- Name: _____
- Date: _____
- Section: Section 2 (2:00 PM ∼ 2:50 PM)

BUSI 201 Business Data Analysis

Quiz #4: Conditional Formatting

Spring 2024

INSTRUCTIONS:

- Credit will be awarded for the correct application of filters and conditional formatting, and no credit shall be awarded to manually formatted answers.

- Once you are finished, save/rename the workbook to `LoginID-quiz4.xlsx`, and submit your results via email to `BPARK@monmouthcollege.edu`.

- `BUSI201-S2024-Q04-S02-Workbook.xlsx` is the companion workbook for this quiz.

- The workbook consists of 5 worksheets: `Quiz4-Sheet01-S02` through `Quiz4-Sheet05-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 #4 will be 50%.
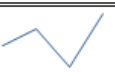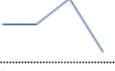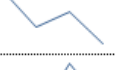
Problem #1. Productivity Growth

Problem 1 requires you to work on two worksheets, `Quiz4-Sheet01-S02` and `Quiz4-Sheet02-S02`, which are essentially duplicates. Both worksheets contain real-world data on the growth of productivity in the US. Use the data in these worksheets to complete to following tasks. The figures need not exactly match the given example.

1.A. Navigate to the worksheet `Quiz4-Sheet01-S02`. Apply conditional formatting to the table so that the rows representing the data on years where the `Annual` growth rate is greater than or equal to 4%.

	% Change of Productivity (from US BLS)				
Year	Q1	Q2	Q3	Q4	Annual
1947	0	9.4	-11.7	18	5.23
1948	1.8	-1	0.4	1.7	0.73
1949	4.1	4.2	9.9	-2.1	4.03
1950	14.4	5	9	0.7	7.28
1951	0.5	-1.2	9.2	1.2	2.43
1952	2.1	-0.8	-1.9	8.7	2.03
1953	3.5	0.9	1.7	-1.4	1.18

1.B. Navigate to the worksheet `Quiz4-Sheet02-S02`. Create a new column named `Trend` between `Year` and `Q1`, and use sparklines to plot each years' quarterly change of productivity as shown in the Red Box below.

1.C. Staying in worksheet `Quiz4-Sheet02-S02`, apply conditional formatting to the data so that the top 50% of quarterly growth rates are highlighted as shown in the Blue Box below.

	% Change of Productivity (from US BLS)				
Year	Trend	Q1	Q2	Q3	Q4
1947		0	9.4	-11.7	18
1948		1.8	-1	0.4	1.7
1949		4.1	4.2	9.9	-2.1
1950		14.4	5	9	0.7
1951		0.5	-1.2	9.2	1.2

Problem #2. Filtering and Sorting

Problem 2 requires you to work on three worksheets, `Quiz4-Sheet03-S02`, `Quiz4-Sheet04-S02`, and `Quiz4-Sheet05-S02`.

2.A. Navigate to the worksheet `Quiz4-Sheet03-S02`. Apply filters such that only counties with a population greater than or equal to 20,000 is visible to the reader.

2.B. Navigate to the worksheet `Quiz4-Sheet04-S02`. Apply filters such that only information on stock in the `Technology` sector in August 2023 is visible to the reader.

2.C. Navigate to the worksheet `Quiz4-Sheet05-S02`. Sort the data such that the listing is sorted alphabetically by `Make`, and then by lower `Price` as shown in the figure below.

Make	Model	Year	Mileage	Price
Chevrolet	Malibu	2016	65,000	$ 11,500.00
Chevrolet	Equinox	2015	55,000	$ 13,200.00
Chevrolet	Silverado	2016	56,000	$ 23,500.00
Chevrolet	Camaro	2017	27,000	$ 29,500.00
Ford	Taurus	2016	50,000	$ 12,000.00
Ford	Fusion	2017	30,000	$ 14,500.00
Ford	Escape	2019	22,000	$ 19,800.00
Ford	Edge	2018	39,000	$ 20,000.00
Ford	Explorer	2018	42,000	$ 22,000.00
Ford	F-150	2017	60,000	$ 25,500.00
Ford	Mustang	2017	29,000	$ 28,000.00
GMC	Acadia	2016	60,000	$ 18,500.00
GMC	Sierra	2016	62,000	$ 26,000.00

- Original Score: _____

- Recovered Score: _____

- Original Date: _____

- Recovered Date: _____