Option Explicit

'Compare 2 sheets based on a column

Const file2 = "C:\Users\vv20289\Desktop\Asia EMEA Tracker Master.xlsm"

Const file1 = "C:\Users\vv20289\Desktop\Demand\Asia Q1 2019 Fitment - In Principle Approval 20180824.xlsx"

Const rel = "R1"

Const f1ColName = "OPPM"

Const f2ColName = "OPPM"

Public lastRow As Integer

Public lastCol As Integer

Public col As Integer

Sub CompareSheet()

Dim f1Array(500, 10) As String

Dim r As Integer

'Dim c As Integer

Dim o As Integer

Dim x As Integer

Dim y As Integer

Dim z As Integer

Dim f1Col As Integer

Dim f2Col As Integer

Dim lastChar As Integer

Dim srcFile1 As String

Dim srcFile2 As String

Dim res As Range

'Dim f1Arrayrange As Range

'Dim rng As Range

Dim Wb1 As Workbook

Dim Wb2 As Workbook

Debug.Print "Program Started"

Debug.Print "==============="

'Check if the input files exists

If Dir(file1) = vbNullString Then

MsgBox "Source sheet not found"

End

End If

If Dir(file2) = vbNullString Then

MsgBox "Tracker sheet not found"

End

End If

'Get position of last \ in file1 path

lastChar = InStrRev(file1, "\")

'Get file1 name

srcFile1 = Mid(file1, lastChar + 1)

Debug.Print "Source file 1 - " & srcFile1

'Get position of last \ in file2 path

lastChar = InStrRev(file2, "\")

'Get file2 name

srcFile2 = Mid(file2, lastChar + 1)

Debug.Print "Source file 2 - " & srcFile2

Debug.Print " "

'Open workbook in file1

On Error Resume Next

Set Wb1 = Workbooks.Item(file1)

If Wb1 Is Nothing Then

Workbooks.Open (file1)

End If

'Open workbook in file2

Set Wb2 = Workbooks.Item(srcFile2)

If Wb2 Is Nothing Then

Workbooks.Open (file2)

End If

'Deactivate screen update

Application.ScreenUpdating = False

'Activate sheet

Workbooks(srcFile1).Activate

If ActiveSheet.AutoFilterMode Then

If ActiveSheet.FilterMode Then

ActiveSheet.ShowAllData

End If

ElseIf ActiveSheet.FilterMode Then

ActiveSheet.ShowAllData

End If

'Get last populated row

Call findLastRow

Debug.Print "Source file 1 " & srcFile1 & " last row - " & lastRow

'Get last populated col

Call findLastCol

Debug.Print "Source file 1 " & srcFile1 & " last col - " & lastCol

Debug.Print " "

'Get col with heading in f1ColName

f1Col = findColByName(f1ColName, lastCol)

Debug.Print "Source file 1 " & srcFile1 & " col " & f1ColName & " pos - " & f1Col

o = 1

'Store the col in an array

For r = 1 To lastRow

If Cells(r, f1Col) <> f1ColName Then

f1Array(o, 1) = Cells(r, f1Col)

o = o + 1

End If

Next r

'Activate Tracker workbook

Workbooks(srcFile2).Activate

If ActiveSheet.AutoFilterMode Then

If ActiveSheet.FilterMode Then

ActiveSheet.ShowAllData

End If

ElseIf ActiveSheet.FilterMode Then

ActiveSheet.ShowAllData

End If

'Get col with heading "f1Array"

f2Col = findColByName(f2ColName, lastCol)

Debug.Print "Source file 2 " & srcFile2 & " col " & f2ColName & " pos - " & f2Col

Debug.Print " "

Debug.Print "Source file 2 " & srcFile2 & " input - " & o

'Find the f1Array # from array in tracker and update/insert

z = 0

For x = 1 To o

'If x = 119 Then

' Debug.Print "Stop"

'End If

'Set res = Range("D2:D500").Find(f1Array(x, 1), LookIn:=xlValues)

Set res = Range(Cells(2, f2Col), Cells(500, f2Col)).Find(f1Array(x, 1), LookIn:=xlValues)

If res Is Nothing Then

Debug.Print f1Array(x, 1) & " not found in file2 "

z = z + 1

End If

ExitFor:

Next x

'Close workbooks

Workbooks(file1).Close

'Workbooks(file2).Close

Application.ScreenUpdating = True

Debug.Print " "

Debug.Print "Audit Trail"

Debug.Print "============="

Debug.Print "Source file " & srcFile1 & " input - " & o

Debug.Print "Records not found in " & srcFile2 & " - " & z

Debug.Print "Difference - " & o - z

Debug.Print " "

Debug.Print "Program Ended"

Debug.Print "============="

End

error:

MsgBox "Error : " & Err.Number & " " & Err.Description

Application.ScreenUpdating = True

End

End Sub

Sub findLastRow()

lastRow = Cells(Rows.Count, 1).End(xlUp).row

'Debug.Print lastRow

End Sub

Sub findLastCol()

lastCol = Cells(1, Columns.Count).End(xlToLeft).Column

'Debug.Print lastCol

End Sub

Function findColByName(colName As String, lastCol As Integer) As Integer

For col = 1 To lastCol

If Cells(1, col) = colName Then

Exit For

End If

Next col

findColByName = col

End Function