



- Name: _____
 - Date: _____
 - Section: _____
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BUSI 201: Business Data Analysis

Quiz #4: PivotTables and PivotCharts

INSTRUCTIONS:

- BUSI201-Q04-Workbook.xlsx is the companion workbook for this quiz.
- The workbook consists of 6 worksheets: PIVOT-01 to PIVOT-06
- The quiz booklet contains 6 problems, each corresponding to one worksheet.
- Once you are finished, save/ rename the workbook to [YOUR_LOGIN_ID.xlsx](#), and submit your results via email to BPARK@monmouthcollege.edu.
- 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. PivotTable: 15 Points

Navigate to worksheet PIVOT-01. Without editing the original data provided to you in the worksheet, insert and edit a PivotTable that matches the following figure exactly. The list below the figure is a rough guideline of items that you should pay particular attention towards, but may not be a complete list.

The screenshot shows two tables side-by-side. On the left is a raw data table with columns: Manufacturer, Item, Category, Quantity, and Unit Price. On the right is a PivotTable with columns: Category, Manufacturer, Sum of Unit Price, and Sum of Quantity. The PivotTable is filtered to show categories like Baby Care, Baking Supplies, Beverages, Breakfast Cereals, Breakfast Foods, and Candy & Sweets, along with their respective sub-items and totals.

A	B	C	D	E	F	G	H	I	J	K	L
1	Manufacturer	Item	Category	Quantity	Unit Price		Category	Manufacturer	Sum of Unit Price	Sum of Quantity	
2	Kellogg's	Corn Flakes	Breakfast Cereals	281	\$ 3.99		Baby Care	Huggies	\$ 2.99	445.00	
3	Coca-Cola	Coca-Cola Classic	Beverages	1560	\$ 1.99			Johnson & Johnson	\$ 10.27	1,181.00	
4	General Mills	Cheerios	Breakfast Cereals	258	\$ 4.49			Pampers	\$ 8.99	290.00	
5	Heinz	Ketchup	Condiments	252	\$ 2.49		Baking Supplies	Arm & Hammer	\$ 1.29	444.00	
6	Nestlé	Bottled Water	Beverages	169	\$ 0.99			Coca-Cola	\$ 1.99	1,560.00	
7	Campbell's	Tomato Soup	Canned Foods	338	\$ 1.79			Dr. Pepper	\$ 1.99	418.00	
8	Colgate	Toothpaste	Personal Care	190	\$ 2.29		Beverages	Folgers	\$ 4.99	477.00	
9	Johnson & Johnson	Baby Shampoo	Baby Care	500	\$ 3.99			Gatorade	\$ 1.79	336.00	
10	Quaker Oats	Oatmeal	Breakfast Cereals	362	\$ 3.29			Lipton	\$ 2.99	165.00	
11	Pantene	Shampoo	Personal Care	163	\$ 4.99		Breakfast Cereals	Nestlé	\$ 0.99	169.00	
12	Lipton	Green Tea Bags	Beverages	165	\$ 2.99			Pepsi	\$ 1.99	305.00	
13	Dove	Bar Soap	Personal Care	358	\$ 1.49			Starbucks	\$ 6.49	244.00	
14	Lay's	Potato Chips	Snacks	203	\$ 3.49		Breakfast Foods	Tropicana	\$ 3.49	358.00	
15	Gatorade	Sports Drink	Beverages	336	\$ 1.79			Welch's	\$ 2.99	206.00	
16	Johnsonville	Bratwurst Sausages	Meat & Poultry	390	\$ 4.99			Cheerios	\$ 4.49	402.00	
17	Pampers	Diapers	Baby Care	290	\$ 8.99		Candy & Sweets	General Mills	\$ 4.49	258.00	
18	Tide	Laundry Detergent	Household	202	\$ 5.99			Kellogg's	\$ 11.47	749.00	
19	Breyers	Ice Cream	Frozen Foods	269	\$ 4.49			Quaker Oats	\$ 3.29	362.00	
20	Tropicana	Orange Juice	Beverages	358	\$ 3.49			Nutella	\$ 6.99	435.00	
21	Nutella	Hazelnut Spread	Breakfast Foods	435	\$ 6.99						
22	Charmin	Toilet Paper	Household	375	\$ 7.99						
23	Kellogg's	Rice Krispies	Breakfast Cereals	216	\$ 3.99						
24	Duracell	AA Batteries	Electronics	240	\$ 0.99						
25	Johnson & Johnson	Baby Lotion	Baby Care	305	\$ 3.49						
26	Starbucks	Coffee	Beverages	244	\$ 6.49						
27	Kraft	Macaroni & Cheese	Pasta & Grains	146	\$ 1.79						

- Consider the order of variables in the row field.
- Consider the Value Field Settings of the value field.
- Consider the formatting of the numbers in the value field.
- Consider the Grand Totals.
- Consider the Report Layout.

Quiz #4

BUSI 201 Business Data Analysis

Problem #2. PivotTable: 15 Points

Navigate to worksheet PIVOT-02. Without editing the original data provided to you in the worksheet, insert and edit a PivotTable that matches the following figure exactly. The list below the figure is a rough guideline of items that you should pay particular attention towards, but may not be a complete list.

The screenshot shows two tables side-by-side. The left table is a raw dataset with columns: Student ID, Course, Item, Score, and Weight. The right table is a PivotTable titled "Average of Score" with columns: Student ID, Course, Item, Attendance, Homework, Midterm, Final, and Grand Total.

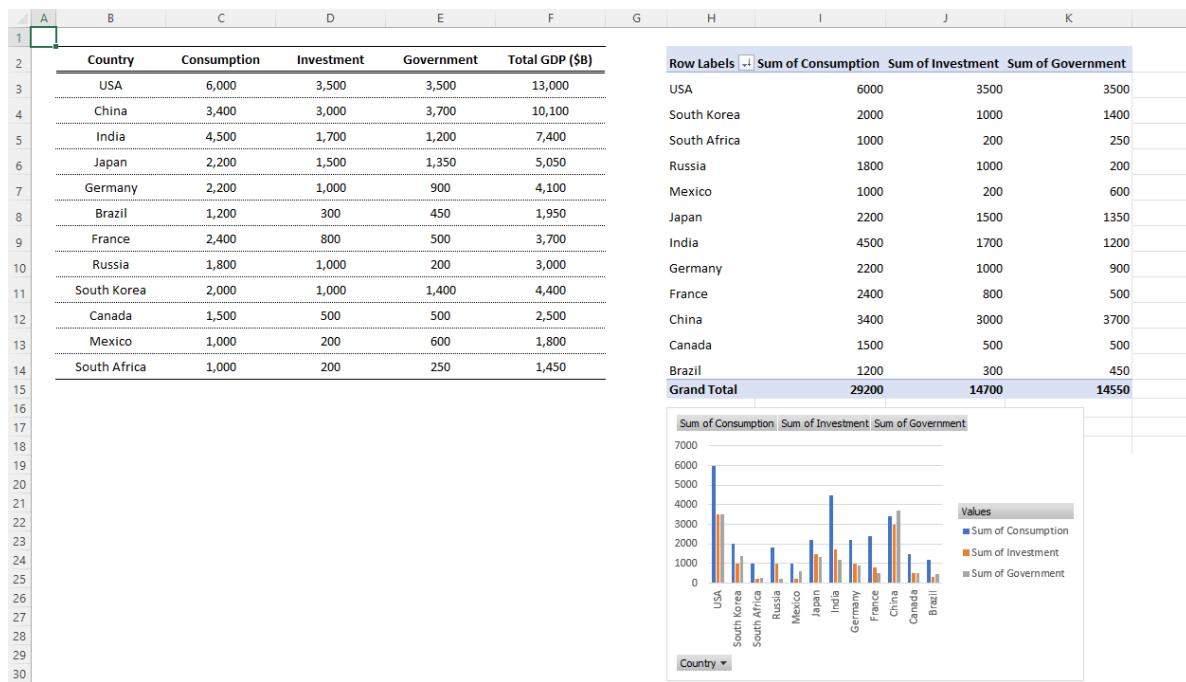
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2		Student ID	Course	Item	Score	Weight									
3		10001	BUSI 350	Attendance	48	10%									
4		10001	BUSI 350	Homework	40	20%									
5		10001	BUSI 350	Midterm	53	30%									
6		10001	BUSI 350	Final	64	40%									
7		10001	ECON 200	Attendance	77	10%									
8		10001	ECON 200	Homework	74	20%									
9		10001	ECON 200	Midterm	61	30%									
10		10001	ECON 200	Final	33	40%									
11		10001	ECON 380	Attendance	85	10%									
12		10001	ECON 380	Homework	78	20%									
13		10001	ECON 380	Midterm	70	30%									
14		10001	ECON 380	Final	68	40%									
15		10001	ECON 400	Attendance	100	10%									
16		10001	ECON 400	Homework	77	20%									
17		10001	ECON 400	Midterm	66	30%									
18		10001	ECON 400	Final	92	40%									
19		10002	BUSI 201	Attendance	31	10%									
20		10002	BUSI 201	Homework	52	20%									
21		10002	BUSI 201	Midterm	85	30%									
22		10002	BUSI 201	Final	100	40%									
23		10002	BUSI 335	Attendance	70	10%									
24		10002	BUSI 335	Homework	69	20%									
25		10002	BUSI 335	Midterm	61	30%									
26		10002	BUSI 335	Final	88	40%									
27		10002	BUSI 350	Attendance	89	10%									
28		10002	BUSI 350	Homework	54	20%									

	Average of Score	Item													
	Student ID	Course	Attendance	Homework	Midterm	Final	Grand Total								
10001	BUSI 350	47.67964321	40.44315468	53.28164148	64.37778749	51.44555671									
	ECON 200	77.45646515	74.42995946	61.11309219	32.50885571	61.37709313									
	ECON 380	84.60336003	77.50523905	69.51862037	68.23040758	74.96440676									
	ECON 400	100	76.9473497	66.00067343	91.62405868	83.64302045									
10001 Total		77.4348671	67.33142572	62.47850687	64.18527736	67.85751926									
10002	BUSI 201	31.42406537	52.38555533	84.69433177	100	67.12598812									
	BUSI 335	70.21115592	69.30830291	61.19637436	87.71824941	72.10852065									
	BUSI 350	89.42019224	54.23163148	68.04745625	100	77.92481999									
	ECON 301	77.42595766	30.91284115	58.8004971	69.78003509	59.22983275									
	ECON 380	75.74972325	62.05598979	71.97858864	65.1118263	68.724032									
	ECON 400	94.42891315	59.44121183	97.81550929	53.71230885	76.34948578									
10002 Total		73.11000127	54.72258875	73.75545957	79.38706994	70.24317988									
10003	BUSI 205	55.2445196	72.14216505	37.49032142	36.00935843	50.22159112									
	BUSI 335	89.38230047	85.71912307	47.25551086	100	80.5892336									
	BUSI 356	66.25509316	87.54398427	52.97816822	71.60464081	69.59547161									
	ECON 371	51.21809189	24.46472119	100	61.75307229	59.35897134									
10003 Total		65.52500128	67.4674984	59.43100012	67.34176788	64.94131692									
10004	BUSI 335	61.24781883	59.39840119	53.92007729	77.11182423	62.91953038									
	BUSI 356	84.28783312	59.40969438	82.59227243	69.13490841	73.85617709									
10004 Total		72.76782598	59.40404778	68.25617486	73.12336632	68.38785374									

- Consider the order of variables in the row field.
- Consider the Value Field Settings of the value field.
- Consider the blank row between each item.
- Consider the Report Layout.
- Consider the sorting order of the column variables.

Problem #3. PivotCharts: 15 Points

Navigate to worksheet PIVOT-03. Without editing the original data provided to you in the worksheet, insert and edit a PivotChart that matches the following figure exactly. Your grades will depend solely on the PivotChart for this problem, so there is no need to format the PivotTable for this problem. The list below the figure is a rough guideline of items that you should pay particular attention towards, but may not be a complete list.



- Consider the item(s) in the Axis field.
- Consider the item(s) in the Values field.

Problem #4. PivotCharts: 20 Points

Navigate to worksheet PIVOT-04. Without editing the original data provided to you in the worksheet, insert and edit a PivotTable that matches the following figure exactly. The list below the figure is a rough guideline of items that you should pay particular attention towards, but may not be a complete list.

A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Ticker	Sector	Open	High	Low	Close	Volume		Row Labels	Average of Close	Sum of Volume	
2	19-Oct-23	AAPL	Technology	\$ 176.04	\$ 177.84	\$ 175.19	\$ 175.46	55,176,703		8/1/2023 - 8/7/2023	\$ 143.09	801,718,000.00	
3	18-Oct-23	AAPL	Technology	\$ 175.58	\$ 177.58	\$ 175.11	\$ 175.84	54,764,400		AAPL	\$ 188.04	360,175,400.00	
4	17-Oct-23	AAPL	Technology	\$ 176.65	\$ 178.42	\$ 174.80	\$ 177.15	57,549,400		BAC	\$ 31.48	162,000,800.00	
5	16-Oct-23	AAPL	Technology	\$ 176.75	\$ 179.08	\$ 176.51	\$ 178.77	52,517,000		C	\$ 46.23	77,079,600.00	
6	13-Oct-23	AAPL	Technology	\$ 181.42	\$ 181.93	\$ 178.14	\$ 178.85	51,427,100		MSFT	\$ 329.68	105,796,100.00	
7	12-Oct-23	AAPL	Technology	\$ 180.07	\$ 182.34	\$ 179.04	\$ 180.71	56,743,100		PG	\$ 156.41	26,037,700.00	
8	11-Oct-23	AAPL	Technology	\$ 178.20	\$ 179.85	\$ 177.60	\$ 179.80	47,551,100		XOM	\$ 106.73	70,628,400.00	
9	10-Oct-23	AAPL	Technology	\$ 178.10	\$ 179.72	\$ 177.95	\$ 178.39	43,698,000		8/8/2023 - 8/14/2023	\$ 140.71	726,635,700.00	
10	9-Oct-23	AAPL	Technology	\$ 176.81	\$ 179.05	\$ 175.80	\$ 178.99	42,390,800		AAPL	\$ 178.64	278,552,100.00	
11	6-Oct-23	AAPL	Technology	\$ 173.80	\$ 177.99	\$ 173.18	\$ 177.49	57,224,100		BAC	\$ 31.06	171,020,100.00	
12	5-Oct-23	AAPL	Technology	\$ 173.79	\$ 175.45	\$ 172.66	\$ 174.91	48,527,900		C	\$ 44.52	70,845,400.00	
13	4-Oct-23	AAPL	Technology	\$ 171.09	\$ 174.21	\$ 170.97	\$ 173.66	53,020,300		MSFT	\$ 323.25	107,993,300.00	
14	3-Oct-23	AAPL	Technology	\$ 172.26	\$ 173.63	\$ 170.82	\$ 172.40	49,594,600		PG	\$ 156.58	21,385,300.00	
15	2-Oct-23	AAPL	Technology	\$ 171.22	\$ 174.30	\$ 170.93	\$ 173.75	52,164,500		XOM	\$ 110.23	76,839,500.00	
16	29-Sep-23	AAPL	Technology	\$ 172.02	\$ 173.07	\$ 170.34	\$ 171.21	51,814,200		8/15/2023 - 8/21/2023	\$ 138.04	742,866,200.00	
17	28-Sep-23	AAPL	Technology	\$ 169.34	\$ 172.03	\$ 167.62	\$ 170.69	56,294,400		AAPL	\$ 175.67	264,076,500.00	
18	27-Sep-23	AAPL	Technology	\$ 172.62	\$ 173.04	\$ 169.05	\$ 170.43	66,921,800		BAC	\$ 29.35	194,205,700.00	
19	26-Sep-23	AAPL	Technology	\$ 174.82	\$ 175.20	\$ 171.66	\$ 171.96	64,588,900		C	\$ 42.53	74,601,500.00	
20	25-Sep-23	AAPL	Technology	\$ 174.20	\$ 176.97	\$ 174.15	\$ 176.08	46,172,700		MSFT	\$ 319.50	107,707,200.00	
21	22-Sep-23	AAPL	Technology	\$ 174.67	\$ 177.08	\$ 174.05	\$ 174.79	56,725,400		PG	\$ 152.88	29,650,300.00	
22	21-Sep-23	AAPL	Technology	\$ 174.55	\$ 176.30	\$ 173.86	\$ 173.99	63,047,900		XOM	\$ 108.33	72,625,000.00	
23	20-Sep-23	AAPL	Technology	\$ 179.26	\$ 179.70	\$ 175.40	\$ 175.49	58,436,200		8/22/2023 - 8/28/2023	\$ 138.74	683,628,800.00	
24	19-Sep-23	AAPL	Technology	\$ 177.52	\$ 179.63	\$ 177.13	\$ 179.07	51,826,900		AAPL	\$ 178.71	245,023,100.00	
25	18-Sep-23	AAPL	Technology	\$ 176.48	\$ 179.38	\$ 176.17	\$ 177.97	67,257,600		BAC	\$ 28.55	181,536,200.00	
26	15-Sep-23	AAPL	Technology	\$ 176.48	\$ 176.50	\$ 173.82	\$ 175.01	109,205,100		C	\$ 41.15	83,327,200.00	
27	14-Sep-23	AAPL	Technology	\$ 172.00	\$ 176.10	\$ 171.58	\$ 175.74	60,894,800					

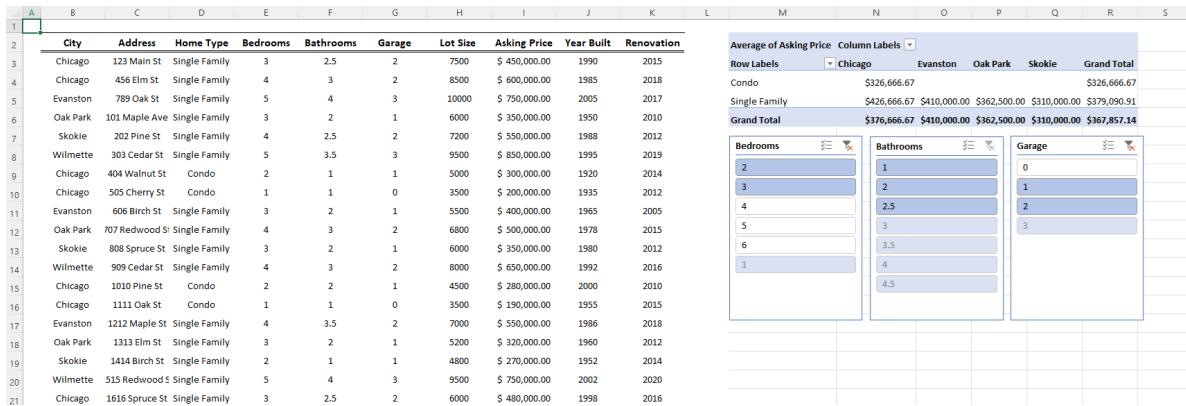
- Consider how the dates are given by weeks.
- Consider the order of the row variables.
- Consider the Value Field Settings of the value field.
- Consider the formatting of the numbers in the value field.

Quiz #4

BUSI 201 Business Data Analysis

Problem #5. PivotCharts: 20 Points

Navigate to worksheet PIVOT-05. Without editing the original data provided to you in the worksheet, insert and edit a PivotTable with Slicers that matches the following figure exactly. The list below the figure is a rough guideline of items that you should pay particular attention towards, but may not be a complete list.



- Consider the Value Field Settings of the value field.
- Consider the formatting of the numbers in the value field.
- Consider which variables are used to create the Slicers.
- Consider the which values the Slicers are filtering.
- Consider the formatting of the numbers in the value field.

Problem #6. PivotCharts: 15 Points

Navigate to worksheet PIVOT-06, which is a duplicate of PIVOT-05. Without editing the original data provided to you in the worksheet, insert and edit two PivotTables with a single Slicer that matches the following figure exactly. The list below the figure is a rough guideline of items that you should pay particular attention towards, but may not be a complete list.

Average of Asking Price Column Labels: Chicago Evanston Oak Park Skokie Wilmette Grand Total

Row Labels	Chicago	Evanston	Oak Park	Skokie	Wilmette	Grand Total
2			300000	270000		285000
3	426666.6667	410000	383333.3333	350000		400000
4	575000	550000	500000	530000	650000	554444.4444
5		750000			800000	783333.3333
6				800000		800000
Grand Total	486000	534000	390000	442000	762500	512916.6667

Average of Asking Price Column Labels: Chicago Evanston Oak Park Skokie Wilmette Grand Total

Row Labels	Chicago	Evanston	Oak Park	Skokie	Wilmette	Grand Total
1		400000	323333.3333	310000		331666.6667
2	486000	506666.6667	490000	530000	650000	512142.8571
3		750000			800000	787500
Grand Total	486000	534000	390000	442000	762500	512916.6667

- The Slicer must be able to filter both PivotTables.
- Consider the Value Field Settings of the value field.
- Consider the formatting of the numbers in the value field.
- Consider which variable is used to create the Slicers.
- Consider the formatting of the numbers in the value field.

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