

MEDICAL INVENTORY MANAGEMENT

Date	20-06-2025
Team ID	LTVIP2025TMID29579
Project Name	Medical Inventory Management
Maximum Marks	

CHAPTER - 12 APPENDIX(apex Code):

trigger CalculateTotalAmountTrigger on Order_Item__c (after insert, after update,
after delete, after undelete) {

 // Call the handler class to handle the logic

 CalculateTotalAmountHandler.calculateTotal(trigger.new, trigger.old,
 trigger.isInsert, trigger.isUpdate, trigger.isDelete, trigger.isUndelete);
}

public class CalculateTotalAmountHandler {

 // Method to calculate the total amount for Purchase Orders based on related
 Order Items

 public static void calculateTotal(List<Order_Item__c> newItems,
 List<Order_Item__c> oldItems, Boolean isInsert, Boolean isUpdate, Boolean isDelete,
 Boolean isUndelete) {

 // Collect Purchase Order IDs affected by changes in Order_Item__c records

 Set<Id> parentIds = new Set<Id>();

 // For insert, update, and undelete scenarios

 if (isInsert || isUpdate || isUndelete) {

 for (Order_Item__c ordItem : newItems) {

 parentIds.add(ordItem.Purchase_Order_Id__c);

 }

 }

 // For update and delete scenarios

 if (isUpdate || isDelete) {

 for (Order_Item__c ordItem : oldItems) {

 parentIds.add(ordItem.Purchase_Order_Id__c);

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```
    }  
}  
  
// Calculate the total amounts for affected Purchase Orders  
Map<Id, Decimal> purchaseToUpdateMap = new Map<Id, Decimal>();  
if (!parentIds.isEmpty()) {  
    // Perform an aggregate query to sum the Amount__c for each Purchase  
Order  
    List<AggregateResult> aggrList = [  
        SELECT Purchase_Order_Id__c, SUM(Amount__c) totalAmount  
        FROM Order_Item__c  
        WHERE Purchase_Order_Id__c IN :parentIds  
        GROUP BY Purchase_Order_Id__c  
    ];  
    // Map the result to Purchase Order IDs  
    for (AggregateResult aggr : aggrList) {  
        Id purchaseOrderId = (Id)aggr.get('Purchase_Order_Id__c');  
        Decimal totalAmount = (Decimal)aggr.get('totalAmount');  
        purchaseToUpdateMap.put(purchaseOrderId, totalAmount);  
    }  
    // Prepare Purchase Order records for update  
    List<Purchase_Order__c> purchaseToUpdate = new  
List<Purchase_Order__c>();  
    for (Id purchaseOrderId : purchaseToUpdateMap.keySet()) {  
        Purchase_Order__c purchaseOrder = new Purchase_Order__c(Id =  
purchaseOrderId, Total_Order_cost__c =  
purchaseToUpdateMap.get(purchaseOrderId));  
        purchaseToUpdate.add(purchaseOrder);  
    }  
    // Update Purchase Orders if there are any changes  
    if (!purchaseToUpdate.isEmpty()) {  
        update purchaseToUpdate;
```

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}
}
}
}