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Sub StockAnalysis()
    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 totalVolume As Double
    Dim quarterlyChange As Double
    Dim percentChange As Double
    Dim summaryRow As Integer

    ' Loop through each worksheet
    For Each ws In ThisWorkbook.Worksheets
        ws.Activate
        lastRow = ws.Cells(Rows.Count, 1).End(xlUp).Row
        summaryRow = 2
        totalVolume = 0
        openPrice = ws.Cells(2, 3).Value

        ' Loop through each row of stock data
        For i = 2 To lastRow
            ' Check if we are still on the same ticker
            If ws.Cells(i + 1, 1).Value <> ws.Cells(i, 1).Value Then
                ticker = ws.Cells(i, 1).Value
                closePrice = ws.Cells(i, 6).Value
                totalVolume = totalVolume + ws.Cells(i, 7).Value

                ' Calculate quarterly change and percentage change
                quarterlyChange = closePrice - openPrice
                If openPrice <> 0 Then
                    percentChange = (quarterlyChange / openPrice) * 100
                Else
                    percentChange = 0
                End If

                ' Output values
                ws.Cells(summaryRow, 9).Value = ticker
                ws.Cells(summaryRow, 10).Value = totalVolume
                ws.Cells(summaryRow, 11).Value = quarterlyChange
                ws.Cells(summaryRow, 12).Value = percentChange

                ' Apply conditional formatting for quarterly change
                If quarterlyChange > 0 Then

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        ws.Cells(summaryRow, 11).Interior.Color = RGB(0, 255, 0) ' Green
    Else
        ws.Cells(summaryRow, 11).Interior.Color = RGB(255, 0, 0) ' Red
    End If

    ' Reset for the next ticker
    summaryRow = summaryRow + 1
    totalVolume = 0
    openPrice = ws.Cells(i + 1, 3).Value
Else
    totalVolume = totalVolume + ws.Cells(i, 7).Value
End If
Next i

' Additional code for finding greatest increase, decrease, and total volume
Dim maxIncrease As Double
Dim maxDecrease As Double
Dim maxVolume As Double
Dim maxTickerIncrease As String
Dim maxTickerDecrease As String
Dim maxTickerVolume As String

maxIncrease = 0
maxDecrease = 0
maxVolume = 0

For i = 2 To summaryRow - 1
    ' Check for greatest % increase
    If ws.Cells(i, 12).Value > maxIncrease Then
        maxIncrease = ws.Cells(i, 12).Value
        maxTickerIncrease = ws.Cells(i, 9).Value
    End If
    ' Check for greatest % decrease
    If ws.Cells(i, 12).Value < maxDecrease Then
        maxDecrease = ws.Cells(i, 12).Value
        maxTickerDecrease = ws.Cells(i, 9).Value
    End If
    ' Check for greatest total volume
    If ws.Cells(i, 10).Value > maxVolume Then
        maxVolume = ws.Cells(i, 10).Value
        maxTickerVolume = ws.Cells(i, 9).Value
    End If
Next i

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' Output the greatest values
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 = maxTickerIncrease
ws.Cells(2, 16).Value = maxIncrease
ws.Cells(3, 15).Value = maxTickerDecrease
ws.Cells(3, 16).Value = maxDecrease
ws.Cells(4, 15).Value = maxTickerVolume
ws.Cells(4, 16).Value = maxVolume
Next ws
End Sub
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