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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("2020") ' 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(xlUp).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

        ' 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
        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

End Sub
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