Sub GroupSSNITWithAllEntries()

Dim mainFolder As String, outputFile As String

Dim yearFolder As String, filePath As String

Dim year As Integer, month As Integer

Dim monthNames As Variant, uniqueSSNITs As Collection

Dim wbSource As Workbook, wbOutput As Workbook

Dim wsSource As Worksheet, wsOutput As Worksheet

Dim ssnit As String, outputRow As Long, i As Integer

Dim dict As Object

' Initialize

mainFolder = "C:\Users\USER\Desktop\STALLION TIGER COMPANY LTD\"

outputFile = "C:\Users\USER\Desktop\SSNIT\_Grouped\_Audit.xlsx"

monthNames = Array("jan", "feb", "mar", "apr", "may", "jun", "jul", "aug", "sep", "oct", "nov", "dec")

' Create output workbook

Set wbOutput = Workbooks.Add

Set wsOutput = wbOutput.Sheets(1)

wsOutput.Range("A1:D1").Value = Array("SSNIT", "Name", "Salary", "Source")

outputRow = 2

' Dictionary to track unique SSNITs and their data

Set dict = CreateObject("Scripting.Dictionary")

' === STEP 1: Collect all unique SSNITs ===

Set uniqueSSNITs = New Collection

For year = 2014 To 2024

yearFolder = mainFolder & year & "\"

For month = LBound(monthNames) To UBound(monthNames)

filePath = yearFolder & monthNames(month) & year & ".xlsx"

If Dir(filePath) <> "" Then

Set wbSource = Workbooks.Open(filePath, ReadOnly:=True)

Set wsSource = wbSource.Sheets(1)

For Each cell In wsSource.Range("A2:A" & wsSource.Cells(Rows.Count, 1).End(xlUp).Row)

ssnit = cell.Value

If Not dict.Exists(ssnit) Then

dict.Add ssnit, 1

uniqueSSNITs.Add ssnit

End If

Next cell

wbSource.Close False

End If

Next month

Next year

' === STEP 2: Process files AGAIN, but group by SSNIT ===

For i = 1 To uniqueSSNITs.Count

ssnit = uniqueSSNITs(i)

For year = 2014 To 2024

yearFolder = mainFolder & year & "\"

For month = LBound(monthNames) To UBound(monthNames)

filePath = yearFolder & monthNames(month) & year & ".xlsx"

If Dir(filePath) <> "" Then

Set wbSource = Workbooks.Open(filePath, ReadOnly:=True)

Set wsSource = wbSource.Sheets(1)

For Each cell In wsSource.Range("A2:A" & wsSource.Cells(Rows.Count, 1).End(xlUp).Row)

If cell.Value = ssnit Then

wsOutput.Cells(outputRow, 1).Value = ssnit

wsOutput.Cells(outputRow, 2).Value = cell.Offset(0, 1).Value ' Name

wsOutput.Cells(outputRow, 3).Value = cell.Offset(0, 2).Value ' Salary

wsOutput.Cells(outputRow, 4).Value = monthNames(month) & " " & year ' Source

outputRow = outputRow + 1

End If

Next cell

wbSource.Close False

End If

Next month

Next year

' Add blank row separator between SSNITs

outputRow = outputRow + 1

Next i

' Save and close

Application.DisplayAlerts = False

wbOutput.SaveAs outputFile

Application.DisplayAlerts = True

wbOutput.Close

MsgBox "SSNIT audit grouped by number created!", vbInformation

End Sub