Option Explicit

'Option Private Module

'Update Tracker from Demand sheet

Const demandSheet = "C:\Users\vv20289\Desktop\Demand\Asia Q1 2019 Fitment - Post RPC BOW 20181012 (Publish).xlsx"

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

Const rel = "R1"

Public lastRow As Integer

Public lastCol As Integer

Public col As Integer

Sub UpdateRelTracker()

Dim oppm(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 addCnt As Integer

Dim updateCnt As Integer

Dim doppmCol As Integer

Dim ddescCol As Integer

Dim dstatusCol As Integer

Dim de0Col As Integer

Dim dregionCol As Integer

Dim dbsgleadCol As Integer

Dim dbsgCol As Integer

Dim dpvCol As Integer

Dim dpmCol As Integer

Dim depicCol As Integer

Dim ddeptCol As Integer

Dim toppmCol As Integer

Dim ttotusCol As Integer

Dim tdescCol As Integer

Dim tstatusCol As Integer

Dim taddDteCol As Integer

Dim tbsgleadCol As Integer

Dim tbsgCol As Integer

Dim tpvCol As Integer

Dim tpmCol As Integer

Dim te0DemandCol As Integer

Dim te0Col As Integer

Dim tbaAllocCol As Integer

Dim tba80Col As Integer

Dim tba20Col As Integer

Dim tremcol As Integer

Dim tepicCol As Integer

Dim tdeptCol As Integer

Dim lastChar As Integer

Dim demandFile As String

Dim trackerFile As String

Dim bkupFileName As String

Dim totusFormula As String

Dim tbaallocFormula As String

Dim sumE0Fromula As String

Dim sum80Formula As String

Dim sum20Formula As String

Dim updateFlag As String

Dim res As Range

Dim oppmrange As Range

Dim rng As Range

Dim dWb As Workbook

Dim tWb As Workbook

'On Error GoTo error

Debug.Print "Program Started"

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

'Backup tracker file which will be updated

bkupFileName = Replace(trackerSheet, ".xlsm", " " & Format(Now, "dd-mmm")) & ".xlsm"

'FileCopy trackerSheet, bkupFileName

'Check if the input files exists

If Dir(demandSheet) = vbNullString Then

MsgBox "Demand sheet not found"

End

End If

If Dir(trackerSheet) = vbNullString Then

MsgBox "Tracker sheet not found"

End

End If

'Get position of last \

lastChar = InStrRev(demandSheet, "\")

'Get Demand file name

demandFile = Mid(demandSheet, lastChar + 1)

Debug.Print "Demand file - " & demandFile

'Get position of last \

lastChar = InStrRev(trackerSheet, "\")

'Get Demand file name

trackerFile = Mid(trackerSheet, lastChar + 1)

Debug.Print "Tracker file - " & trackerFile

Debug.Print " "

'Open Demand workbook

On Error Resume Next

Set dWb = Workbooks.Item(demandSheet)

If dWb Is Nothing Then

Workbooks.Open (demandSheet)

End If

'Open Tracker workbook

Set tWb = Workbooks.Item(trackerFile)

If tWb Is Nothing Then

Workbooks.Open (trackerSheet)

End If

'Deactivate screen update

Application.ScreenUpdating = False

'Activate Demand sheet

Workbooks(demandFile).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 "Last row in Demand file - " & lastRow

'Get last populated col

Call findLastCol

Debug.Print "Last col in Demand file - " & lastCol

Debug.Print " "

'Get col position with heading

doppmCol = findColByName("OPPM", lastCol)

ddescCol = findColByName("OPPM Description", lastCol)

de0Col = findColByName("Cards", lastCol)

dstatusCol = findColByName("Status", lastCol)

dregionCol = findColByName("RPC Market / Region View", lastCol)

dbsgleadCol = findColByName("IBIS Sr.Solution Lead", lastCol)

dbsgCol = findColByName("IBIS Solution Lead", lastCol)

dpvCol = findColByName("PV #", lastCol)

dpmCol = findColByName("PM Name", lastCol)

depicCol = findColByName("Standard Agile Epic", lastCol)

ddeptCol = findColByName("IBIS Department", lastCol)

o = 1

'Store the oppm / PV in an array

For r = 1 To lastRow

If Cells(r, doppmCol) <> "OPPM" And \_

Cells(r, de0Col) <> 0 And \_

Cells(r, dregionCol) <> "IN" And \_

Cells(r, dregionCol) <> "TW" And \_

Cells(r, dregionCol) <> "TW/IN" And \_

Cells(r, dregionCol) <> "IN/TW" Then

oppm(o, 1) = Cells(r, doppmCol) 'OPPM

oppm(o, 2) = Cells(r, ddescCol) 'Desc

oppm(o, 3) = Cells(r, de0Col) 'E0

oppm(o, 4) = Cells(r, dbsgleadCol) 'BSG Lead

oppm(o, 5) = Cells(r, dbsgCol) 'BSG

oppm(o, 6) = Cells(r, dpvCol) 'PV

oppm(o, 7) = Cells(r, dpmCol) 'PM

oppm(o, 8) = Cells(r, dstatusCol) 'Status

oppm(o, 9) = Cells(r, depicCol) 'Epic Id

oppm(o, 10) = Cells(r, ddeptCol) 'Department

o = o + 1

End If

Next r

'Debug.Print "Demand file " & demandFile & " input - " & o

Debug.Print " "

'Activate Tracker workbook

Workbooks(trackerFile).Activate

If ActiveSheet.Name <> rel & " 19" Then

MsgBox "Select correct sheet"

Application.ScreenUpdating = True

End

End If

If ActiveSheet.AutoFilterMode Then

If ActiveSheet.FilterMode Then

ActiveSheet.ShowAllData

End If

ElseIf ActiveSheet.FilterMode Then

ActiveSheet.ShowAllData

End If

'Get col position with heading

toppmCol = findColByName("OPPM", lastCol)

ttotusCol = findColByName("Total US", lastCol)

tdescCol = findColByName("Description", lastCol)

tstatusCol = findColByName("Status", lastCol)

taddDteCol = findColByName("Added Date", lastCol)

tbsgleadCol = findColByName("BSG Lead", lastCol)

tbsgCol = findColByName("BSG", lastCol)

tpvCol = findColByName("PV", lastCol)

tpmCol = findColByName("PM", lastCol)

te0DemandCol = findColByName("E0 from Demand", lastCol)

te0Col = findColByName("E0", lastCol)

tbaAllocCol = findColByName("BA Allocation", lastCol)

tba80Col = findColByName("80% Allocation", lastCol)

tba20Col = findColByName("20% Allocation", lastCol)

tremcol = findColByName("Remarks", lastCol)

tepicCol = findColByName("Epic Id", lastCol)

tdeptCol = findColByName("Department", lastCol)

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

addCnt = 0

updateCnt = 0

For x = 1 To 500

If x > o Then 'read array until input count

GoTo ExitFor

End If

Set res = Range("b2:b500").Find(oppm(x, 1), LookIn:=xlValues)

If res Is Nothing Then 'OPPM not found in tracker

Call findLastRow

'Insert row below the current row using the formatting of above row

Rows(lastRow).Insert shift:=xlShiftDown, copyorigin:=xlFormatFromLeftOrAbove

'Assign values and formula in new

Cells(lastRow, 1) = Cells(lastRow, 1).Offset(-1, 0).Value 'Release

Cells(lastRow, toppmCol) = oppm(x, 1) 'OPPM

Cells(lastRow, tdescCol) = oppm(x, 2) 'Desc

Cells(lastRow, tstatusCol) = "Grooming Not Started" 'Status

Cells(lastRow, te0DemandCol) = oppm(x, 3) 'E0

Cells(lastRow, taddDteCol) = DateValue(Now()) 'Date Added

Cells(lastRow, tbsgleadCol) = oppm(x, 4) 'BSG Lead

Cells(lastRow, tbsgCol) = oppm(x, 5) 'BSG

Cells(lastRow, tpvCol) = oppm(x, 6) 'PV

Cells(lastRow, tpmCol) = oppm(x, 7) 'PM

Cells(lastRow, tepicCol) = oppm(x, 9) 'Epic Id

Cells(lastRow, tdeptCol) = oppm(x, 10) 'Department

'usLinkFormula = "=HYPERLINK('"#'"&CELL('"address'",INDEX(" & rel & " 19 US'" & \_

"!B:B,MATCH(" & lastRow & ",'" & rel & " 19 US'" & \_

"!B:B,0)))," & lastRow & ")"

'totusFormula = "=COUNTIF(" & "'" & rel & " 19 US" & "'" & "!$B:$B," & "B" & lastRow & ")"

'Cells(lastRow, ttotusCol).Formula = totusFormula

sumE0Fromula = "=SUM(AQ" & lastRow & ":BN" & lastRow & ")"

Cells(lastRow, te0Col).Formula = sumE0Fromula

tbaallocFormula = "=SUM(AX" & lastRow & ",AY" & lastRow & ",AZ" & lastRow & \_

",BA" & lastRow & ",BE" & lastRow & ",BF" & lastRow & \_

",BG" & lastRow & ",BJ" & lastRow & ",BK" & \_

lastRow & "\*1.66\*13%)"

Cells(lastRow, tbaAllocCol).Formula = tbaallocFormula

sum80Formula = "=AN" & lastRow & "\*80%"

Cells(lastRow, tba80Col).Formula = sum80Formula

sum20Formula = "=AN" & lastRow & "\*20%"

Cells(lastRow, tba20Col).Formula = sum20Formula

Debug.Print oppm(x, 1) & " added at row " & lastRow

Debug.Print " "

addCnt = addCnt + 1

Else 'OPPM found

Range(res.Address).Select

y = Range(res.Address).row

updateFlag = "N"

If oppm(x, 8) = "RCR OUT" Then

Cells(y, tstatusCol) = "Dropped"

Cells(y, tremcol) = Format(Now, "dd-mmm") & ": #Status updated" & Chr(10) & Cells(y, tremcol).Value

updateFlag = "Y"

Debug.Print "Status updated - " & oppm(x, 8) & " for " & oppm(x, 1)

Debug.Print " "

End If

If Cells(y, te0DemandCol).Value <> oppm(x, 3) Then

Cells(y, te0DemandCol).Value = oppm(x, 3)

Cells(y, tremcol) = Format(Now, "dd-mmm") & ": #E0 updated" & Chr(10) & Cells(y, tremcol).Value

updateFlag = "Y"

Debug.Print "E0 updated - " & oppm(x, 3) & " for " & oppm(x, 1)

Debug.Print " "

End If

If Cells(y, tbsgleadCol).Value <> oppm(x, 4) Then

Cells(y, tbsgleadCol).Value = oppm(x, 4)

Cells(y, tremcol) = Format(Now, "dd-mmm") & ": #BSG Lead updated" & Chr(10) & Cells(y, tremcol).Value

updateFlag = "Y"

Debug.Print "BSG Lead updated - " & oppm(x, 4) & " for " & oppm(x, 1)

Debug.Print " "

End If

If Cells(y, tbsgCol).Value <> oppm(x, 5) Then

Cells(y, tbsgCol).Value = oppm(x, 5)

Cells(y, tremcol) = Format(Now, "dd-mmm") & ": #BSG updated" & Chr(10) & Cells(y, tremcol).Value

updateFlag = "Y"

Debug.Print "BSG updated - " & oppm(x, 5) & " for " & oppm(x, 1)

Debug.Print " "

End If

If Cells(y, tpvCol).Value <> oppm(x, 6) And \_

oppm(x, 6) <> "-" Then

Cells(y, tpvCol).Value = oppm(x, 6)

Cells(y, tremcol) = Format(Now, "dd-mmm") & ": #PV updated" & Chr(10) & Cells(y, tremcol).Value

updateFlag = "Y"

Debug.Print "PV updated - " & oppm(x, 6) & " for " & oppm(x, 1)

Debug.Print " "

End If

If Cells(y, tpmCol).Value <> oppm(x, 7) Then

Cells(y, tpmCol).Value = oppm(x, 7)

Cells(y, tremcol) = Format(Now, "dd-mmm") & ": #PM updated" & Chr(10) & Cells(y, tremcol).Value

updateFlag = "Y"

Debug.Print "PM updated - " & oppm(x, 7) & " for " & oppm(x, 1)

Debug.Print " "

End If

If Cells(y, tepicCol).Value <> oppm(x, 9) Then

Cells(y, tepicCol).Value = oppm(x, 9)

Cells(y, tremcol) = Format(Now, "dd-mmm") & ": #Epic updated" & Chr(10) & Cells(y, tremcol).Value

updateFlag = "Y"

Debug.Print "Epic updated - " & oppm(x, 9) & " for " & oppm(x, 1)

Debug.Print " "

End If

If Cells(y, tdeptCol).Value <> oppm(x, 10) Then

Cells(y, tdeptCol).Value = oppm(x, 10)

Cells(y, tremcol) = Format(Now, "dd-mmm") & ": #Dept updated" & Chr(10) & Cells(y, tremcol).Value

updateFlag = "Y"

Debug.Print "Dept updated - " & oppm(x, 10) & " for " & oppm(x, 1)

Debug.Print " "

End If

If updateFlag = "Y" Then

updateCnt = updateCnt + 1

End If

End If

ExitFor:

Next x

'Debug.Print "Array - "; x

'Close Demand workbook

Workbooks(demandSheet).Close

Application.ScreenUpdating = True

Debug.Print " "

Debug.Print "Audit Trail"

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

Debug.Print "Input from Demand file " & demandFile & " - " & o

Debug.Print "OPPMs added in " & trackerFile & " - " & addCnt

Debug.Print "OPPMs updated in " & trackerFile & " - " & updateCnt

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