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Sub stock_challenge():

'populate on all worksheets
For Each ws In Worksheets

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

'column and row headers
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"
ws.Range("O2").Value = "Greatest % Increase"
ws.Range("O3").Value = "Greatest % Decrease"
ws.Range("O4").Value = "Greatest Total Volume"

'Declare variables for ticker, yearly change, percent change, total stock volume
Dim Ticker As String
Dim percentchnng As Double
Dim i As Long
Dim j As Long
Dim Total As Double
Dim Start As Double
Dim Change As Double
Dim endprice As Double
Dim startprice As Double

j = 0
Total = 0
Start = 2
Change = 0
startprice = ws.Range("C2").Value

'loop for populating ticker symbol column summarize from col A

For i = 2 To lastrow
    If ws.Cells(i + 1, 1).Value <> ws.Cells(i, 1).Value Then
        Total = Total + ws.Cells(i, 7).Value

        Ticker = ws.Cells(i, 1).Value
        Change = ws.Cells(i, 6).Value - startprice
    End If
End For
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If startprice = 0 Then
    percentchnge = 0
Else
    percentchnge = (Change / startprice)
End If
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startprice = ws.Range("C" & i + 1)
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```
If Total = 0 Then
    Change = 0
    percentchnge = "%" & 0
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Else
    If ws.Cells(Start, 3) = 0 Then
        For find_value = Start To i
            If ws.Cells(find_value, 3).Value <> 0 Then
                Start = find_value
                Exit For
            End If
        Next find_value
    End If
```

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' next ticker
Start = i + 1
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```
ws.Range("I" & 2 + j).Value = Ticker
ws.Range("J" & 2 + j).Value = Change
ws.Range("J" & 2 + j).NumberFormat = "0.00"
ws.Range("K" & 2 + j).Value = percentchnge
ws.Range("K" & 2 + j).NumberFormat = "0.00%"
ws.Range("L" & 2 + j).Value = Total
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'conditional color red for neg and green for pos
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If Change > 0 Then
    ws.Range("J" & 2 + j).Interior.ColorIndex = 4
ElseIf Change < 0 Then
    ws.Range("J" & 2 + j).Interior.ColorIndex = 3
End If
```

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End If
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```
' reset variables for new stock ticker
Total = 0
Change = 0
j = j + 1
```

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        'if ticker is the same
    Else
        Total = Total + ws.Cells(i, 7)

    End If

Next i

' take the max and min and place them in a separate part in the worksheet

Dim increase_number As Long
Dim decrease_number As Long
Dim volume_number As Long
Dim maxticker As String
Dim minticker As String
Dim maxvol As String

' Calculate
ws.Range("Q2") = "%" & WorksheetFunction.Max(ws.Range("K2:K" & lastrow)) * 100
ws.Range("Q3") = "%" & WorksheetFunction.Min(ws.Range("K2:K" & lastrow)) * 100
ws.Range("Q4") = WorksheetFunction.Max(ws.Range("L2:L" & lastrow))

'Find row numbers
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)

maxticker = Cells(increase_number + 1, 9).Value
minticker = Cells(decrease_number + 1, 9).Value
maxvol = Cells(volume_number + 1, 9).Value

ws.Range("P2").Value = maxticker
ws.Range("P3").Value = minticker
ws.Range("P4").Value = maxvol

Next ws

End Sub

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