Monmouth COLLEGE

- Name: _____
- Date: _____
- Section: _____

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	A	B
7/2/2024	399.1	$ 5.89		
7/3/2024	315.7	$ 4.54		
7/4/2024	570.9	$ 4.83		
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:

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

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 revenue on the day with the third lowest revenue in July 2024?	C
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.

Employee	2024Q1	2024Q2	2024Q3	2024YTD	Commission 15%
Marshall Boyle	$ 22,918.46	$ 48,810.59	$ 46,150.63	A	B
Nell Bryan	$ 25,070.79	$ 43,956.34	$ 25,081.66		
Tara Green	$ 43,505.85	$ 26,257.68	$ 18,655.89		
Mandy Banks	$ 25,233.79	$ 43,772.21	$ 37,304.22		
Lucille Gallegos	$ 44,131.01	$ 45,613.83	$ 21,707.94		
Shelia Donahue	$ 47,945.68	$ 35,623.36	$ 33,644.89		
Warren Todd	$ 42,352.76	$ 27,997.52	$ 22,477.80		
Bobbie McDermott	$ 37,658.94	$ 48,073.54	$ 26,758.03		
Norma Good	$ 38,716.39	$ 41,725.68	$ 17,759.39		
Mario Robertson	$ 38,617.42	$ 34,990.92	$ 33,618.14		
Mildred Blackwell	$ 33,382.22	$ 29,488.77	$ 32,998.07		
Lucas Mosley	$ 33,659.70	$ 24,496.99	$ 31,024.52		
Kendra Welch	$ 43,287.47	$ 46,705.66	$ 38,266.26		
Bernadette Cruz	$ 45,547.95	$ 18,456.96	$ 31,384.96		
Erika Ibarra	$ 49,350.73	$ 24,834.96	$ 35,309.48		
Trevor Kirk	$ 21,387.11	$ 19,016.22	$ 25,596.90		
Wanda Rogers	$ 37,025.29	$ 37,102.45	$ 31,944.95		
Jeremy McCann	$ 37,717.07	$ 30,634.40	$ 17,772.77		
Aida Garrison	$ 39,847.42	$ 32,461.31	$ 49,360.74		
Barb Gifford	$ 32,381.23	$ 17,864.38	$ 25,675.84		

Sales	Commission Scheme 10%	15%	20%	25%
$10,000.00	C			
$20,000.00				
$30,000.00				
$40,000.00				
$50,000.00				
$60,000.00				
$70,000.00				
$80,000.00				
$90,000.00				
$100,000.00				
$110,000.00				
$120,000.00				
$130,000.00				
$140,000.00				
$150,000.00				
$160,000.00				
$170,000.00				
$180,000.00				
$190,000.00				
$200,000.00				

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

$$\texttt{2024YTD} = \texttt{2024Q1} + \texttt{2024Q2} + \texttt{2024Q3}$$

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`.

$$\texttt{Commission} = \texttt{2024YTD} \times \texttt{Commission Rate}$$

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: _____
- Original Date: _____
- Recovered Score: _____
- Recovered Date: _____