Sub THUBOnTimeDepartureReport()

'

'by Karl Drews

'

Dim OriginalFile As Workbook

Dim DateofFile As String

Dim RefDate As Date

Dim RowCount As Long

Dim HubChecker As Long

Dim RowCounter As Long

Application.ScreenUpdating = False

Set OriginalFile = ActiveWorkbook

'Extracts date from cell E2 by taking left-most values to the space " ", then fomatting as m-d-yy

DateofFile = Range("E2").Value

RefDate = DateValue(Left(DateofFile, InStr(DateofFile, " ")))

NameofFile = "THUB On Time Departure " & Format(RefDate, "m-d-yy")

' Save workbook with new name

ActiveWorkbook.SaveAs FileName:="R:\On Time Departure Reports\Thub to Hubs\" & NameofFile & ".xlsb", FileFormat:=50

RowCount = ActiveSheet.UsedRange.Rows.Count

Range("U1").Interior.ColorIndex = 6

Range("U1") = "Adjusted Departure Time"

Range("V1").Interior.ColorIndex = 5

Range("V1") = "BOL Time - ADT"

Range("W1").Interior.ColorIndex = 4

Range("W1") = "Pass"

Range("X1").Interior.ColorIndex = 3

Range("X1") = "Fail"

'An array of Hours that must be added to the request date to determine the last on-time departure

'This array is adusted 2 hours later than the actual table farther below

'This list is Monday through Sunday

'A row of zeros were added and the "WEEKDAY" function changed to Type 2 because of a WEEKDAY \* zero error

HubArray = Array("AB100", "CA200", "FL100", "GA100", "MA200", "MN100", "MO100", "NC100", "NC200", "OH100", "OH200", "ON100", "PA100", "TX100", "TX200", "UT100", "WA100", "NL100")

DepartureArray = Array(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, \_

37, 49, 33, 33, 33, 37, 35, 35, 35, 39, 39, 31, 33, 37, 37, 34, 49, 28, \_

37, 25, 33, 33, 33, 37, 35, 35, 35, 39, 39, 31, 33, 37, 37, 58, 25, 28, \_

37, 75, 33, 33, 33, 37, 35, 35, 35, 39, 39, 31, 33, 37, 37, 34, 73, 28, \_

61, 51, 64, 64, 64, 61, 59, 64, 64, 61, 61, 61, 64, 61, 61, 58, 49, 61, \_

37, 27, 40, 40, 40, 37, 35, 40, 40, 37, 37, 37, 40, 37, 37, 34, 25, 37, \_

85, 97, 81, 81, 81, 85, 83, 83, 83, 87, 87, 79, 81, 76, 76, 82, 97, 76, \_

61, 73, 57, 57, 57, 61, 59, 59, 59, 63, 63, 55, 57, 52, 52, 58, 73, 52)

' A C F G M M M N N O O O P T T U W N

' B A L A A N O C C H H N A X X T A L

' 1 2 1 1 2 1 1 1 1 1 2 1 1 1 2 1 1 1

' 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

' 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

'MondayArray = Array(35, 46, 31, 31, 31, 35, 33, 33, 33, 31, 31, 29, 31, 38, 38, 28, 35, 26)

'TuesdayArray = Array(35, 70, 31, 31, 31, 35, 33, 33, 33, 34, 34, 29, 31, 38, 38, 52, 65, 26)

'WednesdayArray = Array(35, 46, 31, 31, 31, 35, 33, 33, 33, 31, 31, 29, 31, 38, 38, 28, 41, 26)

'ThursdayArray = Array(59, 46, 38, 38, 38, 59, 57, 57, 57, 59, 59, 59, 38, 59, 59, 52, 35, 59)

'FridayArray = Array(35, 94, 62, 62, 62, 35, 33, 33, 33, 35, 35, 35, 62, 35, 35, 28, 35, 35)

'SaturdayArray = Array(83, 70, 79, 79, 79, 83, 81, 81, 81, 79, 79, 77, 79, 86, 86, 76, 83, 74)

'SundayArray = Array(59, 46, 55, 55, 55, 59, 57, 57, 57, 55, 55, 53, 55, 62, 62, 52, 59, 50)

'This finds each lines' servicing hub, and then finds the corresponding departure time based on the day of the week

For RowCounter = 2 To RowCount

For HubChecker = LBound(HubArray) To UBound(HubArray)

If Range("A" & RowCounter) = HubArray(HubChecker) Then

Range("U" & RowCounter) = DateAdd("h", DepartureArray(HubChecker + (Weekday(RefDate, 2) \* 18)), RefDate)

If Range("T" & RowCounter) = "" Then

Range("T" & RowCounter) = "No BOL"

End If

End If

Next HubChecker

Next RowCounter

Range("U2:U" & RowCount).NumberFormat = "General"

Range("V2:V" & RowCount).Formula = "=T2-U2"

Range("V2:V" & RowCount) = Range("V2:V" & RowCount).Value

Range("U2:U" & RowCount).NumberFormat = "m/d/yy h:mm AM/PM"

For rowstep = 2 To RowCount

On Error Resume Next

If Range("V" & rowstep).Value > 0 Then

On Error GoTo 0

Range("X" & rowstep) = "Fail"

Else

Range("W" & rowstep) = "Pass"

End If

Next

format\_worksheet.main

Range("V1").Font.ColorIndex = 2

Range("A1").Select

Sheets.Add

ActiveWorkbook.PivotCaches.Create(SourceType:=xlDatabase, SourceData:= \_

("Master!A1:x" & RowCount), Version:=xlPivotTableVersion15).CreatePivotTable \_

TableDestination:="Sheet2!R3C1", TableName:="PivotTable1", DefaultVersion \_

:=xlPivotTableVersion15

With ActiveSheet.PivotTables("PivotTable1").PivotFields("SERV\_DC")

.Orientation = xlRowField

.Position = 1

End With

ActiveSheet.PivotTables("PivotTable1").AddDataField ActiveSheet.PivotTables( \_

"PivotTable1").PivotFields("ITEM\_ID"), "Count of ITEM\_ID", xlCount

ActiveSheet.PivotTables("PivotTable1").AddDataField ActiveSheet.PivotTables( \_

"PivotTable1").PivotFields("Pass"), "Count of Pass", xlCount

ActiveSheet.PivotTables("PivotTable1").AddDataField ActiveSheet.PivotTables( \_

"PivotTable1").PivotFields("Fail"), "Count of Fail", xlCount

'Creates Summary worksheet and deletes Pivot

Sheets("Master").Name = "Detail"

Sheets.Add.Name = "Summary"

Worksheets("Sheet2").Activate

RowCount = ActiveSheet.UsedRange.Rows.Count + 1

Range("A4:D" & RowCount).Copy Destination:=Worksheets("Summary").Range("A3")

Sheets("Summary").Activate

Range("A1:F1").Merge

Range("A1:F1") = "THUB On-Time Departure Rate " & Format(RefDate, "m-d-yy")

Range("A2") = "Hub"

Range("B2") = "Total Sold Requests"

Range("C2") = "On-Time Departure"

Range("D2") = "Late Departure"

Range("E2") = "On Time %"

Range("F2") = "Late %"

Range("A1:F" & RowCount).Font.Name = "Calibri"

Range("A1:F2").Font.Bold = True

Range("A1:F1").Font.Size = 14

Range("A2:F2").Font.Size = 12

Range("A" & RowCount) = "Grand Total"

Range("B" & RowCount).Value = Application.Sum(Range("B3:B" & RowCount))

Range("C" & RowCount).Value = Application.Sum(Range("C3:C" & RowCount))

Range("D" & RowCount).Value = Application.Sum(Range("D3:D" & RowCount))

Range("B3:D" & RowCount).NumberFormat = "#,##0"

Range("E3:E" & RowCount).Formula = "=C3/B3"

Range("F3:F" & RowCount).Formula = "=D3/B3"

Range("E3:F" & RowCount).NumberFormat = "0.0%"

Range("A3:F" & RowCount).Font.Size = 11

With Range("A1:F" & RowCount)

.EntireColumn.AutoFit

.HorizontalAlignment = xlCenter

End With

For Each cell In Range("A1:F" & RowCount)

If Len(cell.Value) = 0 Then

cell.Value = 0

End If

Next

For Each BorderIndex In Array(xlEdgeTop, xlEdgeLeft, xlEdgeBottom, xlEdgeRight, xlInsideHorizontal, xlInsideVertical)

With Range("A1:F" & RowCount).Borders(BorderIndex)

.Weight = xlThin

.ColorIndex = xlAutomatic

End With

Next BorderIndex

Application.DisplayAlerts = False

Sheets("Sheet2").Delete

Sheets("Sheet1").Delete

Application.DisplayAlerts = True

Application.ScreenUpdating = True

ActiveWorkbook.Save

End Sub