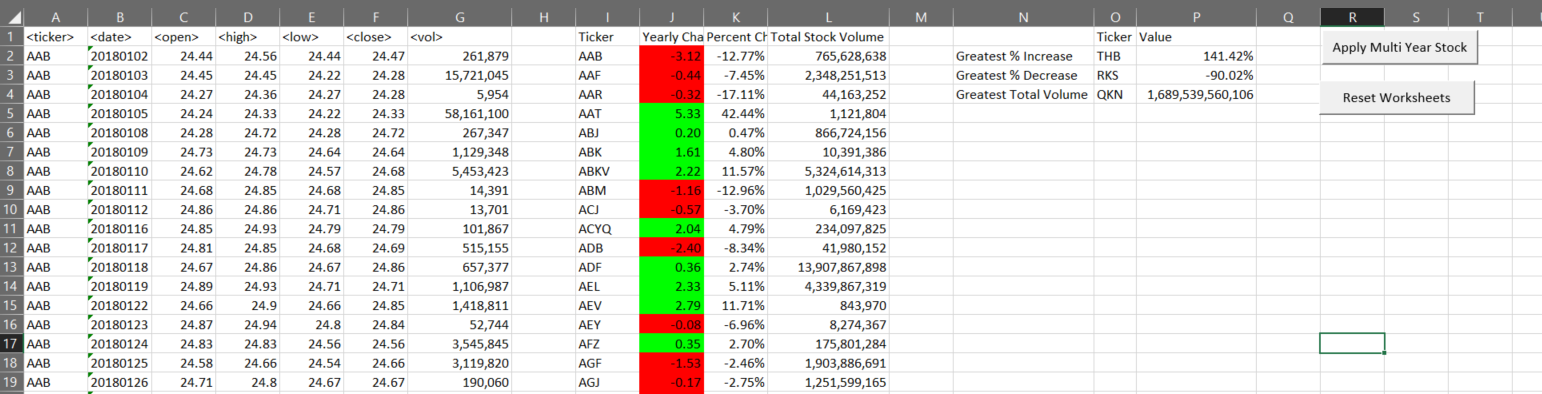
Alan Lawrence

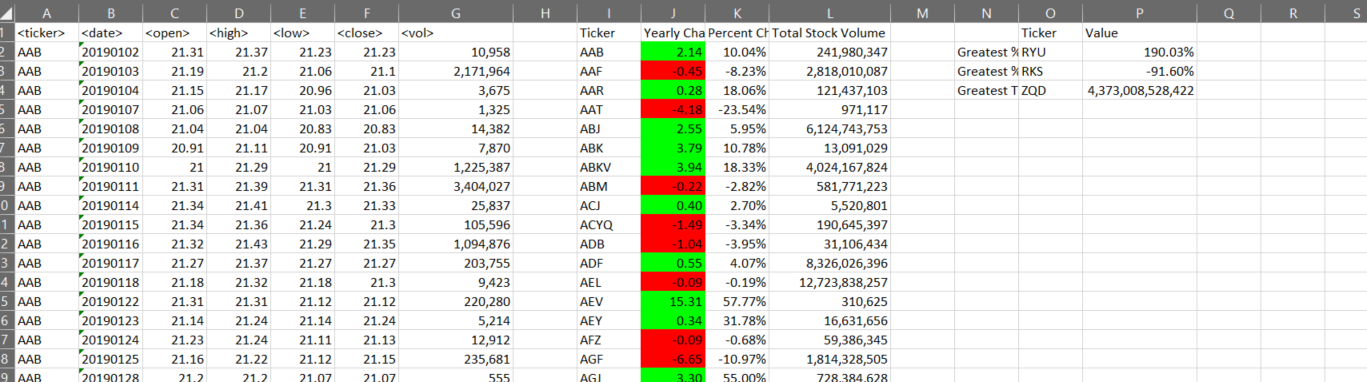
Module 2 HW

10/29/2023

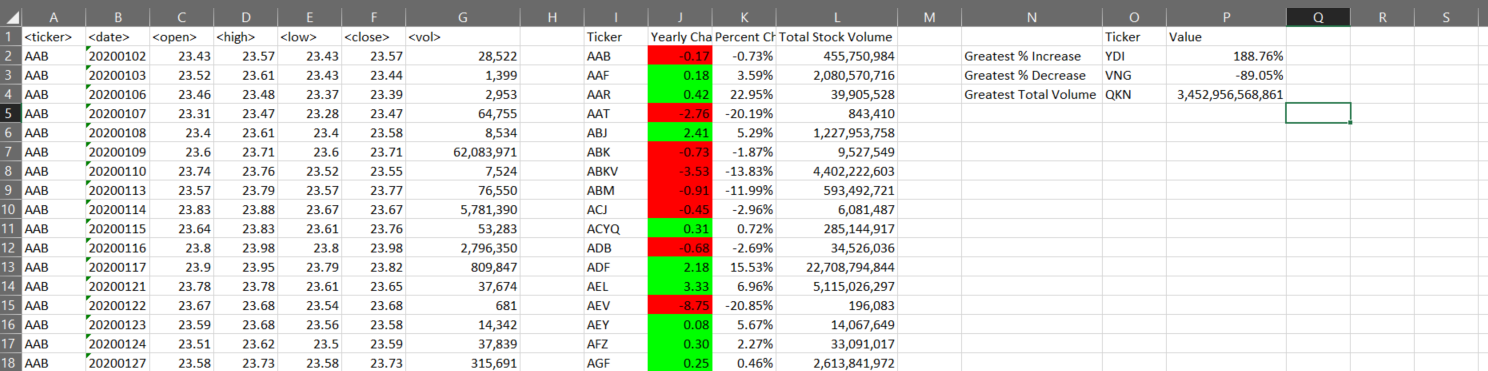
* **2018**



* **2019**



* **2020**



**Code:**

Sub Reset\_Worksheets\_Button():

Dim ws As Worksheet

For Each ws In ThisWorkbook.Worksheets

' Clear contents in range I:P

ws.Range("I:P").ClearContents

' Clear cell interior color (background color)

ws.Range("I:P").Interior.ColorIndex = xlNone

Next ws

End Sub

Sub All\_Stock\_WS\_Button():

Application.ScreenUpdating = True

For Each ws In Worksheets

ws.Activate

ws.Range("I:Q").EntireColumn.AutoFit

ws.Range("P4").NumberFormat = "#,##0"

ws.Range("G:G").NumberFormat = "#,##0"

ws.Range("L:L").NumberFormat = "#,##0"

Call Stock\_WS

Next ws

End Sub

' Create ProcessWS to force variables out of scope between sheets.

Sub Stock\_WS():

' Set up headers

Range("I1:L1") = Array("Ticker", "Yearly Change", "Percent Change", "Total Stock Volume")

Range("O1:P1") = Array("Ticker", "Value")

Range("N2:N4") = Application.Transpose(Array("Greatest % Increase", "Greatest % Decrease", "Greatest Total Volume"))

Range("J:J").NumberFormat = "0.00"

Range("K:K, P2:P3").NumberFormat = "0.00%"

' Define variables

Dim ticker As String

Dim open\_price, year\_changing, percent\_update, volume\_total As Double

Dim increased\_ticker, decreased\_ticker, vol\_ticker As String

Dim best\_increase, best\_decrease, best\_vol As Double

Dim input\_row As Long

Dim output\_row As Integer

' Establish initial conditions

ticker = Range("A2")

open\_price = Range("C2")

volume\_total = Range("G2")

input\_row = 3

output\_row = 2

While (ticker <> "") ' Loop until there is no more data

While (ticker = Cells(input\_row, 1)) ' Loop until arriving at the next ticker symbol

volume\_total = volume\_total + Cells(input\_row, 7)

input\_row = input\_row + 1

Wend

' Assign results to output cells

year\_changing = Cells(input\_row - 1, 6) - open\_price

percent\_update = year\_changing / open\_price

Cells(output\_row, 9) = ticker

Cells(output\_row, 10) = year\_changing

If (year\_changing < 0) Then

Cells(output\_row, 10).Interior.Color = vbRed

ElseIf (year\_changing > 0) Then

Cells(output\_row, 10).Interior.Color = vbGreen

End If

Cells(output\_row, 11) = percent\_update

If (percent\_update < best\_decrease) Then

best\_decrease = percent\_update

decreased\_ticker = ticker

ElseIf (percent\_update > best\_increase) Then

best\_increase = percent\_update

increased\_ticker = ticker

End If

Cells(output\_row, 12) = volume\_total

If (volume\_total > best\_vol) Then

best\_vol = volume\_total

vol\_ticker = ticker

End If

ticker = Cells(input\_row, 1)

open\_price = Cells(input\_row, 3)

volume\_total = 0

output\_row = output\_row + 1

Wend

' Assign overall results

Range("O2") = increased\_ticker

Range("P2") = best\_increase

Range("O3") = decreased\_ticker

Range("P3") = best\_decrease

Range("O4") = vol\_ticker

Range("P4") = best\_vol

End Sub