Events task

1. Task: Validate and Restrict Discount on Sales Order

Objective:

Write a **Codeunit** that ensures the "Line Discount %" on a Sales Line cannot exceed **10**%. If it does, reset it to 10% and show a warning message.

Solutions::

2. Task: Auto-Calculate Total Weight on Sales Order

Objective:

Create a **Codeunit** that calculates the **Total Weight** of all Sales Lines and updates it on the Sales Header. The "Weight" is a custom field in the **Item** table.

Solutions:

```
field(50107; TotalWeight; Integer)
{
    // DataClassification = ToBeClassified;
    FieldClass = FlowField;
    CalcFormula = Sum("Sales Line".Weight where("Document No." = field("No.")));
}
```

Tsk 3:

Write a Codeunit that prevents the deletion of an Item if it is referenced in an active Sales Order. Key

Requirements: Use an Event Subscriber on the **OnBeforeDeleteEvent** trigger of the Item table. Check if the Item exists in any unposted Sales Lines. Prevent deletion and display a message if the condition is met.

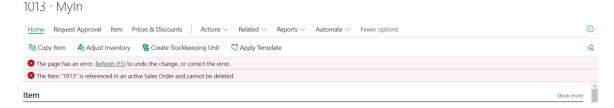
```
// Codeunit to Prevent Item Deletion
[EventSubscriber(ObjectType::Table, Database::Item, OnBeforeDeleteEvent, '', true, true)]
Oreferences
procedure GetRecordfromItem(var Rec: Record Item; RunTrigger: Boolean)

var

SalesLine: Record "Sales Line";
begin
SalesLine.Reset();
SalesLine.SetRange("Document Type", SalesLine."Document Type"::Order);
SalesLine.SetRange("No.", SalesLine."No.");
if SalesLine.FindFirst() then begin

Error('The Item "%1" is referenced in an active Sales Order and cannot be deleted.', Rec."No.");
end
end;
```

o/p:



Flow Data From item to Sales Line by Events Subscriber

```
[EventSubscriber(ObjectType::Table, Database::"Sales Line", OnAfterValidateEvent, "No.", true, true)]

O references

local procedure ItemtoSalesLine(var Rec: Record "Sales Line"; CurrFieldNo: Integer; var xRec: Record "Sales L var

ItemRec: Record Item;

begin

if ItemRec.Get(Rec."No.") then begin

Rec."Custom Line" := ItemRec."Custom Field";

end;

end;

end;
```

Flow Data From Vendor to Purchase Header:" When Select the Buy-from Vendor No.

```
// Vendor to Purchase Header While Selection Vendor No
[EventSubscriber(ObjectType::Table, Database::"Purchase Header", OnAfterValidateEvent, "Buy-from Vendor No.",
Oreferences
local procedure VendorToPurchaseHeader(var Rec: Record "Purchase Header"; CurrFieldNo: Integer; var xRec: Rec
var
VendorRec: Record Vendor;

begin
Rec.SetRange("Document Type", Rec."Document Type"::Order);
if VendorRec.get(Rec."Buy-from Vendor No.") then begin
Rec.CustExtDoc := VendorRec."Custom Vendor No";
end;
end;
```

Data Flow From Purchase Header to Gen Jorunal line then Detailed vendor Ledger entry

```
// Purchase Header to Gen Journal Line then Detailed Vendor Ledger entry

[EventSubscriber(ObjectType::Codeunit, Codeunit::"Gen. Jnl.-Post Line", OnAfterInsertDtldVendLedgEntry, '', fal
O references
local procedure OnAfterInsertDetailedVendorLedgEntry(DtldCVLedgEntryBuffer: Record "Detailed CV Ledg. Entry Buf
begin
    DtldVendLedgEntry."Is AEG U" := GenJournalLine."Is AEG";
    DtldVendLedgEntry.Modify();
end;
```

Data Flow From Purchase header to Vendor Ledger entry without Intermediate Tables

```
// Flow Data Purchase Header to Vendor Ledger entries:
[EventSubscriber(ObjectType::Codeunit, Codeunit::"Purch.-Post", OnAfterPostInvoice, '', false, false)]
O references
local procedure PurchaseHeaderToVendorLedgernetry(TotalPurchLine: Record "Purchase Line"; TotalPurchLineLCY: Revar

begin

VendorLedgerEntry."Is AEG U" := PurchHeader."IS AEGU";
VendorLedgerEntry.Modify();
end;
```

SETRANGE AND SETFILTER USE

```
procedure Balancecount()
    CustomerRec: Record Customer;
    TOtalCustomer: Integer;
begin
    TOtalCustomer := 0;
   CustomerRec.Reset();
   // CustomerRec.SetRange(Balance, 10000);// filter Balance=10000
    CustomerRec.SetFilter(Balance, '>=%1', 10000);// filter Balance>=10000
   or without count By Findset
    if CustomerRec.FindSet() then begin
        repeat
            TOtalCustomer += 1;
       Until CustomerRec.Next() = 0;
        Message('total customer %1', TOtalCustomer);
    end;
end;
```

Scenario:

Create a Codeunit to process customer ledger entries. Fetch all customer ledger entries where the "Remaining Amount" is greater than 10,000, calculate the total "Remaining Amount," and display it.

Hints:

- Use SETRANGE or SETFILTER to filter records.
- Use CALCSUM to calculate the total.
- Use CALCFIELDS for the "Remaining Amount" FlowField.

```
// Create a Codeunit to process customer ledger entries. Fetch all customer ledger entries where the "Remaining Amount" is greater than 10,000,
// calculate the total "Remaining Amount," and display it.

[EventSubscriber(ObjectType::Page, Page::"Customer Ledger Entries", OnOpenPageEvent, '', true, true)]

procedure FetchCustomerledgerentrybasedonRemainingAmt()

var

CustomerledgerEntry_rec: Record "Cust. Ledger Entry";

TotalRemainingAMt: = 0;
CustomerledgerEntry_rec. Reset();
CustomerledgerEntry_rec. Reset();
CustomerledgerEntry_rec. SetFilter("Remaining Amount", '>%1', 10000);
Message('Total Customer > 10000 Remaining Amt are %1', CustomerledgerEntry_rec. Count());
if CustomerledgerEntry_rec. FindSet() then begin
repeat

CustomerledgerEntry_rec. Remaining Amount");
TotalRemainingAMt := TotalRemainingAMt + CustomerledgerEntry_rec. "Remaining Amount";

until CustomerledgerEntry_rec. Next() = 0;
Message('The Sum of Remaining Amt > 10000 %1 is ', TotalRemainingAMt);

end;

end;
```

Create a function that fetches all Sales Orders where the "Order Date" is within the last 30 days. Display these records in a message.

String Functions Logic Practice:ce:

```
Newstr := 'Sachin SHarma';
   ModifyStr := StrLen(Newstr);
   Message('%1', ModifyStr);
   NewModify := CopyStr(Newstr, 8, 3);
   Message(NewModify);
   NewModify := UpperCase(Newstr);
   Message(NewModify);
   NewModify := LowerCase(Newstr);
   Message(Newstr);
   NewModify := ConvertStr(Newstr, 'S', 'A');
   Message(NewModify);
   NewModify := SelectStr(2, 'Hello, Sachin, Sharma'); // Select substring of comma
   Message(NewModify);
   Custom := ' Sachin SHarma ';
   if Custom.Trim() = Newstr then    // Compare & Remove White Spaces
       Message('SpaceS Removed')
       Message('SPaced Not Removed');
end;
```

Amount <10000 Change color of the Sale order List

```
1 // Add changes to page layout here
           modify(Amount)
                ApplicationArea = ALl;
                Style = Attention;
               StyleExpr = Changecolor_gln;
11
            // Add changes to page actions here
        // Change color Based on AMount
        local procedure Changecolor()
        begin
           if Rec.Amount > 10000 then
               Changecolor_gln := false // Global Var & called at Field also
           else
               Changecolor_gln := true;
        trigger OnAfterGetRecord()
            Changecolor();
            Changecolor_gln: Boolean;
```

Value Description

None None

Standard Standard

StandardAccent Blue

Strong Bold

StrongAccent Blue + Bold

Attention Red + Italic

AttentionAccent Blue + Italic

Favorable Bold + Green

Unfavorable Bold + Italic +

Red

Ambiguous Yellow

Subordinate Grey