

VBA Script

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Sub Stock_Analysis ()

' Define the variables that will be used

    Dim Ticker As String
    Dim Volume_Total As Double
        Volume_Total = 0
    Dim Open_Amt As Double
        Open_Amt = Cells(2, 3).Value
    Dim Close_Amt As Double
        Close_Amt = 0
    Dim Yearly_Change As Double
        Yearly_Change = 0
    Dim Percent_Change As Double
        Percent_Change = 0

    Dim Summary_Table_Row As Long
        Summary_Table_Row = 2

    Dim Lastrow As Long
        Lastrow = Cells(Rows.Count, 1).End(xlUp).Row

' Label headers for the summary tables

    Range("K1") = "Ticker"
    Range("L1") = "Yearly Change"
    Range("M1") = "Percent Change"
    Range("N1") = "Total Stock Volume"

' Create loop to go through all the Tickers to find the required info

    For i = 2 To Lastrow

' Create if-then statement to check and see if we are still in the same Ticker
and set parameters based on that

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

' If the Tickers are not equal, then the following values will be true

            Ticker = Cells(i, 1).Value
            Close_Amt = Cells(i, 6).Value
            Yearly_Change = Close_Amt - Open_Amt
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' Print variables into the appropriate cells

        Range("K" & Summary_Table_Row).Value = Ticker
        Range("L" & Summary_Table_Row).Value = Yearly_Change

' If Yearly Change is greater than zero, set the color to green

        If Yearly_Change > "0" Then

                Range("L" & Summary_Table_Row).Interior.ColorIndex = 4

' If Yearly Change is less than or equal to zero, set the color to red

        ElseIf Yearly_Change <= "0" Then

                Range("L" & Summary_Table_Row).Interior.ColorIndex = 3

        End If

' Create another if-then statement to get the Percent Change and make sure to
account for the zero division possible error

        If Open_Amt <> 0 Then
                Percent_Change = (Yearly_Change / Open_Amt) * 100

' Print variables into cells and format the Percent Change to show numbers as a
percent

                Range("M" & Summary_Table_Row).Value = Percent_Change
                Range("M" & Summary_Table_Row).NumberFormat = "0.00\%"

' If the open amount is equal to zero, then Percent Change will be zero because
you cannot divide by zero

        Else
                Percent_Change = 0

        End If

' Obtain Volume Total by Ticker name since we need to account for the last volume
amount before Ticker changes to next Ticker

        Volume_Total = Volume_Total + Cells(i, 7).Value

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' Print the Volume Total into the appropriate cells

        Range("N" & Summary_Table_Row).Value = Volume_Total

' Add 1 to the Summary Table Row so that the correct variable is in the correct
cell for the next iteration

        Summary_Table_Row = Summary_Table_Row + 1

' Re-set to zero for next iteration

        Yearly_Change = 0
        Percent_Change = 0
        Close_Amt = 0
        Volume_Total = 0

' Get Open Amount for next Ticker

        Open_Amt = Cells(i + 1, 3).Value

' If the Ticker value is equal, then the Volume Total would be 0 plus the Volume
Total numbers associated with the first Ticker

        Else

                Volume_Total = Volume_Total + Cells(i, 7).Value

' Need to end this statement

        End If

' Need to end the loop

        Next i

' Format cells to autofit in the worksheet so that data is readable and looks
clean

        Cells.EntireColumn.AutoFit

' Must end the function

End Sub

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