Module 2 Challenge

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**Retrieval of Data (20 points)**

* The script loops through one quarter of stock data and reads/ stores all of the following values from each row:
  + ticker symbol (5 points)
  + volume of stock (5 points)
  + open price (5 points)
  + close price (5 points)

See attached files in submittal.

* Excel file: Multiple\_year\_stock\_data-wcd
* VBS file: quarter\_single.vbs or quarter\_all.vbs
  + ticker symbol 🡪 Dim Ticker As String
  + volume of stock 🡪 Dim Vol as Double
  + open price 🡪 Dim OpenValue as Double
  + close price 🡪 Dim CloseValue as Double
* Screencaps: Q1\_screenshot, Q2\_screenshot, Q3\_screenshot, Q4\_screenshot

**Column Creation (10 points)**

* On the same worksheet as the raw data, or on a new worksheet all columns were correctly created for:
  + ticker symbol (2.5 points)
  + total stock volume (2.5 points)
  + quarterly change ($) (2.5 points)
  + percent change (2.5 points)

See attached files in submittal.

* Excel file: Multiple\_year\_stock\_data-wcd
* VBS file: quarter\_single.vbs or quarter\_all.vbs
  + ticker symbol 🡪 ws.Range("I" & SummaryRow).Value = "Ticker”
  + total stock volume 🡪 ws.Range("J" & SummaryRow).Value = "Quarterly Change"
  + quarterly change 🡪 ws.Range("J" & SummaryRow).Value = "Quarterly Change"
  + percent change 🡪 ws.Range("K" & SummaryRow).Value = "Percent Change"
* Screencaps: Q1\_screenshot, Q2\_screenshot, Q3\_screenshot, Q4\_screenshot

**Conditional Formatting (20 points)**

* Conditional formatting is applied correctly and appropriately to the quarterly change column (10 points)
* Conditional formatting is applied correctly and appropriately to the percent change column (10 points)

See attached files in submittal.

* Excel file: Multiple\_year\_stock\_data-wcd
* VBS file: quarter\_single.vbs or quarter\_all.vbs
  + quarterly change column 🡪 see code below
    - Formatting

ws.Range("J" & SummaryRow).NumberFormat = "0.00"

* + - Conditional coloring

If QtrChangeNum > 0 Then

ws.Range("J" & SummaryRow).Interior.ColorIndex = 4

ElseIf QtrChangeNum < 0 Then

ws.Range("J" & SummaryRow).Interior.ColorIndex = 3

Else

ws.Range("J" & SummaryRow).Interior.ColorIndex = xlNone

End If

* + percent change column
    - Formatting

ws.Range("J" & SummaryRow).NumberFormat = "0.00"

* Screencaps: Q1\_screenshot, Q2\_screenshot, Q3\_screenshot, Q4\_screenshot

**Calculated Values (15 points)**

* All three of the following values are calculated correctly and displayed in the output:
  + Greatest % Increase (5 points)
  + Greatest % Decrease (5 points)
  + Greatest Total Volume (5 points)

See attached files in submittal.

* Excel file: Multiple\_year\_stock\_data-wcd
* VBS file: quarter\_single.vbs or quarter\_all.vbs
  + Greatest % Increase (5 points) 🡪 see code below
  + Greatest % Decrease (5 points) 🡪 see code below
  + Greatest Total Volume (5 points) 🡪 see code below

SumHigh = ws.Cells(2, 11)

SumLow = ws.Cells(2, 11)

SumVol = ws.Cells(2, 12)

For j = jStart To (jEnd - 1)

If ws.Cells(j + 1, 11) > SumHigh Then

SumHigh = ws.Cells(j + 1, 11)

SumTickerHigh = ws.Cells(j + 1, 9)

ElseIf ws.Cells(j + 1, 11) < SumLow Then

SumLow = ws.Cells(j + 1, 11)

SumTickerLow = ws.Cells(j + 1, 9)

ElseIf ws.Cells(j + 1, 12) > SumVol Then

SumVol = ws.Cells(j + 1, 12)

SumTickerVol = ws.Cells(j + 1, 9)

End If

Next j

* Screencaps: Q1\_screenshot, Q2\_screenshot, Q3\_screenshot, Q4\_screenshot

**Looping Across Worksheet (20 points)**

* The VBA script can run on all sheets successfully.

See attached files in submittal.

* Excel file: Multiple\_year\_stock\_data-wcd
* VBS file: quarter\_all.vbs

**GitHub/GitLab Submission (15 points)**

* All three of the following are uploaded to GitHub/GitLab:
  + Screenshots of the results (5 points)

See attached files in submittal.

* Screencaps: Q1\_screenshot, Q2\_screenshot, Q3\_screenshot, Q4\_screenshot
  + Separate VBA script files (5 points)

See attached files in submittal.

* VBS files: quarter\_single.vbs or quarter\_all.vbs
  + README file (5 points)

See attached files in submittal.