VBA-challenge Script

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' codes created in Moduel 1 'this sub is for allowing the VBA scripts automatically run on every worksheet 2016,2015,2014
'Macro is assigned to "Click to Summarize Stock" Button
Sub AutomateAdd()
 Dim i As Integer
  i = 1
  Do While i <= Worksheets.Count
     Worksheets(i).Select

'add two previous created subs
    AddHeaderandGreatest
    SummarizeStock

  i = i + 1

  Columns("I:L").EntireColumn.AutoFit
  Columns("O:Q").EntireColumn.AutoFit

 Loop
End Sub
'================================================================
'Create the second sub SumarizeStock
Sub SummarizeStock()

'set variables for all columns in summary_table_row(I:L)
  Dim Ticker As String

  Dim TotalStockVolume As Double
      TotalStockVolume = 0

  Dim YearlyChange As Double
      YearlyChange = 0

  Dim PercentChange As Double
      PercentChange = 0

'values start at row 2
  Dim Summary_Table_Row As Integer
     Summary_Table_Row = 2

'find the lastrow in Column A
  Dim lastrow As Long
  lastrow = Range("A" & Rows.Count).End(xlUp).Row

  For i = 2 To lastrow
  'grab opening price at the beginning of a given year (column C)
   openyearly = Cells(Summary_Table_Row, 3).Value

  'set condition:if next row's value is not equal to previous row's value in column A
    If Cells(i + 1, 1) <> Cells(i, 1).Value Then
       Ticker = Cells(i, 1).Value
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      'just like answer=answer+startnumber, add together whatever is stored n the
variable
       TotalStockVolume = TotalStockVolume + Cells(i, 7).Value

      'each cell of row do substraction first then add up together
       YearlyChange = YearlyChange + (Cells(i, 6).Value - openyearly)
       PercentChange = (YearlyChange / openyearly)

       Range("I" & Summary_Table_Row).Value = Ticker
       Range("L" & Summary_Table_Row).Value = TotalStockVolume
       Range("J" & Summary_Table_Row).Value = YearlyChange
       Range("K" & Summary_Table_Row).Value = PercentChange

      'set the format of column K as percentage
       Range("K" & Summary_Table_Row).Value = "Percent"

    Summary_Table_Row = Summary_Table_Row + 1

    'reset values
    TotalStockVolume = 0
    YearlyChange = 0
    PercentChange = 0

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

  End If

Next i
'-------------------------------------------------------------------------------------------------------
' next set conditional formatting color for column J
 Dim lastrowyearly As Double
 lastrowyearly = Range("J" & Rows.Count).End(xlUp).Row

 For i = 2 To lastrowyearly
  'any values in column J
   If Cells(i, 10).Value >= 0 Then
      'highlight positive change in green and negative change in red
      Cells(i, 10).Interior.Color = RGB(0, 255, 0)

   Else
      Cells(i, 10).Interior.Color = RGB(255, 0, 0)

   End If

 Next i
'-------------------------------------------------------------------------------------------------------
'then fill values into column P and Q
'set lastrow to find the max/min value from percent change column
 Dim lastrowpercent As Long
 lastrowpercent = Range("K" & Rows.Count).End(xlUp).Row

' set max value starts at 0
Dim Greatest_Percent_Increase As Double
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    Greatest_Percent_Increase = 0

Dim Greatest_Percent_Decrease As Double
    Greatest_Percent_Decrease = 0

For i = 2 To lastrowpercent
    'compare 0 and max value, grab max value
    If Greatest_Percent_Increase < WorksheetFunction.Max(Cells(i, 11)) Then
       Greatest_Percent_Increase = WorksheetFunction.Max(Cells(i, 11))
       Cells(2, 17).Value = Greatest_Percent_Increase
       Cells(2, 16).Value = Cells(i, 9).Value

   ElseIf Greatest_Percent_Decrease > WorksheetFunction.Max(Cells(i, 11)) Then
       Greatest_Percent_Decrease = WorksheetFunction.Max(Cells(i, 11))
       Cells(3, 17).Value = Greatest_Percent_Decrease
       Cells(3, 16).Value = Cells(i, 9).Value

  'set the format of Q2 and Q3 as percentage
   Range("Q2:Q3").Style = "Percent"

   End If

Next i
'-------------------------------------------------------------------------------------------------------
'after that set lastrow to find the max volume from total volume column
 Dim lastrowvolume As Long
 lastrowvolume = Range("L" & Rows.Count).End(xlUp).Row

 Dim Greatest_Total_Volume As Double
     Greatest_Total_Volume = 0

 For i = 2 To lastrowvolume
   'compare 0 and max value, grab max value
   If Greatest_Total_Volume < WorksheetFunction.Max(Cells(i, 12)) Then
      Greatest_Total_Volume = WorksheetFunction.Max(Cells(i, 12))
      Cells(4, 17).Value = Greatest_Total_Volume
      Cells(4, 16).Value = Cells(i, 9).Value

   End If

 Next i

End Sub
'=====================================================================
'Create the first sub AddHeaderandGreatest
Sub AddHeaderandGreatest()

'use Macro Recording function to add Headers for column I:L and O:Q
 Range("02").Select
 ActiveCell.FormulaR1C1 = "Greatest % Increase"
 Range("03").Select
 ActiveCell.FormulaR1C1 = "Greatest % Decrease"
 Range("04").Select
 ActiveCell.FormulaR1C1 = "Greatest Total Volume"
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 Range("P1").Select
 ActiveCell.FormulaR1C1 = "Ticker"
 Range("Q1").Select
 ActiveCell.FormulaR1C1 = "Value"

 Range("I1").Select
 ActiveCell.FormulaR1C1 = "Ticker"
 Range("J1").Select
 ActiveCell.FormulaR1C1 = "Yearly Change"
 Range("K1").Select
 ActiveCell.FormulaR1C1 = "Percent Change"
 Range("L1").Select
 ActiveCell.FormulaR1C1 = "Total Stock Voume"

End Sub
'==================================================================
' codes created in Moduel 2
'Macro is assigned to "Clear Enterred Data" Button
Sub ClearEnterredData()

  Dim i As Integer

  i = 1

   Do While i <= Worksheets.Count
      Worksheets(i).Select

  Range("I:Q").ClearContents
  Range("I:Q").Interior.Color = xlNone

  i = i + 1

 Loop

End Sub
```