Sub AnalyzeStockData()

Dim ws As Worksheet

Dim lastRow As Long

Dim i As Long

Dim ticker As String

Dim openPrice As Double

Dim closePrice As Double

Dim volume As Double

Dim quarterlyChange As Double

Dim percentChange As Double

' Variables to track greatest values

Dim greatestIncrease As Double

Dim greatestDecrease As Double

Dim greatestVolume As Double

Dim bestTickerIncrease As String

Dim bestTickerDecrease As String

Dim bestTickerVolume As String

' Set title row

Range("J1").Value = "Ticker"

Range("K1").Value = "Quarterly Change"

Range("L1").Value = "Percent Change"

Range("M1").Value = "Total Stock Volume"

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

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

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

' Loop through each worksheet (each quarter)

For Each ws In ThisWorkbook.Worksheets

lastRow = ws.Cells(ws.Rows.Count, "A").End(xlUp).Row ' Find the last row in column A

openPrice = ws.Cells(2, 3).Value ' Open price in column C

Totalvolume = 0

SummaryTable = 2

' Loop through each row of stock data

For i = 2 To lastRow ' Assuming the first row is headers

ticker = ws.Cells(i, 1).Value ' Ticker symbol in column A

Nextticker = ws.Cells(i + 1, 1).Value ' Ticker symbol in column A

volume = ws.Cells(i, 7).Value ' Volume in column G

Totalvolume = Totalvolume + volume

If ticker <> Nextticker Then

'openPrice = ws.Cells(i, 3).Value ' Open price in column C'

closePrice = ws.Cells(i, 6).Value ' Close price in column F

' Calculate quarterly change and percentage change

quarterlyChange = closePrice - openPrice

If openPrice <> 0 Then

percentChange = (quarterlyChange / openPrice) \* 100

Else

percentChange = 0

End If

ws.Cells(SummaryTable, "J").Value = ticker ' Output ticker symbol in column P

ws.Cells(SummaryTable, "K").Value = quarterlyChange ' Output quarterly change in column Q

ws.Cells(SummaryTable, "L").Value = percentChange ' Output percentage change in column R

ws.Cells(SummaryTable, "M").Value = Totalvolume ' Output Totalvolume in column S

openPrice = ws.Cells(i + 1, 3).Value ' Open price in column C

Totalvolume = 0

SummaryTable = SummaryTable + 1

End If

Next i

lastRow2 = ws.Cells(ws.Rows.Count, "J").End(xlUp).Row ' Find the last row in column J

greatestVolume = -100000000000#

greatestVolumeTicker = ""

For j = 2 To lastRow2 ' Assuming the first row is headers

ticker = ws.Cells(j, "J").Value ' Ticker symbol in column A

volume = ws.Cells(j, "M").Value ' Volume in column G

If volume > greatestVolume Then

greatestVolume = volume

greatestVolumeTicker = ticker

End If

Next j

ws.Cells(4, "P").Value = greatestVolumeTicker ' Output greatestVolumeTicker change in column P

ws.Cells(4, "Q").Value = greatestVolume ' Output greatestVolume change in column Q

If volume > greatestVolume Then

greatestVolume = volume

greatestVolumeTicker = ticker

End If

Next ws

' Loop through each worksheet in the workbook

For Each ws In ThisWorkbook.Worksheets

' Find the last row in column K

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

' Clear any existing conditional formats in column K

ws.Columns("K").FormatConditions.Delete

' Add conditional formatting for values greater than 0

With ws.Columns("K").FormatConditions.Add(Type:=xlCellValue, Operator:=xlGreater, Formula1:=0)

.Interior.Color = RGB(0, 255, 0) ' Green

End With

' Add conditional formatting for values less than 0

With ws.Columns("K").FormatConditions.Add(Type:=xlCellValue, Operator:=xlLess, Formula1:=0)

.Interior.Color = RGB(255, 0, 0) ' Red

End With

Next ws

End Sub

Sub FindGreatestPercentChangeAndTicker()

Dim ws As Worksheet

Dim lastRow As Long

Dim i As Long

Dim maxIncrease As Double

Dim maxDecrease As Double

Dim tickerIncrease As String

Dim tickerDecrease As String

' Loop through each worksheet in the workbook

For Each ws In ThisWorkbook.Worksheets

' Initialize variables for each worksheet

maxIncrease = -1

maxDecrease = 1

tickerIncrease = ""

tickerDecrease = ""

' Find the last row in column L

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

' Loop through each row in column L

For i = 2 To lastRow ' Assuming row 1 is headers

If ws.Cells(i, "L").Value <> "" Then

' Check for greatest percent increase

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

maxIncrease = ws.Cells(i, "L").Value

tickerIncrease = ws.Cells(i, "J").Value

End If

' Check for greatest percent decrease

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

maxDecrease = ws.Cells(i, "L").Value

tickerDecrease = ws.Cells(i, "J").Value

End If

End If

Next i

' Output the results in specified cells for the current worksheet

ws.Cells(2, "P").Value = tickerIncrease ' Ticker for greatest increase in P2

ws.Cells(2, "Q").Value = maxIncrease ' Greatest percent increase in Q2

ws.Cells(3, "P").Value = tickerDecrease ' Ticker for greatest decrease in P3

ws.Cells(3, "Q").Value = maxDecrease ' Greatest percent decrease in Q3

Next ws

End Sub