookup  $\rightarrow$  Account



## 7. External Objects (Future Scope)

- a. GPS Tracking Services integration for real-time checkpoints.
- b. External Customer Portal integration for shipment visibility.
- This is optional for project

### ■ Phase 3 Schema Overview

| Shipment_c  | Driver c                                  | Checkpoint c                              |
|---|---|---|
| ID, Name, Origin, Destination, Status, Driver, Customer | ID, Location, Arrival Time, Status, Notes | ID, Location, Arrival Time, Status, Notes |
| Relationships:  |   |   |
| - Lookup → Driver                                       |   | - Master-Detail → Shipment                |
| - Lookup → Account                                      |   |   |

#### ■ Phase 3 Deliverables Achieved

- Created custom objects: Shipment, Driver, Checkpoint.
- Defined fields for all logistics data points.
- Designed Page Layouts and Compact Layouts.
- Established Master-Detail & Lookup relationships.
- · Visualized schema in Schema Builder.
- Planned external system integrations (GPS, Customer Portal).