Unit Assessment: Excel & VBA

Due Aug 22 by 11:59pm **Points** 100 **Submitting** an external tool

You are about to complete your first Unit Assessment! This Unit Assessment allows you to check your knowledge, as well as demonstrate your competency in key concepts from Modules 1 and 2.

After submitting the assessment here, you will see a summary of your performance. While you will not be able to see your performance on individual questions, you are allowed unlimited attempts to complete the assessment.

Some of the questions on this assessment require specific resources. Download the following resources before you get started.

<u>Top5000Songs_Unsolved.xlsx</u> (https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/Unit-Assessment-Resources/M2-UA-Excel-VBA/Top5000Songs_Unsolved.xlsx)

<u>conditional_formatting.xlsx</u> (https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/Unit-Assessment-Resources/M2-UA-Excel-VBA/conditional_formatting.xlsx)

<u>ProductionPivot_Unsolved.xlsx</u> (https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/Unit-Assessment-Resources/M2-UA-Excel-VBA/ProductionPivot_Unsolved.xlsx)

<u>house_data.csv</u> (https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/Unit-Assessment-Resources/M2-UA-Excel-VBA/house_data.csv)

<u>ePhone_prices.xlsx</u> <u>(https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/Unit-Assessment-Resources/M2-UA-Excel-VBA/ePhone_prices.xlsx)</u>

<u>star_counter.xlsm</u> (https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/Unit-Assessment-Resources/M2-UA-Excel-VBA/star_counter.xlsm)



Question 1

Using Top5000Songs Unsolved.xlsx, what is the mean (to the nearest hundredth) of "final score" for all 5,000 songs?

8.19



8.18

8.20

8.189089

Attempt #1: 5/5 (Score: 5/5)

Question 2

Using Top5000Songs_Unsolved.xlsx, what is the median (to the nearest hundredth) of "raw_usa" for all 5,000 songs?

- 3.31
- 474
- 4.345
- 4.34

Attempt #1: 5/5 (Score: 5/5)

Question 3

Using Top5000Songs_Unsolved.xlsx, what is the standard deviation (to the nearest hundredth) of "raw_eng" for all 5,000 songs?

- 2.65
- 2.654
- 2.66
- 2.655

Attempt #1: 5/5 (Score: 5/5)

Question 4

Using Top5000Songs_Unsolved.xlsx, what is the median (to the nearest thousandth) "raw_usa" score for songs after 1980?

- 4.340
- 3.508
 - 3.51
 - 0 4.34

Attempt #1: 5/5 (Score: 5/5)

Question 5

Use Top5000Songs Unsolved.xlsx.

- 1. Select all of the data within the "Top 5000 Songs" worksheet and then create a new pivot table.
- 2. Make a pivot table that can be filtered by "year" and contains two rows: "artist" and "name. All of an artist's songs should be listed below their name.
- 3. Update your pivot table to contain values for:
 - how many songs an artist has in the top 5,000
 - o the sum of the "final score" of their songs
- 4. Sort your pivot table by descending sum of the "final score."

What is the sum (to the nearest thousandth) of "final score" for the #3 artist?

486.932

0 610.779

293.326

486.93

Attempt #1: 5/5 (Score: 5/5)

Question 6

Open conditional_formatting.xlsx and select the range A1:A20.

Under "Conditional Formatting," select "Icon Sets" followed by "Indicators." Then choose the "3 Symbols (Uncircled)."

What icon is applied to cell A1?

- Green checkmark
- Yellow circle
- Green arrow
- Exclamation point

Red X

Attempt #1: 5/5 (Score: 5/5)

Question 7

Open ProductionPivot_Unsolved.xlsx.

- 1. Use a VLOOKUP() that references each row's "Product ID" and determine the "Product Price" of each row in the Orders sheet. The "Product Price" of a row does not include shipping.
- 2. Use a VLOOKUP() that references each row's "Shipping Priority" and determine the "Shipping Price" of each row in the Orders sheet.
- 3. Next, select all of the data in the Orders sheet and create a pivot table in a new sheet that calculates the sum of both "Product Price" and "Shipping Price" for each "Order Number" and "Product ID."

Using the pivot table, what is the highest total order price (total product price plus total shipping price) to the nearest cent?

\$320.47

\$282.72

\$157.84

\$648.53

Attempt #1: 5/5 (Score: 5/5)

Question 8

Using house_data.csv and the 1.5*IQR rule, how many house prices are outliers?

Note: Use the QUARTILE.EXC function in Excel to calculate quartiles.

- 0
- 1159
- 566
- \$1,129,912.50

Attempt #1: 5/5 (Score: 5/5)

Question 9

Using house_data.csv and the rule that outliers are greater than 3 standard deviations from the mean, how many house prices are outliers?

Note: Use the STDEV.P function in Excel to calculate standard deviations.

- 406
 - 21207
 - 1159
 - **13**

Attempt #1: 5/5 (Score: 5/5)

Question 10

An analyst sends you a price list of ePhones in a panic. They accidentally deleted one of the prices and didn't have it stored anywhere else. All they have is a PDF report that says the mean of the prices was \$725, and the median price was \$750. The other phone prices are \$500, \$600, \$700, \$800, and \$900. What is the missing price?

- 900
- 850
- **750**
- 0 1000

Attempt #1: 5/5 (Score: 5/5)

Question 11

That analyst calls you up the next day, in another panic. They have a list of lead concentration measurements from soil samples, but they've accidentally deleted another entry. The sample measurements were 35, 45, 45, 50, 70, and 75 ppm. They have a report that says the standard deviation of measurements was exactly 15 ppm. What is the

- There are no commits yet.
- "Initial commit"

Attempt #1: 5/5 (Score: 5/5)

Question 14

Open star_counter.xlsm.

Create a VBA script that tallies the number of "Full Stars" per student and enters them into the Total column.

What is the average number (to the nearest hundredth) of stars for each student?

- 3.37
- 3.3
- 3.36

□ 3 1 1 1

U.4U

```
Attempt #1: 5/5 (Score: 5/5)
```

Question 15

The following code has a syntax error. Which line of code contains the syntax error?

```
1 Sub SumNumbers()
       Dim total As Integer
 2
 3
       total = 0
 4
       For i = 1 To 100
 5
           total = total + i
       End For
 6
 7
       MsgBox (i)
 8 End Sub
  Line 1
  Line 2
  Line 3
  Line 4
  Line 5
  Line 6
  Line 7
  Line 8
Attempt #1: 5/5 (Score: 5/5)
```

Question 16

The following code snippet calculates the sum of values in cells A1 to A100, but one line has been obscured with asterisks (***). What is the obscured line?

```
*******
For i = 1 To 100

total = total + Cells(i, 1).Value

Next i
```

		total = 0	~
		MsgBox("total")	
		<pre>Sub Calculate():</pre>	
Α	ttem	pt #1: 5/5 (Score: 5/5)	

Question 17

What keyword is used to initialize a variable in VBA?

- RunDimNextSub
- Attempt #1: 5/5 (Score: 5/5)

Question 18

What VBA method is used to generate a message box?

- Msg Box
- MgBx
- MsgBox
 - MessageBox
 - Message Box

Attempt #1: 5/5 (Score: 5/5)

Question 19

A junior analyst tells their coworker that the InputBox method is used to take input from the user in VBA. Is this a correct statement?

- No, the correct method is the input() method.
- No, the correct method is the InputUsr method.
- Yes, the statement is correct.

Attempt #1: 5/5 (Score: 5/5)

Question 20

Open a new Excel file, and write your favorite number in cell A1. Write a VBA macro to format cell A1 as a percentage

נט מ נכוונוו טו מ אבוטכווג מווע אבו נווכ וטווג אנצוכ נט אטוע.

Which of the following snippets will run correctly in your macro?

```
Range("A1").NumberFormat = vbPercent(1)
Range("A1").Font.FontStyle = "Bold"

Range("A1").NumberFormat = "0.0%"
Range("A1").Font.FontStyle = vbBold

Range("A1").NumberFormat = vbPercent(1)
Range("A1").Font.FontStyle = vbBold

Range("A1").NumberFormat = "0.0%"
Range("A1").Font.FontStyle = "Bold"

Attempt #1: 5/5 (Score: 5/5)

C Retake
```