Phase 3: Data Modeling & Relationships

1. Standard & Custom Objects:

Path: Setup → Object Manager → Create → Custom Object

A. Traveler:

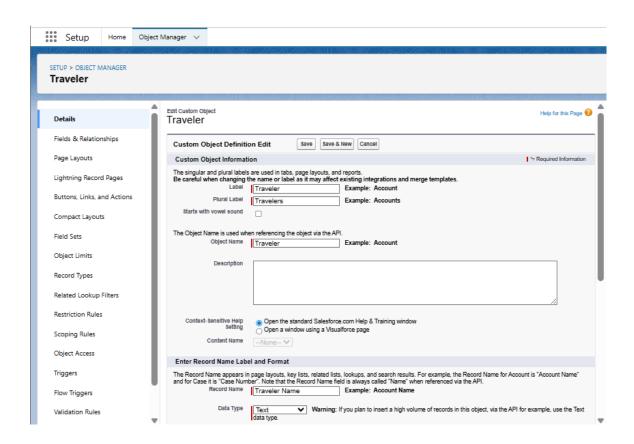
1. Click Create \rightarrow Custom Object.

Label: Traveler

o Plural Label: Travelers

Record Name: Traveler Name (Data Type: Text)

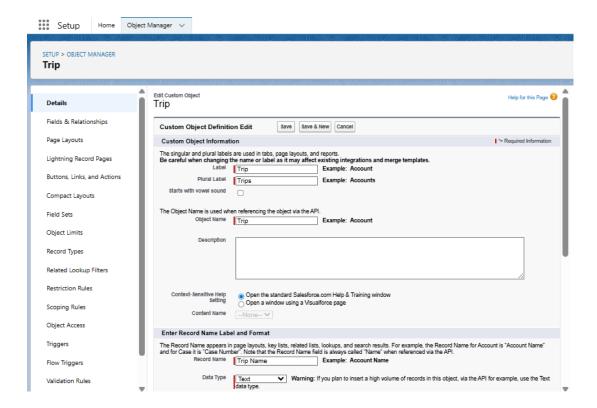
o Check Launch New Custom Tab Wizard after saving → Save.



B. Trip:

Setup → Object Manager → Create → Custom Object:

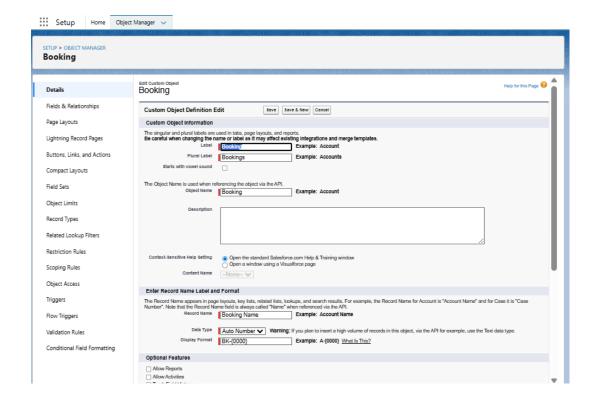
 Label: Trip, Record Name: Trip Name (Text) → Launch tab wizard → Save.



C. Booking:

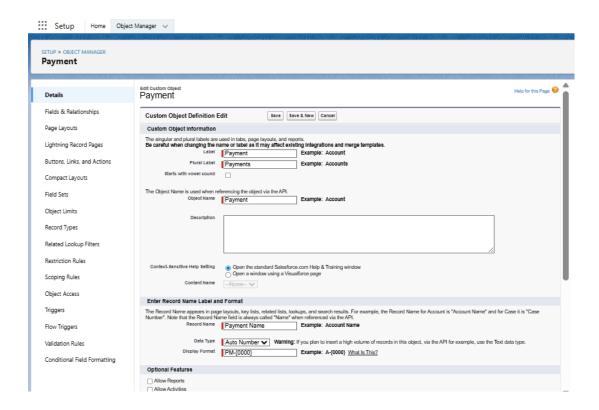
Setup \rightarrow Object Manager \rightarrow Create \rightarrow Custom Object:

 Label: Booking, Record Name: Booking Number (Auto Number) → Format BK- {0000} → Launch tab wizard → Save.



D. Payment:

- 1. Setup → Object Manager → Create → Custom Object:
 - Label: Payment, Record Name: Payment Number (Auto Number) Format PM- {0000} → Launch tab wizard → Save.

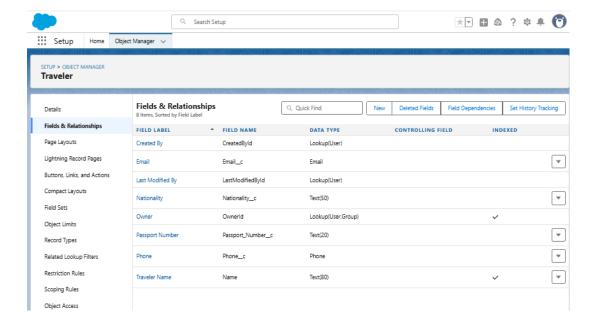


2. Fields and Relationships:

A. Traveler:

In Traveler object \rightarrow Fields & Relationships \rightarrow New \rightarrow add fields:

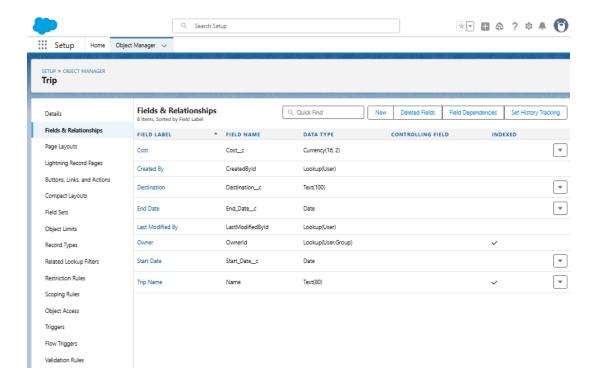
- Email → Data Type: Email
- Phone \rightarrow Data Type: Phone
- Passport Number → Data Type: Text (Length 20)
- Nationality → Data Type: Text (Length 50)
- Save each.



B. Trip:

In Trip \rightarrow Fields & Relationships \rightarrow New:

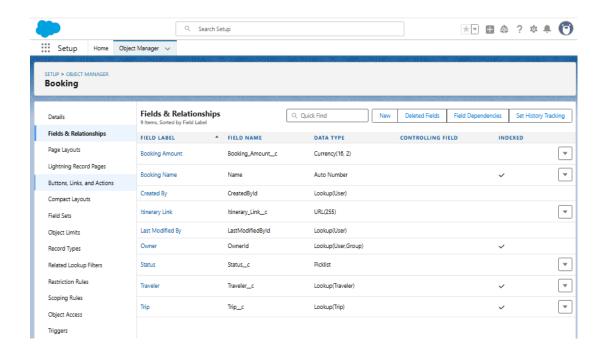
- Destination \rightarrow Text (100)
- Start Date → Date
- End Date \rightarrow Date
- Cost \rightarrow Currency (16,2)
- Save each.



C. Booking:

In Booking \rightarrow Fields & Relationships \rightarrow New:

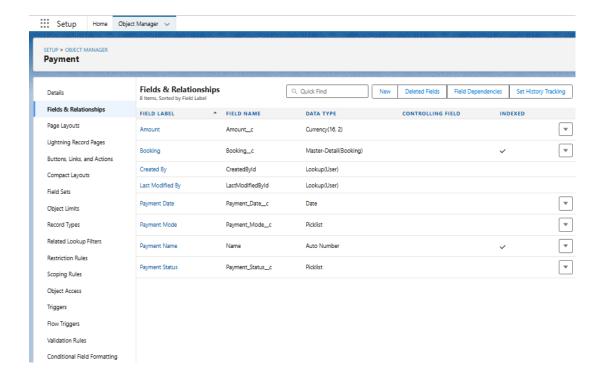
- Traveler → Lookup Relationship → Related To: Traveler
 → Next/Save.
- Trip \rightarrow Lookup Relationship \rightarrow Related To: Trip \rightarrow Save.
- Status → Picklist → Values: Enquiry, Confirmed, Completed, cancelled → Save.
- Itinerary Link \rightarrow URL \rightarrow Save.



D. Payment:

In Payment \rightarrow Fields & Relationships \rightarrow New:

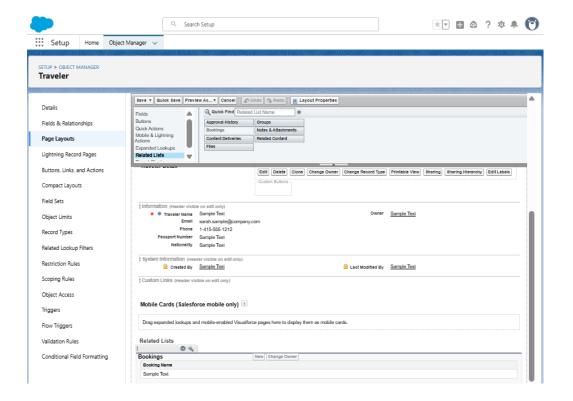
- Booking → Master-Detail Relationship → Related To: Booking → Save.
- Amount \rightarrow Currency (16,2) \rightarrow Save.
- Payment Date \rightarrow Date \rightarrow Save.
- Payment Mode → Picklist → Values: Cash, Card, UPI,
 Net Banking → Save.
- Payment Status \rightarrow Picklist \rightarrow Values: Pending, Paid,
- Overdue → Save



3. Page Layouts:

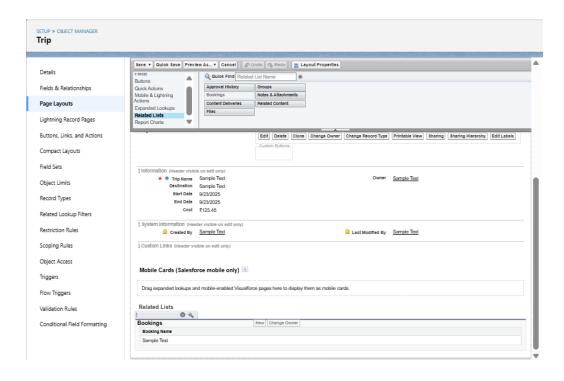
A. Traveler:

Traveler \rightarrow Page Layouts \rightarrow open default layout \rightarrow from Related Lists drag Bookings into the related lists area \rightarrow Save.



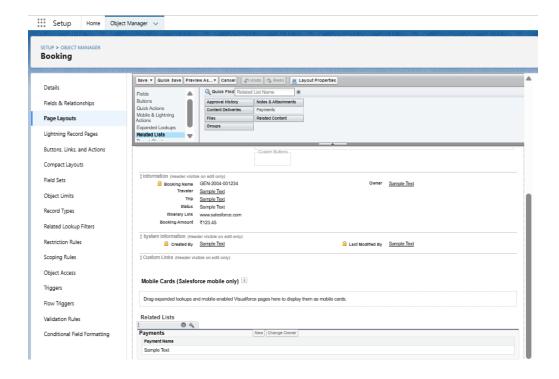
B. Trip:

 $Trip \rightarrow Page Layouts \rightarrow edit layout \rightarrow add Bookings related list \rightarrow Save.$



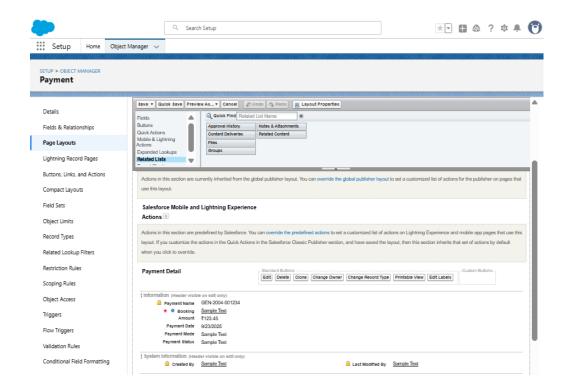
C. Booking:

Booking \rightarrow Page Layouts \rightarrow edit layout \rightarrow ensure fields Traveler, Trip, Status, Itinerary Link, Booking Amount visible \rightarrow drag Payments related list in \rightarrow Save.



D. Payment:

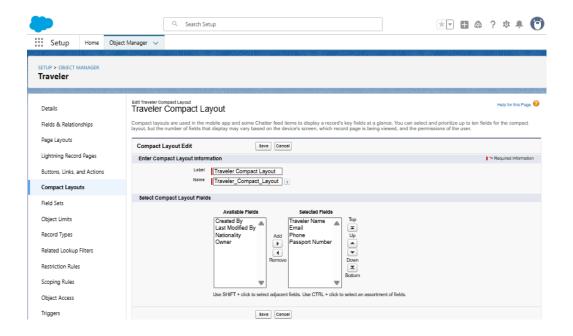
Payment \rightarrow Page Layouts \rightarrow ensure Booking field is on page \rightarrow Save.



4. Compact Layouts:

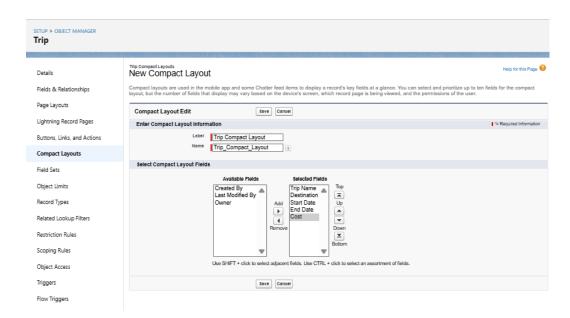
A. Traveler Compact Layout:

- o Click New → Label = Traveler Compact Layout
- Fields to display: Traveler Name, Email, Phone, Passport Number
- Save → Click Compact Layout Assignment → Assign as Primary.



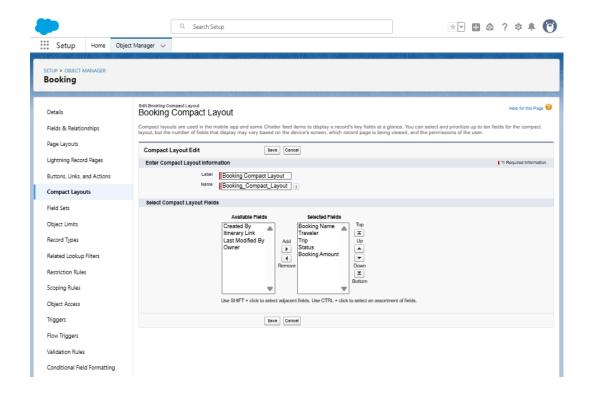
B. Trip Compact Layout:

- New \rightarrow Label = Trip Compact Layout
- o Fields: Trip Name, Destination, Start Date, End Date, Cost
- Save & assign.



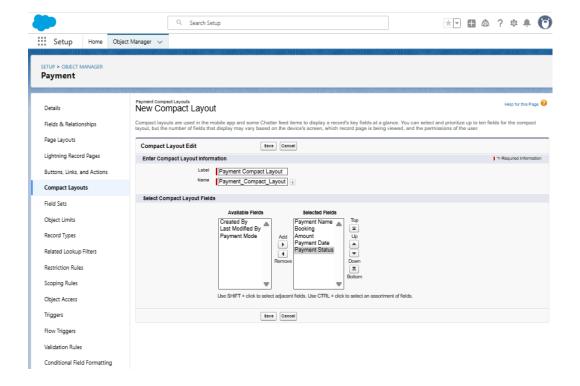
C. Booking Compact Layout:

- o New → Label = Booking Compact Layout
- Fields: Booking Number, Traveler, Trip, Status, Booking Amount
- Save & assign.



D. Payment Compact Layout:

- o New → Label = Payment Compact Layout
- Fields: Payment Number, Booking, Amount, Payment Date, Payment Status
- o Save & assign.

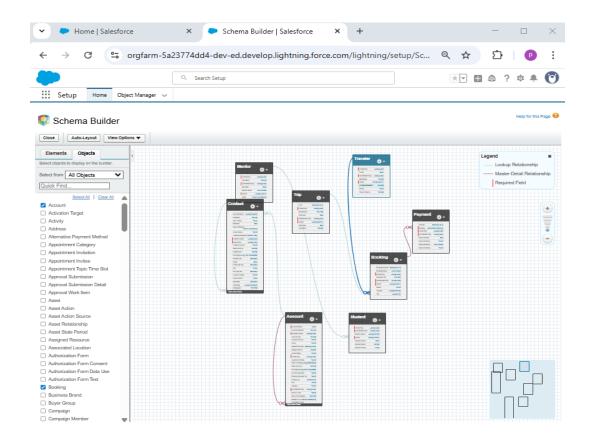


5. Schema Builder:

- 1. In Setup \rightarrow search Schema Builder.
- 2. On the left pane, check the boxes for Traveler, Trip, Booking, Payment.

You'll see:

- 3. Traveler ↔ Booking (Lookup)
- 4. Trip ↔ Booking (Lookup)
- 5. Booking ↔ Payment (Master-Detail)



6. Lookup vs Master-Detail Relationships:

Lookup Relationship:

- Used between Traveler–Booking and Trip–Booking.
- Allows related records but does not enforce dependency.

Master-Detail Relationship:

- Used between Booking-Payment.
- Child (Payment) cannot exist without parent (Booking).

7. Junction Objects:

- A Junction Object is used to model a many-to-many relationship.
- In this app, Booking is effectively a Junction Object because:
 - One Traveler can have many Bookings.
 - o One Trip can have many Bookings.
 - o Booking connects them together.
- This design allows multiple Travelers to book the same Trip, and each Traveler can book multiple Trips.