Sub RestructureNNESTMetalsData()

Dim mainFolderPath As String

Dim newMainFolderPath As String

Dim inputFile As String

Dim outputFile As String

Dim ws As Worksheet

Dim newWb As Workbook

Dim lastRow As Long

Dim monthAbbr As Variant

Dim year As Variant

Dim yearFolderPath As String

Dim newYearFolderPath As String

Dim monthIndex As Integer

Dim fileFound As Boolean

Dim monthNameFull As Variant

*' Define the main folder path (N.N.EST.METALS folder on the desktop)*

mainFolderPath = "C:\Users\USER\Desktop\N.N.EST.METALS\"

*' Create a new main folder called N.N.EST.METALS\_Restructured*

newMainFolderPath = "C:\Users\USER\Desktop\N.N.EST.METALS\_Restructured\"

If Dir(newMainFolderPath, vbDirectory) = "" Then

MkDir newMainFolderPath

End If

*' Define month abbreviations and full names for file naming*

monthAbbr = Array("JAN", "FEB", "MAR", "APR", "MAY", "JUN", \_

"JUL", "AUG", "SEP", "OCT", "NOV", "DEC")

monthNameFull = Array("JANUARY", "FEBRUARY", "MARCH", "APRIL", "MAY", "JUNE", \_

"JULY", "AUGUST", "SEPTEMBER", "OCTOBER", "NOVEMBER", "DECEMBER")

*' Define the years to process*

Dim years As Variant

years = Array("2016", "2017", "2018", "2019", "2021", "2022")

*' Loop through each year*

For Each year In years

*' Get the full path of the year subfolder*

yearFolderPath = mainFolderPath & year & "\"

*' Check if the year subfolder exists*

If Dir(yearFolderPath, vbDirectory) <> "" Then

*' Create a corresponding new year subfolder in the N.N.EST.METALS\_Restructured folder*

newYearFolderPath = newMainFolderPath & year & "\"

If Dir(newYearFolderPath, vbDirectory) = "" Then

MkDir newYearFolderPath

End If

*' Loop through each month (12 months)*

For monthIndex = LBound(monthAbbr) To UBound(monthAbbr)

*' Define the input file name based on provided naming convention*

inputFile = "N N EST. METALS " & monthNameFull(monthIndex) & " " & year & " 2ND TIER.xlsx"

*' Define the output file name in consistent format (e.g., JAN2016.xlsx)*

outputFile = monthAbbr(monthIndex) & year & ".xlsx"

*' Define full file paths*

oldFilePath = yearFolderPath & inputFile

newFilePath = newYearFolderPath & outputFile

*' Check if the input file exists*

If Dir(oldFilePath) <> "" Then

fileFound = True

Application.ScreenUpdating = False

*' Open the input workbook*

Set newWb = Workbooks.Add

Workbooks.Open Filename:=oldFilePath

Set ws = ActiveWorkbook.Sheets(1) *' Assuming data is in Sheet 1*

*' Find the last row with data in Column B (SSNIT)*

lastRow = ws.Cells(ws.Rows.Count, "B").End(xlUp).Row

*' Check if there's actual data (rows beyond header)*

If lastRow > 7 Then

*' Set headers in lowercase as requested*

newWb.Sheets(1).Range("A1").Value = "ssnit"

newWb.Sheets(1).Range("B1").Value = "name"

newWb.Sheets(1).Range("C1").Value = "salary"

*' Copy data from original to new workbook*

ws.Range("B8:B" & lastRow).Copy newWb.Sheets(1).Range("A2")

*' Combine name columns (C, D, E)*

Dim i As Long

For i = 8 To lastRow

newWb.Sheets(1).Cells(i - 6, 2).Value = \_

Trim(ws.Cells(i, "C").Value & " " & \_

ws.Cells(i, "D").Value & " " & \_

ws.Cells(i, "E").Value)

Next i

*' Copy salary data (Column F)*

ws.Range("F8:F" & lastRow).Copy newWb.Sheets(1).Range("C2")

*' Save the new workbook*

newWb.SaveAs Filename:=newFilePath, FileFormat:=xlOpenXMLWorkbook

newWb.Close SaveChanges:=True

Else

*' No data found beyond headers*

newWb.Close SaveChanges:=False

Debug.Print "No data found in: " & oldFilePath

End If

*' Close the input workbook*

ActiveWorkbook.Close SaveChanges:=False

Application.ScreenUpdating = True

Else

fileFound = False

*' Notify if the file is missing*

Debug.Print "File not found: " & oldFilePath

End If

Next monthIndex

Else

*' Notify if the year subfolder is missing*

Debug.Print "Year folder not found: " & yearFolderPath

End If

Next year

Application.ScreenUpdating = True

MsgBox "N.N.EST.METALS data restructuring completed successfully!", vbInformation

End Sub