VBA Script

TOMalley

Sub Main():

'Set up variables

Dim ticker As String

Dim number\_tickers As Integer

Dim lastRowState As Long

Dim opening\_price As Double

Dim closing\_price As Double

Dim yearly\_change As Double

Dim percent\_change As Double

Dim total\_stock\_volume As Double

Dim greatest\_percent\_increase As Double

Dim greatest\_percent\_increase\_ticker As String

Dim greatest\_percent\_decrease As Double

Dim greatest\_percent\_decrease\_ticker As String

Dim greatest\_stock\_volume As Double

Dim greatest\_stock\_volume\_ticker As String

'Set up worksheet

For Each ws In Worksheets

ws.Activate

'Find last row

lastRowState = ws.Cells(Rows.Count, "A").End(xlUp).Row

'set up headers

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

ws.Range("J1").Value = "Yearly Change"

ws.Range("K1").Value = "Percent Change"

ws.Range("L1").Value = "Total Stock Volume"

'initialize variables

number\_tickers = 0

ticker = ""

yearly\_change = 0

opening\_price = 0

percent\_change = 0

total\_stock\_volume = 0

'set up loop

For i = 2 To lastRowState

'set up ticker

ticker = Cells(i, 1).Value

If opening\_price = 0 Then

opening\_price = Cells(i, 3).Value

End If

'stok values

total\_stock\_volume = total\_stock\_volume + Cells(i, 7).Value

If Cells(i + 1, 1).Value <> ticker Then

number\_tickers = number\_tickers + 1

Cells(number\_tickers + 1, 9) = ticker

'closing price

closing\_price = Cells(i, 6)

'yearly change value

yearly\_change = closing\_price - opening\_price

Cells(number\_tickers + 1, 10).Value = yearly\_change

'set up colors

If yearly\_change > 0 Then

Cells(number\_tickers + 1, 10).Interior.ColorIndex = 4

ElseIf yearly\_change < 0 Then

Cells(number\_tickers + 1, 10).Interior.ColorIndex = 3

Else

Cells(number\_tickers + 1, 10).Interior.ColorIndex = 6

End If

' Calculate percent change value for ticker.

If opening\_price = 0 Then

percent\_change = 0

Else

percent\_change = (yearly\_change / opening\_price)

End If

Cells(number\_tickers + 1, 11).Value = Format(percent\_change, "Percent")

If percent\_change > 0 Then

Cells(number\_tickers + 1, 11).Interior.ColorIndex = 4

ElseIf percent\_change < 0 Then

Cells(number\_tickers + 1, 11).Interior.ColorIndex = 3

Else

Cells(number\_tickers + 1, 11).Interior.ColorIndex = 6

End If

'set opening price

opening\_price = 0

'set total stock volume value

Cells(number\_tickers + 1, 12).Value = total\_stock\_volume

'set total stock volume back to 0

total\_stock\_volume = 0

End If

Next i

'display greatest percent increase, greatest percent decrease, and greatest total volume for each year.

Range("O2").Value = "Greatest % Increase"

Range("O3").Value = "Greatest % Decrease"

Range("O4").Value = "Greatest Total Volume"

Range("P1").Value = "Ticker"

Range("Q1").Value = "Value"

lastRowState = ws.Cells(Rows.Count, "I").End(xlUp).Row

'set up variables

greatest\_percent\_increase = Cells(2, 11).Value

greatest\_percent\_increase\_ticker = Cells(2, 9).Value

greatest\_percent\_decrease = Cells(2, 11).Value

greatest\_percent\_decrease\_ticker = Cells(2, 9).Value

greatest\_stock\_volume = Cells(2, 12).Value

greatest\_stock\_volume\_ticker = Cells(2, 9).Value

For i = 2 To lastRowState

If Cells(i, 11).Value > greatest\_percent\_increase Then

greatest\_percent\_increase = Cells(i, 11).Value

greatest\_percent\_increase\_ticker = Cells(i, 9).Value

End If

If Cells(i, 11).Value < greatest\_percent\_decrease Then

greatest\_percent\_decrease = Cells(i, 11).Value

greatest\_percent\_decrease\_ticker = Cells(i, 9).Value

End If

If Cells(i, 12).Value > greatest\_stock\_volume Then

greatest\_stock\_volume = Cells(i, 12).Value

greatest\_stock\_volume\_ticker = Cells(i, 9).Value

End If

Next i

' set up charts

Range("P2").Value = Format(greatest\_percent\_increase\_ticker, "Percent")

Range("Q2").Value = Format(greatest\_percent\_increase, "Percent")

Range("P3").Value = Format(greatest\_percent\_decrease\_ticker, "Percent")

Range("Q3").Value = Format(greatest\_percent\_decrease, "Percent")

Range("P4").Value = greatest\_stock\_volume\_ticker

Range("Q4").Value = greatest\_stock\_volume

Next ws

End Sub