Option Explicit

‘loop though entire workbook and apply subroutines GetTickers, GetOpeningVolume, GetclosingVolume

Sub LoopWorkBook()

Dim ws As Worksheet

Worksheets(1).Activate

For Each ws In ThisWorkbook.Worksheets

ws.Activate

Call GetTickers

Call GetOpeningVolume

Call GetClosingVolume

Next ws

End Sub

‘get unqiue ticker values and store them into a data dictionary using an array established on the original ‘data set

Sub GetTickers()

‘set array variable

Dim Ary As Variant

Dim i As Long

'create an array of values from cols A:G

Ary = Range("A2", Range("A" & Rows.Count).End(xlUp).Offset(, 6))

With CreateObject("Scripting.dictionary") 'creates a dictionary

For i = 1 To UBound(Ary) 'loops through the array

If Not .exists(Ary(i, 1)) Then 'checks if the value in col A is in the dictionary

.Add Ary(i, 1), Ary(i, 7) 'if it doesn't exist adds col A as the key & col G as the item

Else

. Item(Ary(i, 1)) = .Item(Ary(i, 1)) + Ary(i, 7) ‘if it does exist adds the value from G to the existing item

End If

Next i

‘Set range to dictionary count

Range("I2").Resize(.Count, 2).Value = Application.Transpose(Array(.keys, .items))

‘write values for headers

Range("I1").Value = "Ticker"

Range("J1").Value = "Tot.Volume"

Cells(4, 17) = Application.WorksheetFunction.Max(Range("J2").Resize(.Count, 1))

End With

Set Ary = Nothing

End Sub

Sub GetOpeningVolume()

‘sets range to the original data in sheet and

On Error Resume Next

Dim Ary As Variant

Dim i As Long

Dim j As Long

'create an array of values from cols A:G

Ary = Range("A2", Range("A" & Rows.Count).End(xlUp).Offset(, 6))

With CreateObject("Scripting.dictionary") 'create a dictionary

For i = 1 To UBound(Ary) 'loop through the array

If Not .exists(Ary(i, 1)) Then 'check if the value in col A is in the dictionary

.Add Ary(i, 1), Ary(i, 3) ‘add if doesn’t exit

End If

Next i

‘writes Opening Values

Range("K2").Resize(.Count, 1).Value = Application.Transpose(Array(.items))

End With

‘write header for opening value column

Range("K1:K1").Value = "Opening"

Set Ary = Nothing

End Sub

Sub GetClosingVolume()

‘here we get the closing volumes in the same fashion as we got opening volumes, but here we will format columns, write ‘final cell values, create the summary and provide some visual appeal

On Error Resume Next

'establish variables

Dim Ary As Variant

Dim i As Long

Dim Ary2 As Variant

'set Range to all cells with data

Ary = Range("A2", Range("A" & Rows.Count).End(xlUp).Offset(, 6)) 'creates an array of values from cols A:G

' create dictionary from array choosing closing volume

With CreateObject("Scripting.dictionary")

Loop array and look for the closing value (which will be the last value for the unique ticker

For i = 1 To UBound(Ary)

If Not .exists(Ary(i, 1)) And Ary(i + 1, 1) <> Ary(i, 1) Then

.Add Ary(i, 1), Ary(i, 6)

End If

Next i

'write tickers, open, close % change formula to new range sized accordingly

Range("L2").Resize(.Count, 1).Value = Application.Transpose(Array(.items))

Range("M2").Resize(.Count, 1).Formula = "=IF(RC[-2]=0,"""",(RC[-1]-RC[-2])/RC[-2])"

Range("M2").Resize(.Count, 1).NumberFormat = "0.00%"

Cells(2, 17) = Application.WorksheetFunction.Max(Range("M2").Resize(.Count, 1))

Cells(2, 17).NumberFormat = "0.00%"

Cells(3, 17) = Application.WorksheetFunction.Min(Range("M2").Resize(.Count, 1))

Cells(3, 17).NumberFormat = "0.00%"

‘find and write summary values

Ary2 = Range("I2").Resize(.Count, 5)

For i = 1 To UBound(Ary2)

If Ary2(i, 2) = Cells(4, 17) Then

Cells(4, 16) = Ary2(i, 1)

Cells(4, 18) = "Max Volume"

End If

‘add a up or down arrow depending on the stock won or lost during the year

If Ary2(i, 5) = Cells(2, 17) Then

Cells(2, 16) = Ary2(i, 1)

Cells(2, 18) = "Max Increase" & " " & ChrW(&H25B2)

End If

If Ary2(i, 5) = Cells(3, 17) Then

Cells(3, 16) = Ary2(i, 1)

Cells(3, 18) = "Max Decrease" & " " & ChrW(&H25BC)

End If

If Ary2(i, 5) < 0 Then

Cells(i + 1, 14) = ChrW(&H25BC) 'down &H25B2

Cells(i + 1, 14).Font.Color = -16776961

End If

If Ary2(i, 5) > 0 Then

Cells(i + 1, 14) = ChrW(&H25B2) 'Up &H25BC

Cells(i + 1, 14).Font.Color = -11489280

End If

Next i

'Select the entire range of grouped Tickers and format cell color (make it look nice)

Range("I1").Resize(.Count, 6).Select

With Selection.Interior

.Pattern = xlSolid

.PatternColorIndex = xlAutomatic

.Color = 11560192

.TintAndShade = 0

.PatternTintAndShade = 0

End With

Range("I2").Resize(.Count, 5).Select

With Selection.Font

.ThemeColor = xlThemeColorDark1

.TintAndShade = 0

End With

Selection.Font.Bold = True

End With

Range("L1:L1").Value = "Closing"

Range("M1:M1").Value = "% Change"

Columns("A:M").Select

Columns("A:N").EntireColumn.AutoFit

Columns("H:H").Select

Selection.ColumnWidth = 5.5

Range("I1:N1").Select

With Selection.Font

.Color = -16711681

.TintAndShade = 0

End With

Selection.Font.Bold = True

Range("M1:N1").Merge

Set Ary = Nothing

Set Ary2 = Nothing

End Sub