



Monmouth
COLLEGE

- Name: _____
 - Date: _____
 - Section: Section 1 (10:00 AM ~ 10:50 AM)
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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-S01-Workbook.xlsx](#) is the companion workbook for this quiz.
- The workbook consists of 5 worksheets: Quiz4-Sheet01-S01 through Quiz4-Sheet05-S01
- 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. Gradebook

Problem 1 requires you to work on two worksheets, Quiz4-Sheet01-S01 and Quiz4-Sheet02-S01, which are essentially duplicates. The data in either worksheet is that of a hypothetical gradebook for some college level course. 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-S01. Apply conditional formatting to the table so that the rows representing the data on students whose Total score is greater than or equal to 90.

First Name	Last Name	Major	Attendance	Quiz	Midterm	Final	Total
Alice	Johnson	Computer Science	90	85	55	88	77.7
Bob	Smith	Economics	95	92	80	91	88.3
Charlie	Brown	Biology	88	76	82	79	80.2
David	Davis	History	92	88	95	99	94.9
Eve	Wilson	Psychology	89	48	86	92	81.1
Frank	White	English	91	78	80	87	83.5
Grace	Miller	Chemistry	94	96	89	94	92.9
Hannah	Martinez	Mathematics	93	85	87	90	88.4
Ian	Anderson	Physics	87	62	84	78	77.5
Jack	Wilson	Computer Engineering	90	89	86	91	89
Katie	Taylor	Marketing	92	87	78	85	84
Liam	Harris	Political Science	67	70	54	80	68.9
Mia	Turner	Sociology	88	75	80	79	79.4
Noah	Clark	Environmental Science	89	93	87	91	90
Olivia	Scott	Business Administration	94	88	85	92	89.3

1.B. Navigate to the worksheet Quiz4-Sheet02-S01. Create a new column between Final and Total, and use sparklines to plot the students' Attendance, Quiz, Midterm, and Final score as shown in the Red Box below.

1.C. Staying in worksheet Quiz4-Sheet2-S01, apply conditional formatting to the table so that the bottom 20% of attendance scores are highlighted as shown in the Blue Box below.

First Name	Last Name	Major	Attendance	Quiz	Midterm	Final	Sparkline	Total
Alice	Johnson	Computer Science	90	85	55	88		77.7
Bob	Smith	Economics	95	92	80	91		88.3
Charlie	Brown	Biology	88	76	82	79		80.2
David	Davis	History	92	88	95	99		94.9
Eve	Wilson	Psychology	89	48	86	92		81.1
Frank	White	English	91	78	80	87		83.5
Grace	Miller	Chemistry	94	96	89	94		92.9
Hannah	Martinez	Mathematics	93	85	87	90		88.4
Ian	Anderson	Physics	87	62	84	78		77.5

Problem #2. Real Estate

Problem 2 requires you to work on three worksheets, Quiz4-Sheet03-S01, Quiz4-Sheet04-S01, and Quiz4-Sheet05-S01. Each worksheet contains a synthetic dataset of some real estate properties near Chicago, IL.

- 2.A. Navigate to the worksheet Quiz4-Sheet03-S01. Apply filters such that only houses with exactly 3 bedrooms are visible to the reader.
- 2.B. Navigate to the worksheet Quiz4-Sheet04-S01. Apply filters such that only houses in Chicago, which have been on the market for longer than 30 days are visible to the reader.
- 2.C. Navigate to the worksheet Quiz4-Sheet05-S01. Sort the data such that the house listing is sorted alphabetically by City, and then by lower Asking Price as shown in the figure below.

ID	State	County	City	Street Address	# Bed	# Bath	Asking Price	Year Built	Days on Market	Home Type	Renovation Date	HOA
31958	IL	Cook	Chicago	1111 Oak St	1	1	\$ 190,000.00	Jun/06/1972	12	Condo	Sep/13/1989	400
69233	IL	Cook	Chicago	505 Cherry St	1	1	\$ 200,000.00	Apr/04/1961	10	Condo	Sep/24/1971	450
63678	IL	Cook	Chicago	1010 Pine St	2	2	\$ 280,000.00	Sep/08/2006	18	Condo	Mar/07/2019	350
24755	IL	Cook	Chicago	404 Walnut St	2	1	\$ 300,000.00	Nov/15/1987	15	Condo	Jan/10/2000	500
59338	IL	Cook	Chicago	123 Main St	3	2.5	\$ 450,000.00	Jun/14/1967	35	Single Family	May/23/1981	250
61241	IL	Cook	Chicago	1616 Spruce St	3	2.5	\$ 480,000.00	Nov/07/2008	35	Single Family	May/19/2022	0
97313	IL	Cook	Chicago	1717 Cedar St	4	3	\$ 550,000.00	Apr/09/1977	40	Single Family	Jun/06/1990	0
94787	IL	Cook	Chicago	456 Elm St	4	3	\$ 600,000.00	Sep/03/1975	45	Single Family	Sep/01/1993	300
90108	IL	Cook	Evanston	606 Birch St	3	2	\$ 400,000.00	Jul/19/1998	25	Single Family	May/25/2017	0
36527	IL	Cook	Evanston	1212 Maple St	4	3.5	\$ 550,000.00	Dec/29/2015	38	Single Family	Sep/09/2022	0
62143	IL	Cook	Evanston	789 Oak St	5	4	\$ 750,000.00	Feb/22/1983	60	Single Family	May/20/1994	350
64326	IL	Cook	Oak Park	1313 Elm St	3	2	\$ 320,000.00	Aug/02/1995	22	Single Family	Oct/05/2013	0
29224	IL	Cook	Oak Park	101 Maple Ave	3	2	\$ 350,000.00	Dec/10/1991	20	Single Family	May/25/2009	0
20302	IL	Cook	Oak Park	707 Redwood St	4	3	\$ 500,000.00	Mar/31/1979	40	Single Family	Apr/15/1996	0
40884	IL	Cook	Skokie	1414 Birch St	2	1	\$ 270,000.00	May/13/1989	28	Single Family	Jul/09/2000	0
42019	IL	Cook	Skokie	808 Spruce St	3	2	\$ 350,000.00	Oct/12/1973	30	Single Family	Jun/30/1988	0
54556	IL	Cook	Skokie	202 Pine St	4	2.5	\$ 550,000.00	Aug/07/2000	35	Single Family	Mar/27/2016	0

• Original Score: _____

• Recovered Score: _____

• Original Date: _____

• Recovered Date: _____