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## **BUSI 201 Business Data Analysis**

Quiz #2: Basic Functions

Fall 2024

## **INSTRUCTIONS:**

- Once you are finished, save/rename the workbook to LoginID-quiz2.xlsx, and submit your results via email to BPARK@monmouthcollege.edu.
- BUSI201-F2024-Q02-Workbook.xlsx is the companion workbook for this quiz.
- The workbook consists of 2 worksheets: Quiz2-Sheet1 and Quiz2-Sheet2
- 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.

## Problem #1. Basic Operations & Functions

The worksheet Quiz2-Sheet1 contains a mock daily sales report for a local gas station. Using the data provided in the worksheet, complete the following tasks:

Date	Gallons Sold	Price per Gallon		Revenue	Rank
7/1/2024	227.2	\$	5.30		
7/2/2024	399.1	\$	5.89		
7/3/2024	315.7	\$	4.54		
7/4/2024	570.9	\$	4.83	$\mid \mathbf{A} \mid$	B
7/5/2024	477.7	\$	4.16	•	
7/6/2024	293.7	\$	5.30		
7/7/2024	257.5	\$	5.31		

1.A. Fill in the Red Box: A by finding the daily revenue value for the gas station. Daily revenue can be calculated using the following formula:

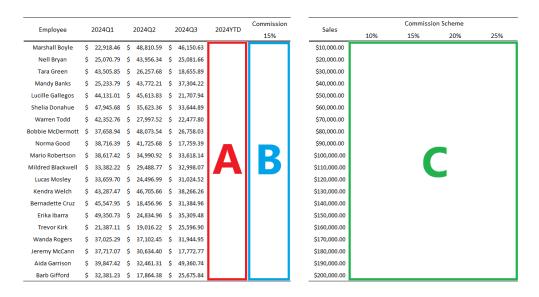
$$\texttt{Revenue} = \texttt{Gallons} \ \ \texttt{Sold} \times \texttt{Price} \ \ \texttt{per} \ \ \texttt{Gallon}$$

- 1.B. Fill in the Blue Box: B with the daily revenue rankings. Make sure that the day with the greatest revenue must be ranked #1.
- 1.C. Fill in the Green Box: C by finding the answers for the four questions 1~4 listed in the table below.

	Questions	Answer
1	What was your <u>revenue</u> on the day with the third lowest revenue in July 2024?	
2	How many gallons of gasoline did you sell on the day you sold the most gasoline?	
3	What was your average daily revenue for July 2024?	
4	How much was a gallon of gasoline when it was the most expensive?	

## Problem #2. Relative, Absolute, and Mixed Referencing

Navigate to worksheet Quiz2-Sheet2 and complete the following tasks.



2.A. Fill in the Red Box: A by finding each employee's year-to-date sales total.

$$2024$$
YTD =  $2024$ Q1 +  $2024$ Q2 +  $2024$ Q3

2.B. Fill in the Blue Box: B with the commissions that each employee earned year-to-date. The commission rate is given in cell G3.

$$Commission = 2024YTD \times Commission Rate$$

2.C. Fill in the Green Box: C by fill the table with the hypothetical comission income for employees. For instance, cell J4 should contain information on the hypothetical commission income for an employee that records \$10,000 in sales when the commission rate is 10%.

- Original Score: \_\_\_\_\_\_\_\_
- Recovered Score:
  \_\_\_\_\_\_\_\_
- Original Date: \_\_\_\_\_\_\_
- Recovered Date: \_\_\_\_\_\_\_