

DATASETS

Date	24 June 2025
Team ID	LTVIP2025TMID31109
Project Name	Field Service WorkOrder Optimization

While the document does not include actual datasets (like CSV or Excel), it specifies the fields used to store data. These form the data schema:

Sample Data Schema:

1.Custom Object: Technician

The Technician object stores details about field technicians. It includes personal details, availability, location, and technical skills. This data is crucial for intelligently assigning work orders.

1.Fields Used:

- Technician ID (Text)
- Name (Text)
- Email (Email)
- Skills (Picklist: Hardware, Software, Network, etc.)
- Location (PickList)
- Owner(LookUp)
- Last Modified By (LookUp)
- Availability (Picklist: Available, Unavailable)

The screenshot shows the Salesforce Setup interface. At the top, there's a search bar labeled "Search Setup". Below it, the navigation menu includes "Setup", "Home", and "Object Manager". The main content area is titled "SETUP > OBJECT MANAGER" and "Technician". On the left, a sidebar lists various setup options: Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The "Fields & Relationships" section is active, displaying a table of fields for the Technician object. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. There are 10 items listed, sorted by Field Label. The fields shown are Availability, Created By, Email, Last Modified By, Location, Name, Owner, and Phone. The Owner field is marked as indexed with a checkmark.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Availability	Availability__c	Picklist		
Created By	CreatedById	Lookup(User)		
Email	Email__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Picklist		
Name	Name__c	Text(255)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone	Phone__c	Phone		

2. Custom Object: WorkOrder

The WorkOrder object represents tasks that need to be completed. It tracks job details, location, customer email, priority, and service type.

Fields Used:

- WorkOrder ID (Auto Number)
- Location (Picklist: Nasik, Warangal, Nanded)
- Email (Email)
- Priority (Picklist: High)
- Status (Picklist: Pending, In Progress, Resolved)
- Date (Date)

- Last Modified Date (Lookup)

The screenshot shows the Salesforce Setup interface for the 'workorder' object. The left sidebar lists various setup options, with 'Fields & Relationships' selected. The main area displays a table of fields for the 'workorder' object, sorted by Field Label. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Created By, Date, Description, Email, Last Modified By, Location, Owner, and Priority. The 'Last Modified By' field is highlighted in blue, indicating it is the current field being viewed.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date_c	Date		
Description	Description__c	Long Text Area(131072)		
Email	Email__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Picklist		
Owner	OwnerId	Lookup(User,Group)		✓
Priority	Priority__c	Picklist		

3. Custom Object: Assignment

The Assignment object links a technician to a specific work order. It is generated automatically through Apex logic and captures assignment and completion data.

Fields Used:

- Assignment ID (Auto Number)
- Technician ID (Lookup to Technician)
- WorkOrder ID (Lookup to WorkOrder)
- Assignment Date (Formula: WorkOrder.Date)
- Completion Date (Formula:Date)

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Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Assignment

Details

Fields & Relationships

10 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

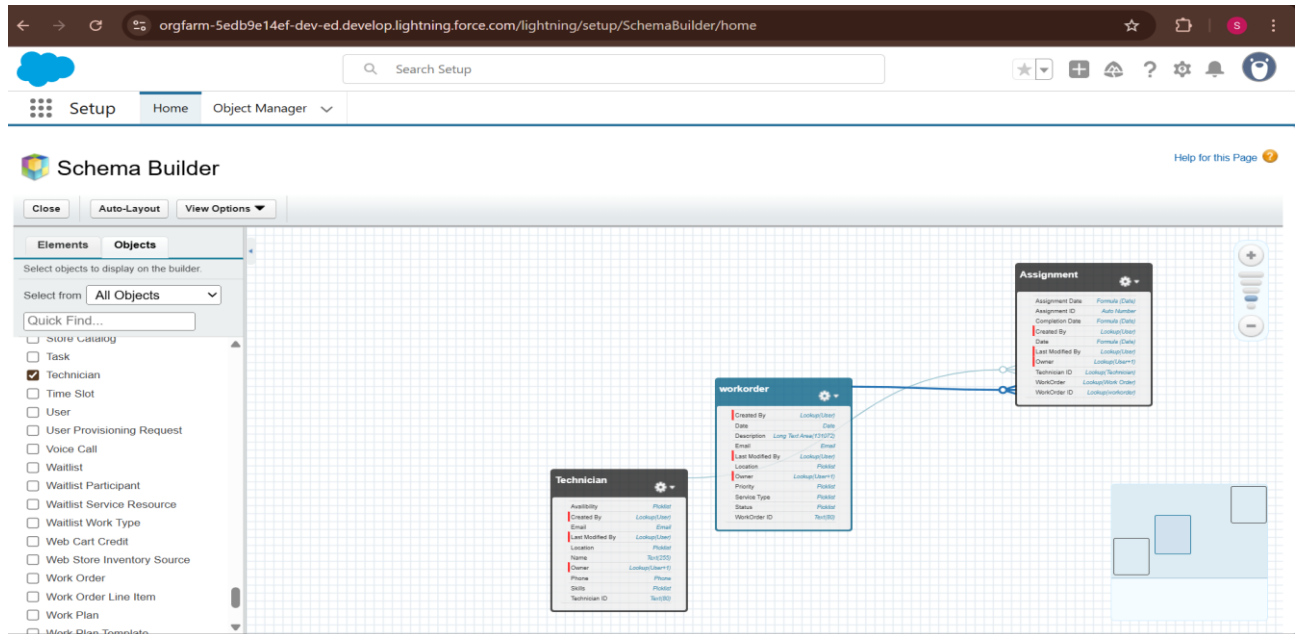
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Assignment Date	Assignment_Date__c	Formula (Date)		
Assignment ID	Name	Auto Number		✓
Completion Date	Completion_Date__c	Formula (Date)		
Created By	CreatedById	Lookup(User)		
Date	Date__c	Formula (Date)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Technician ID	Technician_ID__c	Lookup(Technician)		✓

4 Data Relationships

All three objects are related through Lookup Relationships. A Technician can be assigned to multiple WorkOrders via the Assignment object.

Relationship Summary:

- **Technician → Assignment: One-to-Many (Lookup)**
- **WorkOrder → Assignment: One-to-Many (Lookup)**



5 Sample Data Entries

Sample records were entered in each object to demonstrate system functionality. The following views show how the data appears in the Lightning UI.

The screenshot shows a Salesforce Lightning UI form for creating a new record. The form is titled 'kale Satya Sai Nivas'. It includes fields for Name, Phone, Email, Location, and Availability. The Availability dropdown menu is open, showing options: Available, --None--, and Not Available. The form is titled 'kale Satya Sai Nivas'. The bottom of the form has buttons for 'Cancel', 'Save & New', and 'Save'. Below the form, it says 'Nothing to see here'.

✓ **Summary Table of Datasets**

Object	Key Fields	Data Type	Purpose
Technician	Name, Skills, Location, Availability	Text, Picklist	Store technician info for assignment
WorkOrder	Location, Status, Priority, Email, Service Type	Text, Email, Picklist	Represents job or task request
Assignment	Technician ID, WorkOrder ID, Assignment Date	Lookup, Formula	Maps technician to a work order