Sub stock\_analysis()

Dim ws As Worksheet

Dim ticker As String

Dim openPrice As Double

Dim closePrice As Double

Dim quarterlyChange As Double

Dim percentChange As Double

Dim totalVolume As Double

Dim lastRow As Long

Dim summaryRow As Integer

Dim greatestIncrease As Double

Dim greatestDecrease As Double

Dim greatestVolume As Double

Dim greatestIncreaseTicker As String

Dim greatestDecreaseTicker As String

Dim greatestVolumeTicker As String

For Each ws In Worksheets

ws.Activate

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

summaryRow = 2

' Set headers for summary table

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"

greatestIncrease = 0

greatestDecrease = 0

greatestVolume = 0

For i = 2 To lastRow

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

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

openPrice = ws.Cells(i, 3).Value

closePrice = ws.Cells(i, 6).Value

quarterlyChange = closePrice - openPrice

If openPrice <> 0 Then

percentChange = (quarterlyChange / openPrice) \* 100

Else

percentChange = 0

End If

totalVolume = Application.WorksheetFunction.Sum(ws.Range("G2:G" & i))

' Output to summary table

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

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

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

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

' Apply color formatting

If quarterlyChange > 0 Then

ws.Cells(summaryRow, 10).Interior.Color = RGB(0, 255, 0) ' Green for positive

ElseIf quarterlyChange < 0 Then

ws.Cells(summaryRow, 10).Interior.Color = RGB(255, 0, 0) ' Red for negative

Else

ws.Cells(summaryRow, 10).Interior.Color = RGB(255, 255, 255) ' White for zero

End If

' Check for greatest increase, decrease, and volume

If percentChange > greatestIncrease Then

greatestIncrease = percentChange

greatestIncreaseTicker = ticker

End If

If percentChange < greatestDecrease Then

greatestDecrease = percentChange

greatestDecreaseTicker = ticker

End If

If totalVolume > greatestVolume Then

greatestVolume = totalVolume

greatestVolumeTicker = ticker

End If

summaryRow = summaryRow + 1

End If

Next i

' Output greatest values

ws.Cells(2, 15).Value = "Greatest % Increase"

ws.Cells(2, 16).Value = greatestIncreaseTicker

ws.Cells(2, 17).Value = greatestIncrease

ws.Cells(3, 15).Value = "Greatest % Decrease"

ws.Cells(3, 16).Value = greatestDecreaseTicker

ws.Cells(3, 17).Value = greatestDecrease

ws.Cells(4, 15).Value = "Greatest Total Volume"

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

ws.Cells(4, 17).Value = greatestVolume

Next ws

End Sub