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Sub stock_analysis()
' Set dimensions
Dim total As Double
Dim i As Long
Dim change As Double
Dim j As Integer
Dim start As Long
Dim rowCount As Long
Dim percentChange As Double
Dim days As Integer
Dim dailyChange As Double
Dim averageChange As Double
Dim ws As Worksheet
Dim increase_number As Long
Dim decrease_number As Long
Dim volume_number As Long
Dim maxIncreaseTicker As String
Dim maxDecreaseTicker As String
Dim maxVolumeTicker As String
Dim maxIncrease As Double
Dim maxDecrease As Double
Dim maxVolume As Double

' Loop through each worksheet (tab) in the Excel file
For Each ws In Worksheets
' Initialize values for each worksheet
j = 0
total = 0
change = 0
start = 2
dailyChange = 0
maxIncrease = 0
maxDecrease = 0
maxVolume = 0

' Set title row
ws.Range("I1").Value = "Ticker"
ws.Range("J1").Value = "Yearly Change"
ws.Range("K1").Value = "Percent Change"
ws.Range("L1").Value = "Total Stock Volume"
ws.Range("P1").Value = "Ticker"
ws.Range("Q1").Value = "Value"

' get the row number of the last row with data
rowCount = ws.Cells(ws.Rows.Count, "A").End(xlUp).Row

For i = 2 To rowCount
' If ticker changes then print results
If ws.Cells(i + 1, 1).Value <> ws.Cells(i, 1).Value Then
' Stores results in variables
total = total + ws.Cells(i, 7).Value

' Handle zero total volume
If total = 0 Then
averageChange = 0
increase_number = 0
decrease_number = 0
Else
' Find First non zero starting value
start = i - j

' Calculate Change
change = ws.Cells(i, 6) - ws.Cells(start, 3)
percentChange = (change / ws.Cells(start, 3)) * 100

' start of the next stock ticker
start = i + 1

' print the results
ws.Range("I" & 2 + j).Value = ws.Cells(i, 1).Value
ws.Range("J" & 2 + j).Value = change
ws.Range("J" & 2 + j).NumberFormat = "0.00"
ws.Range("K" & 2 + j).Value = percentChange

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ws.Range("K" & 2 + j).NumberFormat = "0.00%"
ws.Range("L" & 2 + j).Value = total

' colors positives green and negatives red
If change > 0 Then
    ws.Range("J" & 2 + j).Interior.Color = RGB(0, 255, 0) ' Green background for p
positive numbers

    If change > maxIncrease Then
        maxIncrease = change
        maxIncreaseTicker = ws.Cells(i, 1).Value
    End If
    increase_number = increase_number + 1
ElseIf change < 0 Then
    ws.Range("J" & 2 + j).Interior.Color = RGB(255, 0, 0) ' Red background for neg
negative numbers

    If change < maxDecrease Then
        maxDecrease = change
        maxDecreaseTicker = ws.Cells(i, 1).Value
    End If
    decrease_number = decrease_number + 1
Else
    ws.Range("J" & 2 + j).Interior.ColorIndex = xlNone ' Remove background color f
or zero values

End If
End If

' reset variables for new stock ticker
total = 0
change = 0
j = j + 1
days = 0
dailyChange = 0
' If ticker is still the same add results
Else
    total = total + ws.Cells(i, 7).Value
End If
Next i

' take the max and min and place them in a separate part in the worksheet
ws.Range("P2").Value = maxIncreaseTicker
ws.Range("P3").Value = maxDecreaseTicker
ws.Range("P4").Value = maxVolumeTicker

' returns one less because header row not a factor
volume_number = rowCount - 1

' final ticker symbol for total, greatest % of increase and decrease, and average
ws.Range("O2").Value = "Total Stock Volume"
ws.Range("O3").Value = "Greatest % Increase"
ws.Range("O4").Value = "Greatest % Decrease"

' populate the corresponding values
ws.Range("Q2").Value = WorksheetFunction.Sum(ws.Range("L2:L" & rowCount))
ws.Range("Q3").Value = maxIncrease
ws.Range("Q4").Value = maxDecrease

Next ws
End Sub

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