Stock Market Analysis Script

Sub Stock\_Market\_Data():

'Loop Through Each Worksheets

For Each ws In Worksheets

'Set initial variable for Holding ticker Symbol

Dim TickerSymb As String

'Set initial variable for Holding Total Stock Volume

Dim TotalStockVolume As Double

TotalStockVolume = 0

'Set variable for Yearly Price Change

Dim YearlyOpenPrice As Double

Dim YearlyClosePrice As Double

'Set Ticker Title Column

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

'Set Yearly Change Title Column

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

'Set Percent Change Title Column

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

'Set Stock Volume Title Column

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

'Set Variables to show results in Last Row

Dim LRow As Long

Dim LRowVal As Long

'Set variable for Holding Yearly Change

Dim PreviousPrice As Long

PreviousPrice = 2

Dim YearlyChange As Double

YearlyClosePrice = 0

'Set variable for Holding Percent Change

Dim PercentChange As Double

'Keep track of Stock in Table Summary

Dim StockSummaryTable As Long

StockSummaryTable = 2

'Set Last Row

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

For i = 2 To LRow

'Sum up the Total Stock Volume for the same Ticker Symbol

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

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

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

'Set Titles and Values in the Stock Summary Table

ws.Range("I" & StockSummaryTable).Value = TickerSymb

'Calculate Total Stock Volume in the Summary Table

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

ws.Range("L" & StockSummaryTable).Value = TotalStockVolume

'Calculate Yearly Price Change and Display in the Summary Table

YearlyOpenPrice = ws.Range("C" & PreviousPrice)

YearlyClosePrice = ws.Range("F" & i).Value

YearlyChange = YearlyClosePrice - YearlyOpenPrice

ws.Range("J" & StockSummaryTable).Value = YearlyChange

'Set Percent Change that is Not divisible by zero

If YearlyOpenPrice = 0 Then

PercentChange = 0

Else

YearlyOpenPrice = ws.Range("C" & PreviousPrice)

PercentChange = YearlyChange / YearlyOpenPrice

End If

'Format the Cells to show as percentage

ws.Range("K" & StockSummaryTable).Value = PercentChange

ws.Range("K" & StockSummaryTable).NumberFormat = "0.00%"

'Set Conditional Formatting for Cells Green for Positive and Red for Negative

If ws.Range("J" & StockSummaryTable).Value >= 0 Then

ws.Range("J" & StockSummaryTable).Interior.ColorIndex = 4

Else

ws.Range("J" & StockSummaryTable).Interior.ColorIndex = 3

End If

'Resets the opening conditions for the next ticker.

StockSummaryTable = StockSummaryTable + 1

TotalStockVolume = 0

PreviousPrice = i + 1

YearlyClosePrice = 0

End If

'Set Columns for Bonus

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

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

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

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

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

If ws.Range("K" & i).Value > ws.Range("Q2").Value Then

ws.Range("Q2").Value = ws.Range("K" & i).Value

ws.Range("P2").Value = ws.Range("I" & i).Value

End If

If ws.Range("K" & i).Value < ws.Range("Q3").Value Then

ws.Range("Q3").Value = ws.Range("K" & i).Value

ws.Range("P3").Value = ws.Range("I" & i).Value

End If

If ws.Range("L" & i).Value > ws.Range("Q4").Value Then

ws.Range("Q4").Value = ws.Range("L" & i).Value

ws.Range("P4").Value = ws.Range("I" & i).Value

End If

' Format To Include % and Two Decimal Places

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

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

' Format Number

ws.Range("Q4").NumberFormat = "000,000.00"

Next i

Next ws

End Sub