Sub OnTimeDepartureReport()

'

'by Karl Drews

'

Dim OriginalFile As Workbook

Dim DateofFile As String

Dim RefDate As Date

Dim NameofFile As String

Dim NameofWorkbook As Workbook

Dim SecondSheet As Worksheet

Dim OneSheetCount As Long

Dim RowCount As Long

Dim ExceptionCount As Long

ExceptionCount = 2

Set OriginalFile = ActiveWorkbook

'Extracts date from cell O2 by taking left-most values to the space " ", then formatting as m-d-yy

DateofFile = Range("P2").Value

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

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

' Open and save new workbook

Workbooks.Add

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

Set NameofWorkbook = ActiveWorkbook

'Check to see if there is a second sheet

On Error Resume Next

Set SecondSheet = OriginalFile.Worksheets("Sheet 2")

On Error GoTo 0

'Copy Sheet1 to new workbook

If SecondSheet Is Nothing Then

OneSheetCount = OriginalFile.Sheets("Sheet 1").UsedRange.Rows.Count

OriginalFile.Sheets(1).Range("A1:X" & OneSheetCount).Copy Destination:=NameofWorkbook.Sheets("Sheet1").Range("A1")

Else

OriginalFile.Sheets(1).Range("A1:X65000").Copy Destination:=NameofWorkbook.Sheets("Sheet1").Range("A1")

End If

'Copy Sheet2 to new workbook (if needed)

OriginalFile.Activate

If Not SecondSheet Is Nothing Then

RowCount = OriginalFile.Sheets("Sheet 2").UsedRange.Rows.Count

OriginalFile.Sheets("Sheet 2").Range("A2:X" & RowCount).Copy Destination:=NameofWorkbook.Sheets("Sheet1").Range("A65001")

End If

OriginalFile.Close SaveChanges:=False

'Move new columns "Expedited Flag" and "Expected Departure DT" to later in the report

Columns("K").Cut

Columns("Y").Insert shift:=xlToLeft

Columns("W").Cut

Columns("V").Insert shift:=xlToRight

RowCount = ActiveSheet.UsedRange.Rows.Count

Range("E:F").NumberFormat = "0"

Range("Y1").Interior.ColorIndex = 5

Range("Y1") = "BOL Time - EDA"

Range("Z1").Interior.ColorIndex = 4

Range("Z1") = "Pass"

Range("AA1").Interior.ColorIndex = 3

Range("AA1") = "Fail"

For rowstep = RowCount To 2 Step -1

If Not Range("A" & rowstep) = Range("C" & rowstep) Then

Rows(rowstep).Interior.ColorIndex = 3

End If

If Range("Q" & rowstep) = "" Then

Rows(rowstep).EntireRow.Delete

End If

If Range("R" & rowstep) = "" Then

Range("R" & rowstep) = "No Move To Trailer"

End If

If Range("S" & rowstep) = "" Then

Range("S" & rowstep) = "No Receipt"

End If

If Range("U" & rowstep) = "" And Range("Z" & rowstep) > 0 Then

Rows(rowstep).EntireRow.Delete

ElseIf Range("U" & rowstep) = "" Then

Range("U" & rowstep) = "No BOL"

End If

Next

Range("A2:A" & RowCount).SpecialCells(xlCellTypeBlanks).EntireRow.Delete

RowCount = ActiveSheet.UsedRange.Rows.Count

Sheets.Add.Name = "Sheet2"

Sheets("Sheet1").Rows(1).Copy Destination:=Sheets("Sheet2").Range("A1")

Sheets("Sheet1").Activate

'Creates temporary formulas for our PASS/Fail loop

'BOL-EDA

Range("Y2:Y" & RowCount).Formula = "=U2-Q2"

Range("Y2:Y" & RowCount) = Range("Y2:Y" & RowCount).Value

'Merge date - Pick date = removes "day" (integer) from date for departure time (midnight to 6:00 AM) comparison

Range("AB2:AB" & RowCount).Formula = "=J2-DateValue(O2)"

'Is Original EDA future to the report date?

Range("AC2:AC" & RowCount).Formula = "=Q2-W2"

'Determines Pass/Fail

For rowstep = RowCount To 2 Step -1

On Error Resume Next

'If BOL time greater than Original EDA (error statement helps us Fail items with No BOL)

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

On Error GoTo 0

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

'If EDA is greater than report time

If Range("AC" & rowstep) > 0 Then

Rows(rowstep).EntireRow.Delete

'If Expedite is False and Pick Time is between Midnight and 6 AM

ElseIf Range("X" & rowstep) = "F" And Range("AB" & rowstep) > TimeValue("00:00:01") And Range("AB" & rowstep) < TimeValue("06:00:02") Then

Rows(rowstep).EntireRow.Copy Destination:=Sheets("Sheet2").Range("A" & ExceptionCount)

ExceptionCount = ExceptionCount + 1

Rows(rowstep).EntireRow.Delete

ElseIf Range("X" & rowstep) = "T" And Range("N" & rowstep) = "FTRK" And Range("AA" & rowstep) = "Fail" Then

Rows(rowstep).EntireRow.Copy Destination:=Sheets("Sheet2").Range("A" & ExceptionCount)

ExceptionCount = ExceptionCount + 1

Rows(rowstep).EntireRow.Delete

End If

Else

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

End If

Next

' Delete empty rows and temporary formula columns

Range("A2:A" & RowCount).SpecialCells(xlCellTypeBlanks).EntireRow.Delete

Columns("AB:AC").Delete

Sheets("Sheet2").Columns("AB:AC").Delete

Sheets("Sheet1").Activate

RowCount = ActiveSheet.UsedRange.Rows.Count

'Formats worksheet and creates Pivot Table

format\_workbook.main

Sheets("Sheet1").Range("Y1").Font.ColorIndex = 2

Sheets("Sheet2").Range("Y1").Font.ColorIndex = 2

Sheets("Sheet1").Activate

Range("A1").Select

Sheets.Add.Name = "Sheet3"

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

("Sheet1!A1:AA" & RowCount), Version:=xlPivotTableVersion15).CreatePivotTable \_

TableDestination:="Sheet3!R3C1", TableName:="PivotTable1", DefaultVersion \_

:=xlPivotTableVersion15

With ActiveSheet.PivotTables("PivotTable1").PivotFields("PICKING\_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("Sheet1").Name = "Detail"

Sheets("Sheet2").Name = "Exceptions"

Sheets.Add.Name = "Summary"

Worksheets("Sheet3").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") = "Primary Hub 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:F2").Font.Bold = True

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

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

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

Range("B" & RowCount).Formula = "=Sum(B3:B" & RowCount - 1 & ")"

Range("C" & RowCount).Formula = "=Sum(C3:C" & RowCount - 1 & ")"

Range("D" & RowCount).Formula = "=Sum(D3:D" & RowCount - 1 & ")"

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 = "0.00%"

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("Sheet3").Delete

Application.DisplayAlerts = True

ActiveWorkbook.Save

End Sub