Sub QuarterlyStockAnalysis()

Dim ws As Worksheet

Dim lastRow As Long

Dim rowCount As Long

Dim ticker As String

Dim openingPrice As Double

Dim closingPrice As Double

Dim totalVolume As Double

Dim quarterlyChange As Double

Dim percentChange As Double

Dim lastOutput As Long

Dim startRow As Long

Dim endRow As Long

Dim j As Long

Dim i As Long

For Each ws In Worksheets

' Find the last row of data

rowCount = ws.Cells(ws.Rows.Count, 1).End(xlUp).Row

' Add headers

ws.Cells(1, 9).Value = "Ticker"

ws.Cells(1, 10).Value = "Quarterly Change"

ws.Cells(1, 11).Value = "Percent Change"

ws.Cells(1, 12).Value = "Total Volume"

j = 2 ' Initialize the output row counter

' Loop through each row of data

For i = 2 To rowCount

' Check if the next row has a different ticker symbol

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

ticker = ws.Cells(i, 1).Value

endRow = i

' Find the start row for the current ticker

For startRow = endRow To 2 Step -1

If ws.Cells(startRow - 1, 1).Value <> ticker Then

Exit For

End If

Next startRow

' Calculate the opening price

openingPrice = ws.Cells(startRow, 3).Value

' Calculate the closing price

closingPrice = ws.Cells(endRow, 6).Value

' Calculate the quarterly change

quarterlyChange = closingPrice - openingPrice

' Calculate the percent change

percentChange = (quarterlyChange / openingPrice) \* 100

' Calculate the total volume

totalVolume = 0

For startRow = startRow To endRow

totalVolume = totalVolume + ws.Cells(startRow, 7).Value

Next startRow

' Output the results

ws.Cells(j, 9).Value = ticker

ws.Cells(j, 10).Value = quarterlyChange

ws.Cells(j, 11).Value = percentChange

ws.Cells(j, 12).Value = totalVolume

j = j + 1 ' Move to the next output row

End If

Next i

Next ws

' Call the new sub to findgreatest changes

Call FindGreatestChanges

End Sub

Sub FindGreatestChanges()

Dim ws As Worksheet

Dim maxIncrease As Double

Dim maxDecrease As Double

Dim maxVolume As Double

Dim maxIncreaseTicker As String

Dim maxDecreaseTicker As String

Dim maxVolumeTicker As String

Dim lastRow As Long

Dim i As Long

maxIncrease = -99999

maxDecrease = 99999

maxVolume = 0

' Asumming output is on first worksheet

Set ws = ThisWorkbook.Sheets(1)

' Find the last row of the output data

lastRow = ws.Cells(ws.Rows.Count, 9).End(xlUp).Row

' Loop through the output data to find the greatest changes

For i = 2 To lastRow

If ws.Cells(i, 11).Value > maxIncrease Then

maxIncrease = ws.Cells(i, 11).Value

maxIncreaseTicker = ws.Cells(i, 9).Value

End If

If ws.Cells(i, 11).Value < maxDecrease Then

maxDecrease = ws.Cells(i, 11).Value

maxDecreaseTicker = ws.Cells(i, 9).Value

End If

If ws.Cells(i, 12).Value > maxVolume Then

maxVolume = ws.Cells(i, 12).Value

maxVolumeTicker = ws.Cells(i, 9).Value

End If

Next i

' Output the greatest changes

ws.Cells(2, 14).Value = "Greatest % Increase"

ws.Cells(2, 15).Value = maxIncreaseTicker

ws.Cells(2, 16).Value = maxIncrease / 100

ws.Cells(2, 16).NumberFormat = "0.00%"

ws.Cells(3, 14).Value = "Greatest % Decrease"

ws.Cells(3, 15).Value = maxDecreaseTicker

ws.Cells(3, 16).Value = maxDecrease / 100

ws.Cells(3, 16).NumberFormat = "0.00%"

ws.Cells(4, 14).Value = "Greatest Total Volume"

ws.Cells(4, 15).Value = maxVolumeTicker

ws.Cells(4, 16).Value = maxVolume

End Sub