

FOOD CONNECT

- **Introduction :**

In the realm of CRM applications, maintaining accurate and synchronized data is crucial for ensuring effective operations and reliable decision-making. Our application, **FoodConnect**, aims to bridge the gap between surplus food and those in need, leveraging Salesforce's robust platform for managing and optimizing resources.

A key aspect of the **FoodConnect** CRM is the handling of distance information for drop-off points. Accurate distance data is essential for configuring sharing rules and optimizing the allocation of resources. To address this need, we have implemented a Salesforce trigger named **DropOffTrigger**.

DropOffTrigger is designed to synchronize the `Distance__c` field with the `distance_calculation__c` field on the `Drop_Off_point__c` object. This trigger ensures that every time a new drop-off point record is inserted into the system, the distance value is correctly copied to the `Distance__c` field. This alignment not only maintains data consistency but also supports the application's functionality in managing and sharing food resources effectively.

In the following sections, we will delve into the specifics of the trigger's implementation, its purpose, and how it integrates with the broader objectives of the **FoodConnect** application.

- **Trigger Name :**

The **DropOffTrigger** is a Salesforce Apex trigger that ensures the `Distance__c` field on the `Drop_Off_point__c` object is accurately populated with the value from the `distance_calculation__c` field before new records are inserted. This trigger plays a critical role in maintaining data consistency by synchronizing distance information, which is essential for applying distance-based sharing rules and optimizing resource allocation in the **FoodConnect** application. By automating this process, the **DropOffTrigger** enhances the reliability of distance data used throughout the system.

- **Object :**

`Drop_Off_point__c` : The **Drop_Off_point__c** object in the **FoodConnect** CRM application represents the locations where surplus food is delivered to those in need. This custom object is integral to managing and tracking drop-off points within the system. It includes key fields such as `Distance__c`, which is used to capture the distance from a given reference point, and `distance_calculation__c`, which stores the calculated distance value.

The **Drop_Off_point__c** object facilitates effective resource allocation and helps in defining sharing rules based on geographical data. By maintaining detailed and accurate records of drop-off points, this object supports the application's mission to efficiently distribute surplus food and optimize its impact on communities.

- **Description :**

This trigger is designed to ensure that the Distance__c field on the Drop_Off_point__c object is always synchronized with the distance_calculation__c field before a new record is inserted.

This synchronization is crucial for maintaining accurate distance data, which can be used for setting up sharing rules and other distance-related logic.

Code:

```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {  
  
    for(Drop_Off_point__c Drop : Trigger.new){  
  
        Drop.Distance__c = Drop.distance_calculation__c;  
  
    }  
  
}
```

- **Functionality:**
 - **Trigger Event:** Before Insert - This trigger executes before new Drop_Off_point__c records are saved to the database.
 - **Logic:** For each record in the Trigger.new collection (which contains the new Drop_Off_point__c records being inserted), the trigger sets the Distance__c field to the value of the distance_calculation__c field.
 - **Purpose:** The primary purpose of this trigger is to ensure that the Distance__c field accurately reflects the distance calculated in the distance_calculation__c field. This alignment is necessary for utilizing the distance data in sharing rules and other processes where the distance information is critical.
- **Usage:** This trigger is particularly useful in scenarios where sharing rules or other business logic depend on distance values. By ensuring that Distance__c is populated correctly at the time of record creation, the trigger helps in maintaining data consistency and integrity.