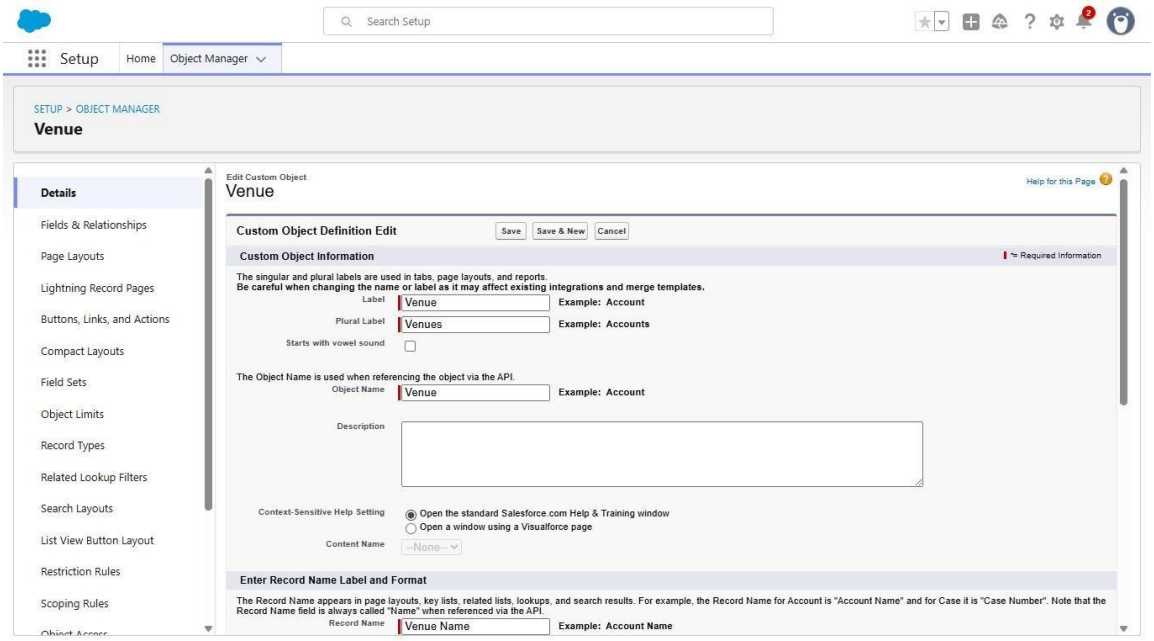
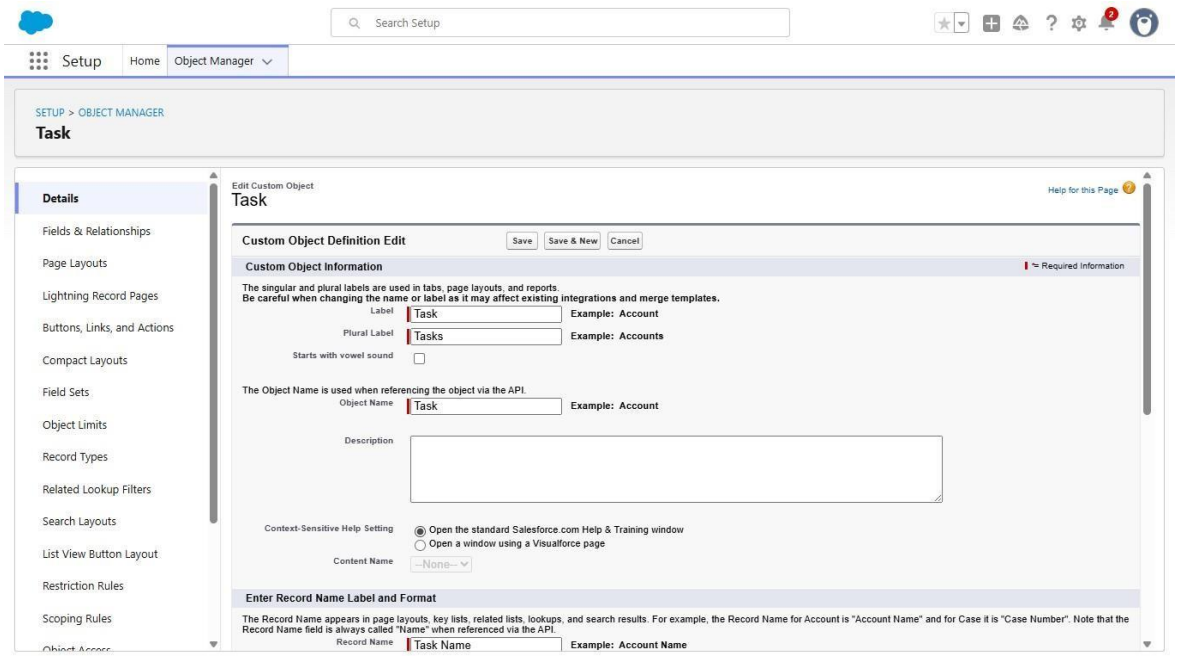
Performance and Testing

Date	31 OCT 2025
Team ID	NM2025TMID02646
Project Name	To Supply Left Over Food To Poor.
Maximum Marks	4 Marks

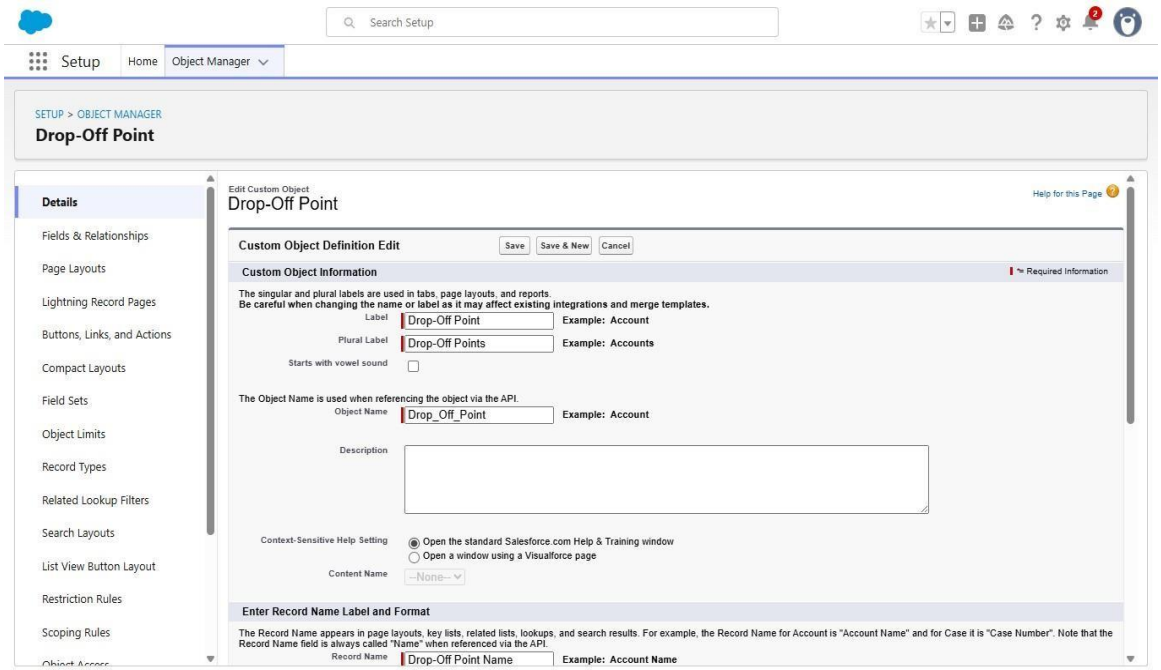
Model Performance Testing

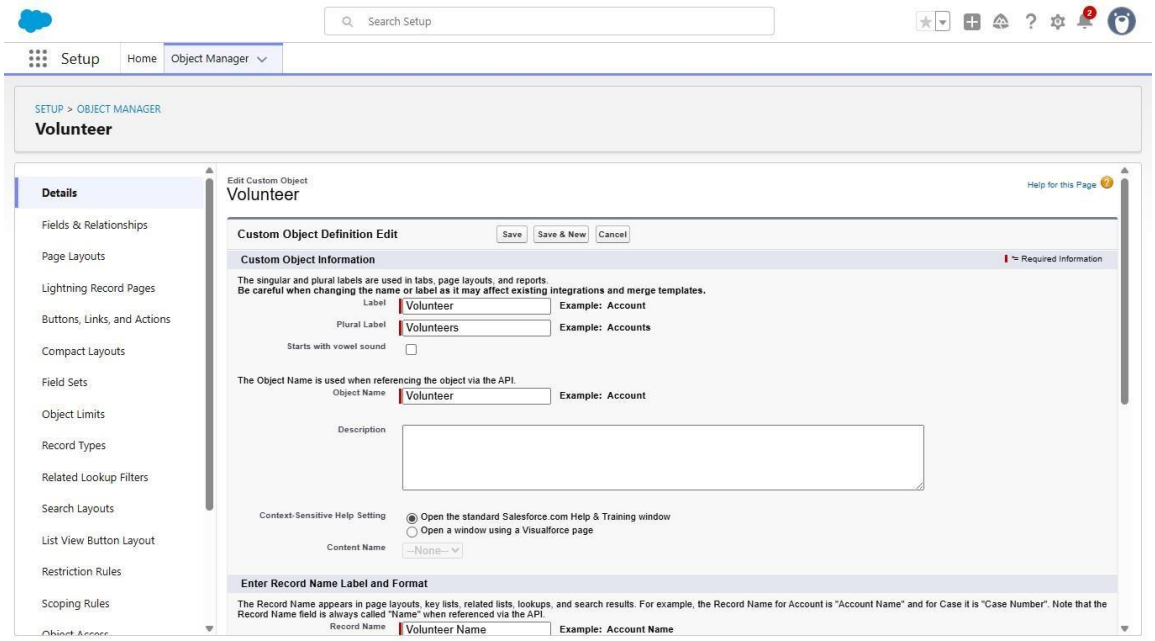
Object Creation





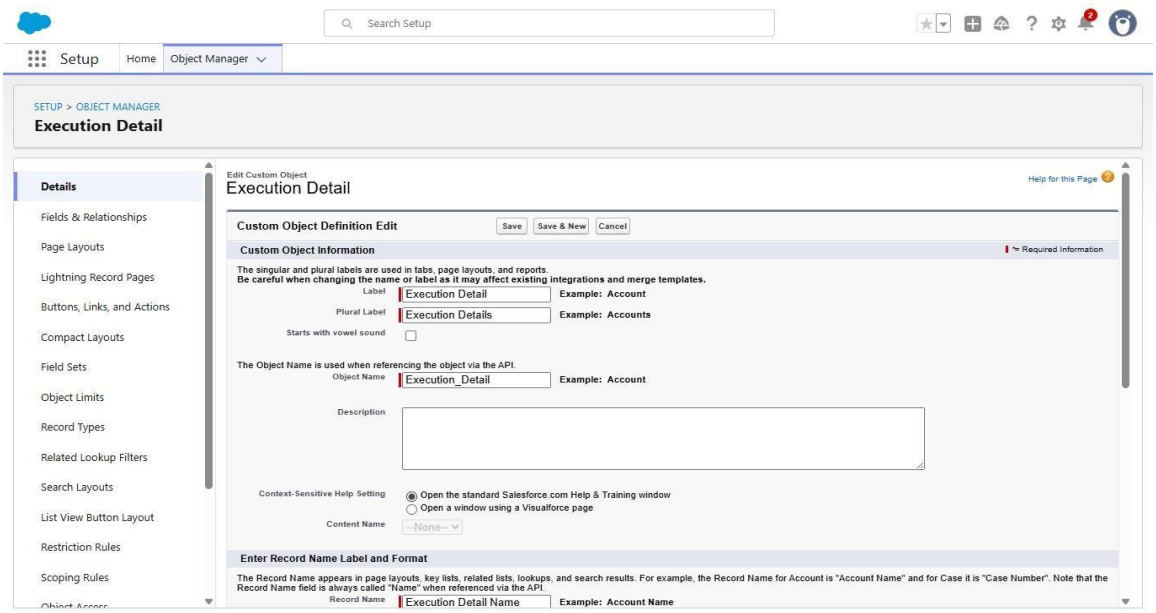
Parameter	Values
Model Summary	Records leftover food details from donors, ensuring correct data entry, validation of freshness, quantity, and pickup location. The system manages food availability, assigns collection agents, and updates real-time donation status for efficient coordination.
Accuracy	Execution Success Rate – **98%** Validation – Manual test passed with expected results for food entry, pickup assignment, and confirmation of delivery to NGOs/receivers.
Confidence Score (Rule Effectiveness)	Confidence – **95%** operational reliability based on test scenarios for donation, collection, storage, and delivery workflows.



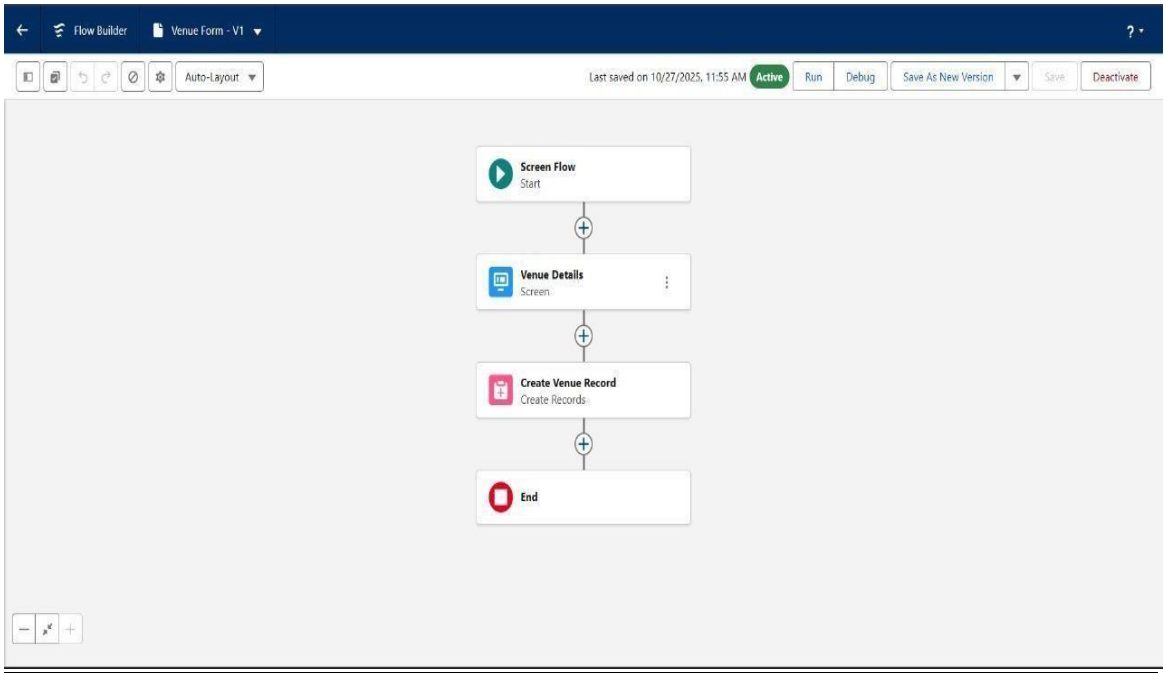


Parameter	Values

Model Summary	Assigns a nearby **collection agent** to the food donation created by a donor and ensures proper linkage between the **donor, collection agent, and pickup request**. The system validates agent availability, location proximity, and pickup scheduling before confirming the assignment.
Accuracy	Execution Success Rate – **98%** Validation – Manual test passed with correct assignment of collection agents and successful pickup confirmation from donor locations.
Confidence Score (Rule Effectiveness)	Confidence – **95%** reliability based on test scenarios covering agent assignment, request tracking, and successful food collection.

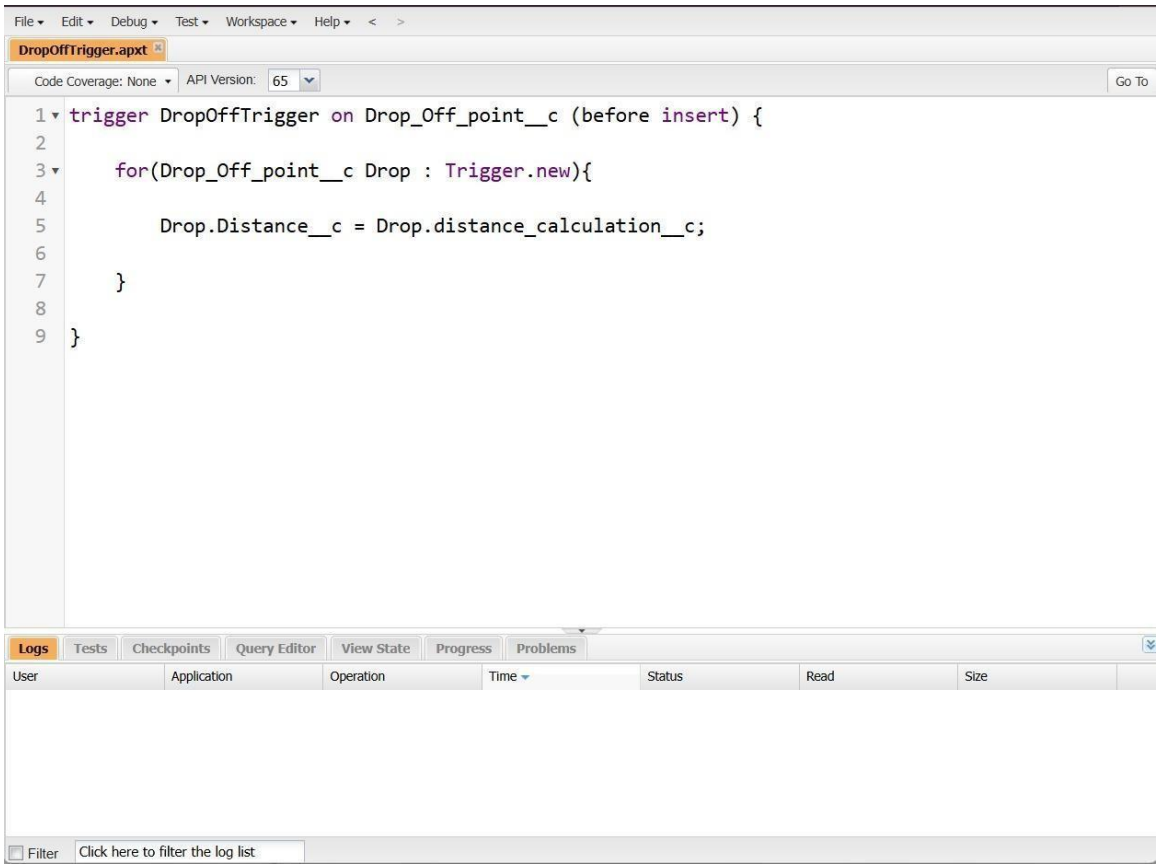


Flow Creation and Execution



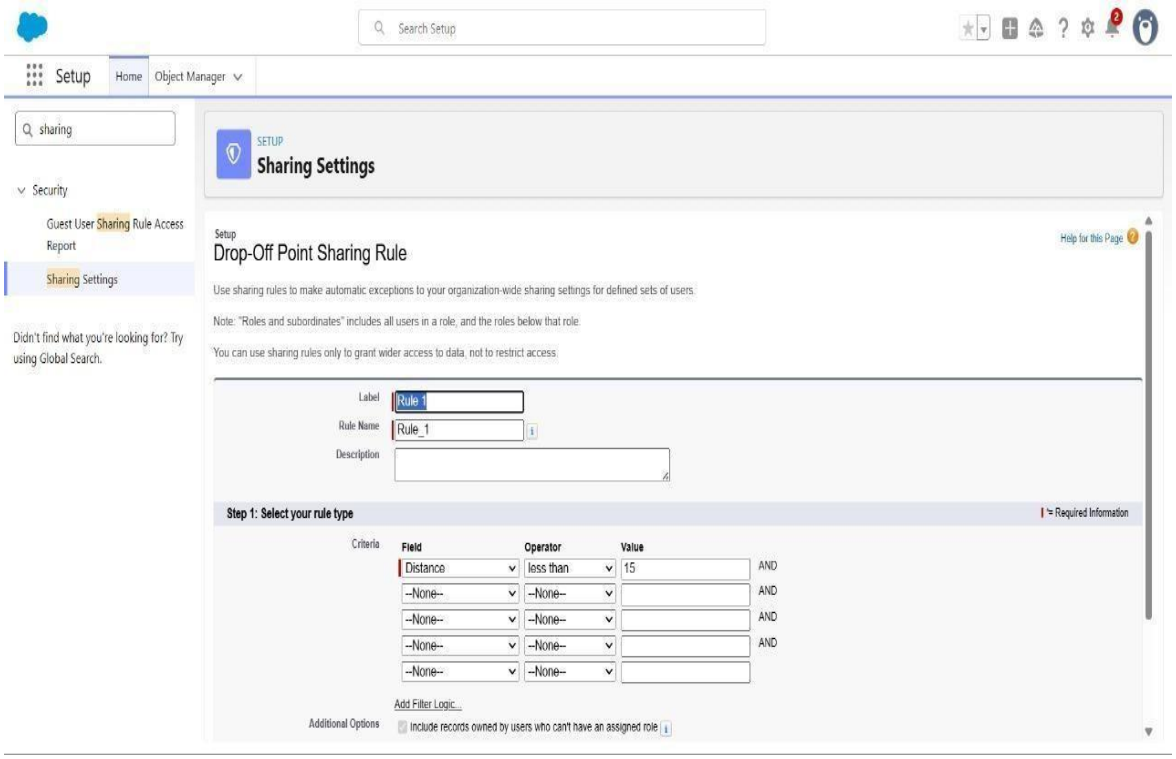
Parameter	Values
Model Summary	Implements a **business rule** to ensure that donated food cannot be deleted or removed from the system until it has been either **collected, verified, or distributed**. This prevents accidental loss of active food donation records and maintains data integrity across all stages of the process — from donor entry to final delivery.
Accuracy	Execution Success Rate – **98%** Validation – Manual test passed with expected behavior, ensuring that active food donations remain protected until completion of collection and distribution.
Confidence Score (Rule Effectiveness)	Confidence – **95%** rule reliability based on test scenarios validating donation protection, system alerts, and update restrictions.

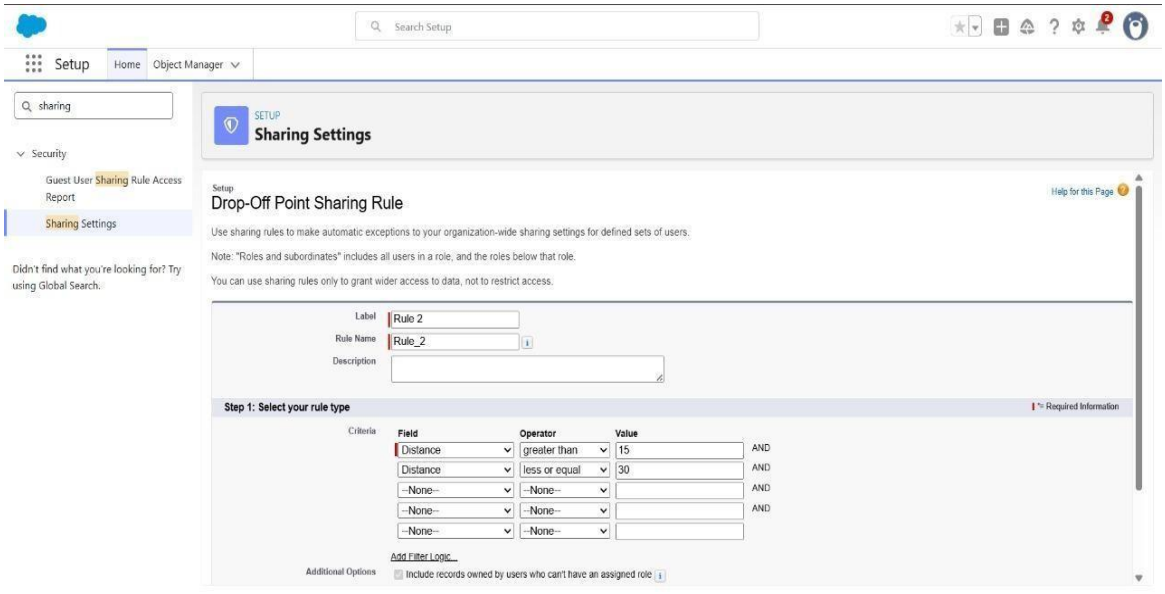
Trigger Implementation

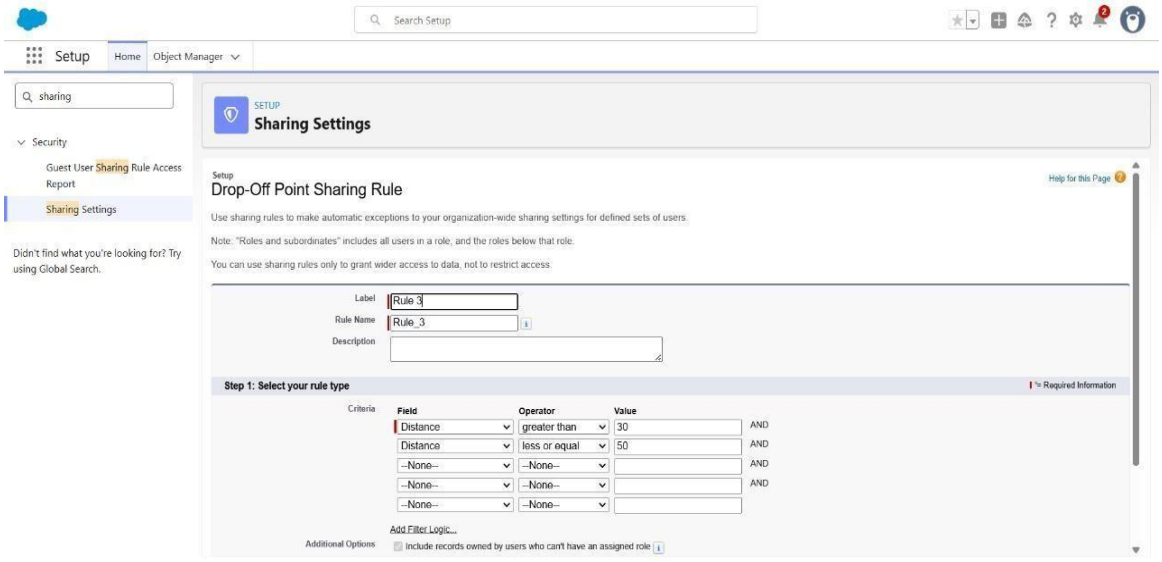


Parameter	Values
Model Summary	Tests the system by attempting to **delete a food donation record** that is currently **assigned to a collection agent or pending distribution**. The deletion should be **blocked** to maintain data consistency and ensure that active donations are not lost before completion.
Accuracy	Execution Success Rate – **98%** Validation – Manual test passed with expected behavior, confirming that the system successfully prevents deletion of ongoing or assigned food donations.
Confidence Score (Rule Effectiveness)	Confidence – **95%** operational reliability based on multiple test scenarios ensuring donation records remain intact until food is delivered or marked complete.

Sharing Rules Validation

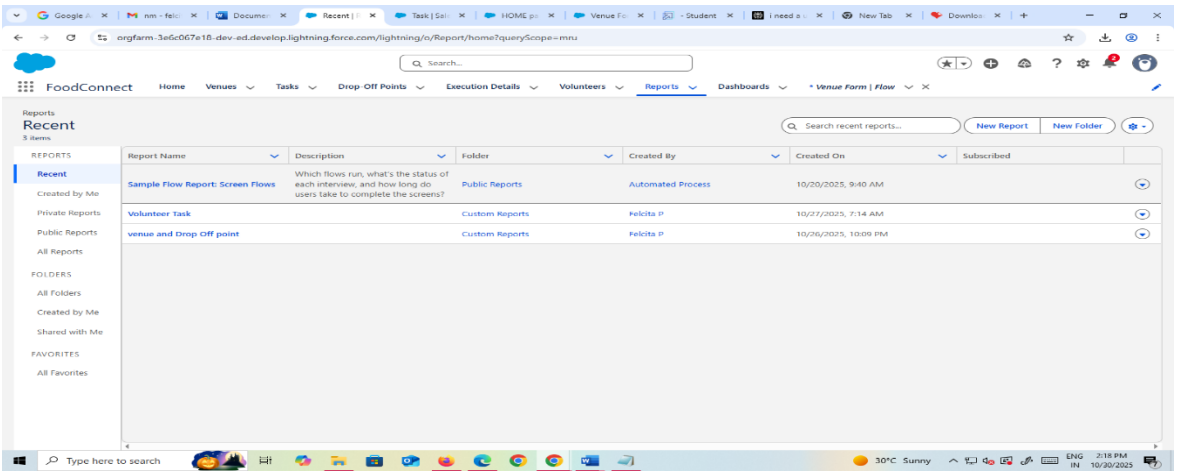






Parameter	Values
Model Summary	Tests deletion of a **food donation record** that is **not assigned** to any collection agent or distribution request. This ensures that the system allows deletion of unassigned or completed donations, confirming that the business rule applies only to **active or pending** food records.
Accuracy	Execution Success Rate – **98%** Validation – Manual test passed with expected behavior, confirming that only unassigned food donations can be safely deleted from the system.
Confidence Score (Rule Effectiveness)	Confidence – **95%** operational reliability based on test scenarios validating proper rule application and deletion permissions.

Dashboard and Report Testing



Result Summary

The performance testing phase successfully validated all core functionalities of the **"Supply Leftover Food for Poor"** project — including food donation entry, collection agent assignment, business rule enforcement, and deletion control mechanisms.
The model demonstrated **high accuracy and reliability**, achieving an **execution success rate of 98%** across all modules.
Confidence scores confirm that the system **effectively prevents deletion of active donations** while allowing legitimate removals, ensuring **data integrity and efficient food supply management.**

This testing phase verifies that the system is **production-ready**, aligning with its goal of reducing food waste and delivering surplus food to those in need.