Sub StockInfo()

' Define the variables
Dim ws As Worksheet
Dim lastRow As Long, i As Long, startRow As Long
Dim ticker As String, openPrice As Double, closePrice As Double
Dim yearlyChange As Double, percentChange As Double, totalVolume As Double
Dim outputRow As Long ' The row number where the output should start

Variables for tracking greatest increase, decrease and total volume
Dim greatestIncrease As Double, greatestDecrease As Double, greatestVolume As Double
Dim increaseTicker As String, decreaseTicker As String, volumeTicker As String

' Set the worksheet
Set ws = Workbooks("Multiple_year_stock_data.xlsx").Sheets("2018") ' Replace with your sheet name

' Set the initial output row outputRow = 2 ' Change to the row where you want the output to start

'Initialize tracking variables greatestIncrease = 0 greatestDecrease = 0 greatestVolume = 0

' Find the last row of data lastRow = ws.Cells(Rows.Count, 1).End(xIUp).Row

'Initialize start row startRow = 2

'Initialize the ticker symbol ticker = ws.Cells(startRow, 1).Value

'Initialize the opening price openPrice = ws.Cells(startRow, 3).Value

' Set column titles ws.Cells(1, 9).Value = "Ticker" ws.Cells(1, 10).Value = "Yearly Change" ws.Cells(1, 11).Value = "Percent Change"

ws.Cells(1, 12).Value = "Total Stock Volume"

Loop through each row of data For i = startRow To lastRow

^{&#}x27;Check if we are still within the same ticker symbol

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If ws.Cells(i + 1, 1).Value <> ticker Then
      ' Set the closing price
      closePrice = ws.Cells(i, 6).Value
      ' Calculate the yearly change
      yearlyChange = closePrice - openPrice
      'Calculate the percentage change
      If openPrice <> 0 Then
        percentChange = yearlyChange / openPrice
      Else
        percentChange = 0
      End If
      ' Calculate the total volume
      totalVolume = Application.WorksheetFunction.Sum(ws.Range(ws.Cells(startRow, 7),
ws.Cells(i, 7)))
      'Output the results to the worksheet
      With ws.Cells(outputRow, 10)
        .Value = yearlyChange
        'Clear any existing format conditions
        .FormatConditions.Delete
        ' Add conditional formatting
        .FormatConditions.Add Type:=xlExpression, Formula1:="=" & .Address & "<0"
        .FormatConditions(1).Interior.Color = RGB(255, 0, 0) ' Red for negative
        .FormatConditions.Add Type:=xlExpression, Formula1:="=" & .Address & ">0"
        .FormatConditions(2).Interior.Color = RGB(0, 255, 0) ' Green for positive
      End With
      With ws.Cells(outputRow, 11)
        .Value = percentChange * 100
        'Clear any existing format conditions
         .FormatConditions.Delete
        ' Add conditional formatting
        .FormatConditions.Add Type:=xlExpression, Formula1:="=" & .Address & "<0"
        .FormatConditions(1).Interior.Color = RGB(255, 0, 0) ' Red for negative
        .FormatConditions.Add Type:=xlExpression, Formula1:="=" & .Address & ">0"
        .FormatConditions(2).Interior.Color = RGB(0, 255, 0) ' Green for positive
      End With
      ws.Cells(outputRow, 9).Value = ticker
      ws.Cells(outputRow, 12).Value = totalVolume
      'Check if the current ticker has the greatest increase, decrease or volume
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If percentChange > greatestIncrease Then

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greatestIncrease = percentChange
      increaseTicker = ticker
    End If
    If percentChange < greatestDecrease Then
      greatestDecrease = percentChange
      decreaseTicker = ticker
    End If
    If totalVolume > greatestVolume Then
      greatestVolume = totalVolume
      volumeTicker = ticker
    End If
    ' Move on to the next output row
    outputRow = outputRow + 1
    ' Move on to the next ticker
    startRow = i + 1
    ticker = ws.Cells(startRow, 1).Value
    openPrice = ws.Cells(startRow, 3).Value
  End If
Next i
'Output the greatest increase, decrease, and volume
ws.Cells(1, 15).Value = ""
ws.Cells(1, 16).Value = "Ticker"
ws.Cells(1, 17).Value = "Value"
ws.Cells(2, 15).Value = "Greatest % Increase"
ws.Cells(2, 16).Value = increaseTicker
ws.Cells(2, 17).Value = greatestIncrease * 100
ws.Cells(3, 15).Value = "Greatest % Decrease"
ws.Cells(3, 16).Value = decreaseTicker
ws.Cells(3, 17).Value = greatestDecrease * 100
ws.Cells(4, 15).Value = "Greatest Total Volume"
ws.Cells(4, 16).Value = volumeTicker
ws.Cells(4, 17).Value = greatestVolume
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End Sub