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' Function to determine the quarter from a date
Function GetQuarter(DateValue As Date) As Integer
    Dim MonthNum As Integer
    MonthNum = Month(DateValue)
    Select Case MonthNum
        Case 1 To 3
            GetQuarter = 1
        Case 4 To 6
            GetQuarter = 2
        Case 7 To 9
            GetQuarter = 3
        Case 10 To 12
            GetQuarter = 4
    End Select
End Function

Sub MultipleQuarterStockData()
    Dim ws As Worksheet ' Ensure ws is defined as a Worksheet object

    ' Loop through each worksheet
    For Each ws In Worksheets

        Dim WorksheetName As String
        Dim i As Long ' Current row
        Dim j As Long ' Start row of ticker block
        Dim TickCount As Long ' Index counter for filling Ticker row
        Dim LastRowA As Long ' Last row in column A
        Dim PerChange As Double ' Variable for percent change calculation
        Dim GreatIncr As Double ' Variable for greatest increase
        Dim GreatDecr As Double ' Variable for greatest decrease
        Dim GreatVol As Double ' Variable for greatest total volume

        ' Get the WorksheetName
        WorksheetName = ws.Name

        ' Create column headers
        ws.Cells(1, 9).Value = "Ticker"
        ws.Cells(1, 10).Value = "Quarterly Change"
        ws.Cells(1, 11).Value = "Percent Change"
        ws.Cells(1, 12).Value = "Total Stock Volume"
        ws.Cells(1, 16).Value = "Ticker"
        ws.Cells(1, 17).Value = "Value"
        ws.Cells(2, 15).Value = "Greatest % Increase"
        ws.Cells(3, 15).Value = "Greatest % Decrease"
        ws.Cells(4, 15).Value = "Greatest Total Volume"

        ' Initialize counters and start row
        TickCount = 2
        j = 2

        ' Find the last non-blank cell in column A
        LastRowA = ws.Cells(Rows.Count, 1).End(xlUp).row

        ' Loop through all rows
        For i = 2 To LastRowA

            ' Check if the quarter changes or if the ticker changes

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If GetQuarter(ws.Cells(i + 1, 2).Value) <> GetQuarter(ws.Cells(i, 2).Value) _
Or ws.Cells(i + 1, 1).Value <> ws.Cells(i, 1).Value Then

' Write ticker in column I (#9)
ws.Cells(TickCount, 9).Value = ws.Cells(i, 1).Value

' Calculate and write Quarterly Change in column J (#10)
ws.Cells(TickCount, 10).Value = ws.Cells(i, 6).Value - ws.Cells(j, 3).Value

' Conditional formatting for Quarterly Change
If ws.Cells(TickCount, 10).Value < 0 Then
    ws.Cells(TickCount, 10).Interior.ColorIndex = 3 ' Red
Else
    ws.Cells(TickCount, 10).Interior.ColorIndex = 4 ' Green
End If

' Calculate and write percent change in column K (#11)
If ws.Cells(j, 3).Value <> 0 Then
    PerChange = ((ws.Cells(i, 6).Value - ws.Cells(j, 3).Value) / ws.Cells(j, 3).Value)
    ws.Cells(TickCount, 11).Value = Format(PerChange, "Percent")
Else
    ws.Cells(TickCount, 11).Value = Format(0, "Percent")
End If

' Conditional formatting for Percent Change
If PerChange < 0 Then
    ws.Cells(TickCount, 11).Interior.ColorIndex = 3 ' Red
Else
    ws.Cells(TickCount, 11).Interior.ColorIndex = 4 ' Green
End If

' Calculate and write total stock volume in column L (#12)
ws.Cells(TickCount, 12).Value = WorksheetFunction.Sum(Range(ws.Cells(j, 7),
ws.Cells(i, 7)))

' Increment TickCount
TickCount = TickCount + 1

' Set new start row for next quarter
j = i + 1

End If

Next i

' Find the last non-blank cell in column I
Dim LastRowI As Long
LastRowI = ws.Cells(Rows.Count, 9).End(xlUp).row

' Prepare for summary
GreatVol = ws.Cells(2, 12).Value
GreatIncr = ws.Cells(2, 11).Value
GreatDecr = ws.Cells(2, 11).Value

' Loop for summary
For i = 2 To LastRowI

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' Find the greatest total volume
If ws.Cells(i, 12).Value > GreatVol Then
    GreatVol = ws.Cells(i, 12).Value
    ws.Cells(4, 16).Value = ws.Cells(i, 9).Value
End If
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' Find the greatest percent increase
If ws.Cells(i, 11).Value > GreatIncr Then
    GreatIncr = ws.Cells(i, 11).Value
    ws.Cells(2, 16).Value = ws.Cells(i, 9).Value
End If
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' Find the greatest percent decrease
If ws.Cells(i, 11).Value < GreatDecr Then
    GreatDecr = ws.Cells(i, 11).Value
    ws.Cells(3, 16).Value = ws.Cells(i, 9).Value
End If
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Next i
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' Write summary results
ws.Cells(2, 17).Value = Format(GreatIncr, "Percent")
ws.Cells(3, 17).Value = Format(GreatDecr, "Percent")
ws.Cells(4, 17).Value = Format(GreatVol, "Scientific")
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' Adjust column width automatically
Worksheets(WorksheetName).Columns("A:Z").AutoFit
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Next ws
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End Sub
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