



Monmouth
COLLEGE

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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	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:

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

- 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.

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

- 1.C. Fill in the **Orange Box: C** by finding the answers for the four questions 1~4 listed in the table above.

Problem #2. Relative, Absolute, and Mixed Referencing

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

Employee	2024Q1	2024Q2	2024Q3	2024YTD	Commission	Sales	Commission Scheme			
					15%		10%	15%	20%	25%
Marshall Boyle	\$ 22,918.46	\$ 48,810.59	\$ 46,150.63	A	B	\$10,000.00	C			
Nell Bryan	\$ 25,070.79	\$ 43,956.34	\$ 25,081.66			\$20,000.00				
Tara Green	\$ 43,505.85	\$ 26,257.68	\$ 18,655.89			\$30,000.00				
Mandy Banks	\$ 25,233.79	\$ 43,772.21	\$ 37,304.22			\$40,000.00				
Lucille Gallegos	\$ 44,131.01	\$ 45,613.83	\$ 21,707.94			\$50,000.00				
Shelia Donahue	\$ 47,945.68	\$ 35,623.36	\$ 33,644.89			\$60,000.00				
Warren Todd	\$ 42,352.76	\$ 27,997.52	\$ 22,477.80			\$70,000.00				
Bobbie McDermott	\$ 37,658.94	\$ 48,073.54	\$ 26,758.03			\$80,000.00				
Norma Good	\$ 38,716.39	\$ 41,725.68	\$ 17,759.39			\$90,000.00				
Mario Robertson	\$ 38,617.42	\$ 34,990.92	\$ 33,618.14			\$100,000.00				
Mildred Blackwell	\$ 33,382.22	\$ 29,488.77	\$ 32,998.07			\$110,000.00				
Lucas Mosley	\$ 33,659.70	\$ 24,496.99	\$ 31,024.52			\$120,000.00				
Kendra Welch	\$ 43,287.47	\$ 46,705.66	\$ 38,266.26			\$130,000.00				
Bernadette Cruz	\$ 45,547.95	\$ 18,456.96	\$ 31,384.96			\$140,000.00				
Erika Ibarra	\$ 49,350.73	\$ 24,834.96	\$ 35,309.48			\$150,000.00				
Trevor Kirk	\$ 21,387.11	\$ 19,016.22	\$ 25,596.90			\$160,000.00				
Wanda Rogers	\$ 37,025.29	\$ 37,102.45	\$ 31,944.95			\$170,000.00				
Jeremy McCann	\$ 37,717.07	\$ 30,634.40	\$ 17,772.77			\$180,000.00				
Aida Garrison	\$ 39,847.42	\$ 32,461.31	\$ 49,360.74			\$190,000.00				
Barb Gifford	\$ 32,381.23	\$ 17,864.38	\$ 25,675.84			\$200,000.00				

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

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

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.

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

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: _____