



Monmouth
COLLEGE

- Name: _____
 - Date: _____
 - Section: Section 2 (2:00 PM ~ 2:50 PM)
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BUSI 201 Business Data Analysis

Quiz #2: Functions

Spring 2024

INSTRUCTIONS:

- Credit will be awarded for the correct use of formulae and functions, and no credit shall be awarded to manually typed-in answers even if the values are correct.
- Once you are finished, save/ rename the workbook to [LoginID-quiz2.xlsx](#), and submit your results via email to BPARK@monmouthcollege.edu.
- [BUSI201-S2024-Q02-S02-Workbook.xlsx](#) is the companion workbook for this quiz.
- The workbook consists of 2 worksheets: [Quiz2-Sheet1-S02](#) and [Quiz2-Sheet2-S02](#)
- The quiz booklet contains 2 problems.
- Double-check your submission email for your attached file, file name, and receiver's email address, as you will not be permitted to submit or update your solutions past the in-class deadline.
- The recovery rate for Quiz #2 will be 50%.

Problem #1. Air Pollution

The worksheet Quiz2-Sheet1-S02 contains real world data on mortality caused by air pollution. Using the data provided in this worksheet, complete the following three tasks.

- 1.A.** Fill in the **Red Box: A** with the percentage change from 2010 to 2019. The percentage change can be calculated using the following formula: $\frac{\text{Value in 2019}}{\text{Value in 2010}}$.
- 1.B.** Fill in the **Blue Box: B** with the ranking of each country's deaths per 100,000 as of 2019. The country with the *lowest* deaths should be ranked as #1.

Country	Deaths per 100,000			Rank
	2010	2019	% CHANGE	
Afghanistan	38.09	56.90		
Albania	40.05	36.93		
Algeria	82.29	76.53		
American Samoa	16.15	17.32		
Andorra	10.45	7.17		
Angola	29.41	45.04		
Antigua and Barbuda	33.38	32.80		
Argentina	24.68	23.24		

- 1.C.** Fill in the **Green Box: C** by answering each question listed in the table.

QUESTIONS	ANSWER
How many deaths per 100,000 do you see in...	
The country with the highest deaths per 100,000?	
The country with the lowest deaths per 100,000?	C
The country with the 10th lowest deaths per 100,000?	

QUESTIONS	ANSWER
How many countries are listed in this dataset?	
What is the average % change between 2010 and 2019?	C

Problem #2. Budgets

The worksheet Quiz2-Sheet2-S02 contains a hypothetical budget for a household.

2.A. Fill in the **Red Box: A** by adding all values above each of the cells. For instance, cell C17 (left-most cell in the red box) should contain information on the total amount budgeted.

2.B. Fill in the **Blue Box: B** by finding the percentage that each category of spend takes up in the total budget. For instance, cell D5 should contain the following: $\frac{\text{Amount Budgeted to Rent}}{\text{Total Amount Budgeted}}$

2.C. Fill in the **Green Box: C** by finding the amount left in the budget. For instance, this household has -\$2.7 left for PHONE, and \$24.16 left for GROCERIES, and so on.

CATEGORY	BUDGET	% OF TOTAL BUDGET	ACTUAL SPENDING	REMAINING
RENT	\$ 800.00		\$ 800.00	
GROCERIES	\$ 400.00		\$ 375.84	
DINING	\$ 250.00		\$ 127.41	
UTILITIES	\$ 100.00		\$ 87.33	
PHONE	\$ 40.00		\$ 42.70	
INTERNET	\$ 50.00	B	\$ 50.00	C
AUTOMOBILE	\$ 430.00		\$ 261.47	
GASOLINE	\$ 40.00		\$ 59.14	
INSURANCE	\$ 75.00		\$ 75.00	
SHOPPING	\$ 200.00		\$ 256.03	
PERSONAL	\$ 50.00		\$ 49.08	
ENTERTAINMENT	\$ 50.00		\$ 6.98	
TOTAL			A	

- Original Score: _____

- Recovered Score: _____

- Original Date: _____

- Recovered Date: _____