Sub AnalyzeStockData()

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 outputRow As Long

Dim greatestIncrease As Double

Dim greatestDecrease As Double

Dim greatestVolume As Double

Dim greatestIncreaseTicker As String

Dim greatestDecreaseTicker As String

Dim greatestVolumeTicker As String

' Loop through all worksheets

For Each ws In ThisWorkbook.Worksheets

ws.Activate

' Initialize variables

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

outputRow = 2 ' Start output below headers

greatestIncrease = 0

greatestDecrease = 0

greatestVolume = 0

' Add headers to the output table

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

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

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

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

' Initialize the first ticker data

openPrice = ws.Cells(2, 3).Value

totalVolume = 0

' Loop through rows

For i = 2 To lastRow

' Add to total volume

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

' Check if ticker changes or end of data

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

' Capture the ticker and close price

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

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

' Calculate quarterly change and percent change

quarterlyChange = closePrice - openPrice

If openPrice <> 0 Then

percentChange = (quarterlyChange / openPrice) \* 100

Else

percentChange = 0

End If

' Write data to output table

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

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

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

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

' Apply conditional formatting

If quarterlyChange > 0 Then

ws.Cells(outputRow, 10).Interior.Color = RGB(144, 238, 144) ' Light green

Else

ws.Cells(outputRow, 10).Interior.Color = RGB(255, 99, 71) ' Light red

End If

' Update greatest values

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

' Reset for next ticker

openPrice = ws.Cells(i + 1, 3).Value

totalVolume = 0

outputRow = outputRow + 1

End If

Next i

' Add summary data

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

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

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

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

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

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

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

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

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

Next ws

MsgBox "Stock data analysis complete!", vbInformation

End Sub

Screenshots:

A screenshot of a computer

Description automatically generated

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