Sub AnalyzeStockData()

Dim ws As Worksheet

Dim Ticker As String

Dim QuarterlyChange As Double

Dim PercentChange As Double

Dim TotalVolume As Double

Dim OpenPrice As Double

Dim ClosePrice As Double

Dim SummaryRow As Long

Dim i 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

For Each ws In ThisWorkbook.Worksheets

SummaryRow = 2

TotalVolume = 0

OpenPrice = ws.Cells(2, 3).Value ' Column C: Open Price

GreatestIncrease = 0

GreatestDecrease = 0

GreatestVolume = 0

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"

For i = 2 To ws.Cells(ws.Rows.Count, 1).End(xlUp).Row

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 ' Column F: Close Price

QuarterlyChange = ClosePrice - OpenPrice

If OpenPrice <> 0 Then

PercentChange = QuarterlyChange / OpenPrice

Else

PercentChange = 0

End If

TotalVolume = TotalVolume + ws.Cells(i, 7).Value ' Column G: Volume

ws.Cells(SummaryRow, 9).Value = Ticker

ws.Cells(SummaryRow, 10).Value = QuarterlyChange

' ? Apply color based on positive or negative change

With ws.Cells(SummaryRow, 10)

If .Value > 0 Then

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

ElseIf .Value < 0 Then

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

Else

.Interior.ColorIndex = 0 ' No fill

End If

End With

ws.Cells(SummaryRow, 11).Value = Format(PercentChange, "0.00%")

ws.Cells(SummaryRow, 12).Value = TotalVolume

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

TotalVolume = 0

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

Else

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

End If

Next i

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

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

ws.Cells(2, 17).Value = Format(GreatestIncrease, "0.00%")

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

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

ws.Cells(3, 17).Value = Format(GreatestDecrease, "0.00%")

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

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

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

Next ws

MsgBox "Stock analysis complete on all worksheets!"

End Sub