Option Explicit

Sub ChallengeVBA()

Dim ws As Worksheet

Dim CurrentTicker As String

Dim NextTicker As String

Dim TotalVolume As LongLong

Dim Summary\_Table\_Row As Long

Dim InputRow As Long

Dim LastRow As Long

Dim OpeningPrice As Double

Dim ClosingPrice As Double

Dim QuarterlyChange As Double

Dim ChangeFrac As Double

Dim QuartChange As Long

Dim PercentChangeMax As Double

Dim GreatestVolume As LongLong

Dim PercentChangeMin As Double

Dim TickerIncrease As String

Dim TickerDecrease As String

Dim TickerVolume As String

For Each ws In ThisWorkbook.Worksheets

' Determine the Last Row

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

' Add the Column Headers

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 Stock Volume"

ws.Cells(1, 16).Value = "Ticker"

ws.Cells(1, 17).Value = "Value"

' Add the Rows for Ticker and Value

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

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

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

' Set an initial variabls

TotalVolume = 0

Summary\_Table\_Row = 2

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

PercentChangeMax = ws.Cells(2, 11).Value

PercentChangeMin = ws.Cells(2, 11).Value

GreatestVolume = ws.Cells(2, 12).Value

TickerIncrease = ws.Cells(2, 9).Value

TickerDecrease = ws.Cells(2, 9).Value

TickerVolume = ws.Cells(2, 9).Value

' Loop through all tickers and volume

For InputRow = 2 To LastRow

CurrentTicker = ws.Cells(InputRow, 1).Value

NextTicker = ws.Cells(InputRow + 1, 1).Value

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

' Check for last row of current stock

If NextTicker <> CurrentTicker Then

' Input

ClosingPrice = ws.Cells(InputRow, 6).Value

' Calculations

QuarterlyChange = ClosingPrice - OpeningPrice

ChangeFrac = QuarterlyChange / OpeningPrice

' Output

ws.Range("I" & Summary\_Table\_Row).Value = CurrentTicker

ws.Range("J" & Summary\_Table\_Row).Value = QuarterlyChange

ws.Range("K" & Summary\_Table\_Row).Value = FormatPercent(ChangeFrac)

ws.Range("L" & Summary\_Table\_Row).Value = TotalVolume

' Prepare for next Stock

TotalVolume = 0

Summary\_Table\_Row = Summary\_Table\_Row + 1

OpeningPrice = ws.Cells(InputRow + 1, 3).Value

End If

Next InputRow

For QuartChange = 2 To LastRow

If ws.Cells(QuartChange, 10) > 0 Then

ws.Cells(QuartChange, 10).Interior.ColorIndex = 4

ElseIf ws.Cells(QuartChange, 10) < 0 Then

ws.Cells(QuartChange, 10).Interior.ColorIndex = 3

Else

ws.Cells(QuartChange, 10).Interior.ColorIndex = 2

End If

Next QuartChange

For InputRow = 2 To LastRow

If ws.Cells(InputRow, 11).Value > PercentChangeMax Then

PercentChangeMax = ws.Cells(InputRow, 11).Value

TickerIncrease = ws.Cells(InputRow, 9).Value

End If

Next InputRow

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

ws.Cells(2, 17).Value = FormatPercent(PercentChangeMax)

For InputRow = 2 To LastRow

If ws.Cells(InputRow, 11).Value < PercentChangeMin Then

PercentChangeMin = ws.Cells(InputRow, 11).Value

TickerDecrease = ws.Cells(InputRow, 9).Value

End If

Next InputRow

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

ws.Cells(3, 17).Value = FormatPercent(PercentChangeMin)

For InputRow = 2 To LastRow

If Cells(InputRow, 12).Value > GreatestVolume Then

GreatestVolume = ws.Cells(InputRow, 12).Value

TickerVolume = ws.Cells(InputRow, 9).Value

End If

Next InputRow

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

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

Next ws

MsgBox "Done"

End Sub