Sub InTransitNoLocMacro()

'by Karl Drews

Dim TodaysDate As String

Dim RowCount As Long

Dim ZeroCount As Long

Dim RefDate As String

Dim NameofFile As String

Dim NameFiller As Integer

Application.ScreenUpdating = True

RowCount = ActiveSheet.UsedRange.Rows.Count

RefDate = Format(Date, "m-d-yy")

NameofFile = "No Location Report " & RefDate & ".xlsx"

ActiveWorkbook.SaveAs FileName:="R:\Distribution Operations Reporting\In Transit No Location reports\" & NameofFile, FileFormat:=51

'Uses concatenation to create a unique HUB+PART key

Range("A1").EntireColumn.Insert

Range("A1") = "Key"

Range("A2:A" & RowCount).Formula = "=CONCATENATE(B2,D2)"

Range("A2:A" & RowCount) = Range("A2:A" & RowCount).Value

RowCount = ActiveSheet.UsedRange.Rows.Count

' Scrubs through all rows and turns "less than zero" figures to zero, and turn all zero figure cells yellow

'Also creates a ZeroCount for future copying and pasting

For Rowstep = 2 To RowCount

If Range("K" & Rowstep) <= 0 Then

Range("K" & Rowstep) = 0

Range("K" & Rowstep).Interior.ColorIndex = 44

ZeroCount = ZeroCount + 1

End If

Next Rowstep

' Sorts Hub Usage column

Columns("A:L").Sort key1:=Range("K2"), order1:=xlAscending, Header:=xlYes

format\_worksheet.main

'Copies all info to a second sheet for removing duplicates, then creates a pivot to count all unique HUB+PART combinations

Sheets.Add.Name = "Sheet2"

Sheets("Sheet1").Range("A1:L" & RowCount).Copy Destination:=Sheets("Sheet2").Range("A1")

Sheets("Sheet2").Range("A1:L" & RowCount).RemoveDuplicates Columns:=1, Header:=xlYes

Sheets("Sheet2").Range("A1").Select

Sheets.Add.Name = "AllPivot"

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

("Sheet2!A1:L" & RowCount), Version:=xlPivotTableVersion15).CreatePivotTable \_

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

:=xlPivotTableVersion15

With ActiveSheet.PivotTables("PivotTable1").PivotFields("Hub")

.Orientation = xlRowField

.Position = 1

End With

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

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

AllPivotCount = ActiveSheet.UsedRange.Rows.Count

'Copies all "zero usage" info to a third sheet for removing duplicates, then creates a pivot to count all unique HUB+PART combinations with zero usage

Sheets.Add.Name = "Sheet3"

Sheets("Sheet1").Range("A1:L" & ZeroCount).Copy Destination:=Sheets("Sheet3").Range("A1")

Sheets("Sheet3").Range("A1:L" & ZeroCount).RemoveDuplicates Columns:=1, Header:=xlYes

Sheets("Sheet3").Range("A1").Select

Sheets.Add.Name = "ZeroPivot"

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

("Sheet3!A1:L" & ZeroCount), Version:=xlPivotTableVersion15).CreatePivotTable \_

TableDestination:="ZeroPivot!R3C1", TableName:="PivotTable2", DefaultVersion \_

:=xlPivotTableVersion15

With ActiveSheet.PivotTables("PivotTable2").PivotFields("Hub")

.Orientation = xlRowField

.Position = 1

End With

ActiveSheet.PivotTables("PivotTable2").AddDataField ActiveSheet.PivotTables( \_

"PivotTable2").PivotFields("Key"), "Count of Key", xlCount

ZeroPivotCount = ActiveSheet.UsedRange.Rows.Count

'Creates Summary worksheet and deletes Pivots

Sheets("Sheet1").Name = "Detail"

Sheets.Add After:=Worksheets(Worksheets.Count)

ActiveSheet.Name = "Summary"

Range("A1:C1").Merge

Range("A1:C1") = "In Transit No Loc Summary " & Format(RefDate, "m-d-yy")

Range("A2") = "Hub"

Range("B2") = "# of Unique Parts"

Range("C2") = "# of Unique Parts w/ No Usage"

' This little part fills in Hub Names on the summary table - Easier than declaring them one by one

NameArray = Array("5HUB", "8HUB", "AHUB", "DHUB", "HHUB", "IHUB", "KHUB", "LHUB", "MHUB", "NHUB", "OHUB", "SHUB", "THUB", "UHUB", "VHUB", "WINO", "YHUB", "Grand Total")

For NameFiller = LBound(NameArray) To UBound(NameArray)

Range("A" & NameFiller + 3) = NameArray(NameFiller)

Next NameFiller

' VLOOKUP off pivot tables

Range("B3:B19").Formula = "=VLOOKUP(A3,AllPivot!A5:B35,2,0)"

Range("B3:B19") = Range("B3:B19").Value

Range("C3:C19").Formula = "=VLOOKUP(A3,ZeroPivot!A5:B35,2,0)"

Range("C3:C19") = Range("C3:C19").Value

' Change blank cells to zero

For Each cell In Range("A1:C19")

If IsError(cell) = True Then

cell.Value = 0

End If

Next

' Clean up table

Range("A1:C20").Font.Name = "Calibri"

Range("A1:C2").Font.Bold = True

Range("A1:C1").Font.Size = 14

Range("A2:C2").Font.Size = 12

Range("B20").Value = Application.Sum(Range("B3:B19"))

Range("C20").Value = Application.Sum(Range("C3:C19"))

Range("B3:C20").NumberFormat = "#,##0"

Range("A3:C20").Font.Size = 11

With Range("A1:C20")

.EntireColumn.AutoFit

.HorizontalAlignment = xlCenter

End With

' Black border around all cells

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

With Range("A1:C20").Borders(BorderIndex)

.Weight = xlThin

.ColorIndex = xlAutomatic

End With

Next BorderIndex

' Delete "Key" column from original sheet

Sheets("Detail").Columns(1).EntireColumn.Delete

' Delete pivots

Application.DisplayAlerts = False

Sheets("AllPivot").Delete

Sheets("ZeroPivot").Delete

Sheets("Sheet2").Delete

Sheets("Sheet3").Delete

Application.DisplayAlerts = True

Application.ScreenUpdating = True

End Sub