Main

Sub stocks()

Dim vol\_total As LongLong

Dim i As Long

Dim cell\_vol As LongLong

Dim ticker As String

Dim k As Long

Dim ticker\_close As Double

Dim ticker\_open As Double

Dim price\_change As Double

Dim percent\_change As Double

Dim lastRow As Long

Dim ws As Worksheet

Dim greatestVolume As LongLong

Dim greatestPercentIncrease As Double

Dim lowestPercentDecrease As Double

Dim greatestIncreaseTicker As String

Dim greatestDecreaseTicker As String

Dim greatestVolumeTicker As String

For Each ws In Worksheets

' Get the row number of the last row

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

' Set initial values

vol\_total = 0

k = 2

greatestPercentIncrease = 0

lowestPercentDecrease = 0

greatestVolume = 0

' Write Leaderboard Columns

ws.Range("I1").Value = "Ticker"

ws.Range("J1").Value = "Quarterly Change"

ws.Range("K1").Value = "Percent Change"

ws.Range("L1").Value = "Volume"

ws.Range("O1").Value = ""

ws.Range("P1").Value = "Ticker"

ws.Range("Q1").Value = "Value"

' Assign open for the first ticker

ticker\_open = ws.Cells(2, 3).Value

For i = 2 To lastRow

cell\_vol = ws.Cells(i, 7).Value

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

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

' We have a different ticker

vol\_total = vol\_total + cell\_vol

' Check closing ticker

ticker\_close = ws.Cells(i, 6).Value

price\_change = ticker\_close - ticker\_open

' Check for division by zero

If ticker\_open > 0 Then

percent\_change = price\_change / ticker\_open

Else

percent\_change = 0

End If

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

ws.Cells(k, 10).Value = price\_change

ws.Cells(k, 11).Value = percent\_change

ws.Cells(k, 12).Value = vol\_total

' Formatting

If price\_change > 0 Then

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

ws.Cells(k, 11).Interior.ColorIndex = 4

ElseIf price\_change < 0 Then

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

ws.Cells(k, 11).Interior.ColorIndex = 3

Else

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

ws.Cells(k, 11).Interior.ColorIndex = 2

End If

' Update leaderboard values

If percent\_change > greatestPercentIncrease Then

greatestPercentIncrease = percent\_change

greatestIncreaseTicker = ticker

End If

If percent\_change < lowestPercentDecrease Then

lowestPercentDecrease = percent\_change

greatestDecreaseTicker = ticker

End If

If vol\_total > greatestVolume Then

greatestVolume = vol\_total

greatestVolumeTicker = ticker

End If

' Reset

vol\_total = 0

k = k + 1

ticker\_open = ws.Cells(i + 1, 3).Value

Else

vol\_total = vol\_total + cell\_vol

End If

Next i

' Styling

ws.Columns("K:K").NumberFormat = "0.00%"

ws.Columns("L:I").AutoFit

ws.Range("Q2").NumberFormat = "0.00%"

ws.Range("Q3").NumberFormat = "0.00%"

ws.Range("Q4").NumberFormat = 0

' Output leaderboard values

ws.Range("P2").Value = greatestIncreaseTicker

ws.Range("Q2").Value = greatestPercentIncrease

ws.Range("P3").Value = greatestDecreaseTicker

ws.Range("Q3").Value = lowestPercentDecrease

ws.Range("P4").Value = greatestVolumeTicker

ws.Range("Q4").Value = greatestVolume

' Add the specified strings to cells O2, O3, and O4

ws.Range("O2").Value = "Greatest % Increase"

ws.Range("O3").Value = "Greatest % Decrease"

ws.Range("O4").Value = "Greatest Total Volume"

Next ws

End Sub

Test

Sub stocks()

Dim vol\_total As LongLong

Dim i As Long

Dim cell\_vol As LongLong

Dim ticker As String

Dim k As Long

Dim ticker\_close As Double

Dim ticker\_open As Double

Dim price\_change As Double

Dim percent\_change As Double

Dim lastRow As Long

Dim ws As Worksheet

Dim greatestVolume As LongLong

Dim greatestPercentIncrease As Double

Dim lowestPercentDecrease As Double

Dim greatestIncreaseTicker As String

Dim greatestDecreaseTicker As String

Dim greatestVolumeTicker As String

For Each ws In Worksheets

' Get the row number of the last row

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

' Set initial values

vol\_total = 0

k = 2

greatestPercentIncrease = 0

lowestPercentDecrease = 0

greatestVolume = 0

' Write Leaderboard Columns

ws.Range("I1").Value = "Ticker"

ws.Range("J1").Value = "Quarterly Change"

ws.Range("K1").Value = "Percent Change"

ws.Range("L1").Value = "Volume"

ws.Range("O2").Value = "Greatest % Increase"

ws.Range("O3").Value = "Lowest % Decrease"

ws.Range("O4").Value = "Greatest Total Volume"

' Assign open for the first ticker

ticker\_open = ws.Cells(2, 3).Value

For i = 2 To lastRow

cell\_vol = ws.Cells(i, 7).Value

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

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

' We have a different ticker

vol\_total = vol\_total + cell\_vol

' Check closing ticker

ticker\_close = ws.Cells(i, 6).Value

price\_change = ticker\_close - ticker\_open

' Check for division by zero

If ticker\_open > 0 Then

percent\_change = price\_change / ticker\_open

Else

percent\_change = 0

End If

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

ws.Cells(k, 10).Value = price\_change

ws.Cells(k, 11).Value = percent\_change

ws.Cells(k, 12).Value = vol\_total

' Formatting

If price\_change > 0 Then

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

ws.Cells(k, 11).Interior.ColorIndex = 4

ElseIf price\_change < 0 Then

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

ws.Cells(k, 11).Interior.ColorIndex = 3

Else

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

ws.Cells(k, 11).Interior.ColorIndex = 2

End If

' Update leaderboard values

If percent\_change > greatestPercentIncrease Then

greatestPercentIncrease = percent\_change

greatestIncreaseTicker = ticker

End If

If percent\_change < lowestPercentDecrease Then

lowestPercentDecrease = percent\_change

greatestDecreaseTicker = ticker

End If

If vol\_total > greatestVolume Then

greatestVolume = vol\_total

greatestVolumeTicker = ticker

End If

' Reset

vol\_total = 0

k = k + 1

ticker\_open = ws.Cells(i + 1, 3).Value

Else

vol\_total = vol\_total + cell\_vol

End If

Next i

' Styling

ws.Columns("K:K").NumberFormat = "0.00%"

ws.Columns("L:I").AutoFit

' Output leaderboard values

ws.Range("O2").Value = greatestPercentIncrease

ws.Range("O3").Value = lowestPercentDecrease

ws.Range("O4").Value = greatestVolume

' Find the row numbers for max and min values

Dim increase\_number As Long

Dim decrease\_number As Long

Dim volume\_number As Long

increase\_number = WorksheetFunction.Match(WorksheetFunction.Max(ws.Range("K2:K" & lastRow)), ws.Range("K2:K" & lastRow), 0)

decrease\_number = WorksheetFunction.Match(WorksheetFunction.Min(ws.Range("K2:K" & lastRow)), ws.Range("K2:K" & lastRow), 0)

volume\_number = WorksheetFunction.Match(WorksheetFunction.Max(ws.Range("L2:L" & lastRow)), ws.Range("L2:L" & lastRow), 0)

ws.Range("P2").Value = ws.Cells(increase\_number + 1, 9).Value

ws.Range("P3").Value = ws.Cells(decrease\_number + 1, 9).Value

ws.Range("P4").Value = ws.Cells(volume\_number + 1, 9).Value

Next ws

End Sub