

QUESTION 1: DAY 1

- What is the total sales for each product?

Answer:

SUM					
=SUMIF(A2:A7,A2,D2:D7)					
	A	B	C	D	E
1	Product	Category	Quarter	Sales(\$)	
2	Product A	Electronics	Q1	20,000	
3	Product B	Clothing	Q1	15,000	
4	Product C	Home Goods	Q1	12,000	
5	Product A	Electronics	Q2	22,000	
6	Product B	Clothing	Q2	18,000	
7	Product C	Home Goods	Q2	14,000	
8					
9	Product A	=SUMIF(A2:A7,A2,D2:D7)			
10	Product B	33000			
11	Product C	26000			
12					
13					
14					

QUESTION 2: DAY 2

- What is the total sales for each category?

Answer:

SUM		:	<div><div>✖</div><div>✔</div><div><i>f_x</i></div></div>	=SUMIF(B2:B10,B2,D2:D10)	
	A	B	C	D	E
1	Product	Category	Quarter	Sales(\$)	
2	Product A	Electronics	Q1	20,000	
3	Product B	Clothing	Q1	15,000	
4	Product C	Home Goods	Q1	12,000	
5	Product A	Electronics	Q2	22,000	
6	Product B	Clothing	Q2	18,000	
7	Product C	Home Goods	Q2	14,000	
8	Product A	Electronics	Q1	8,000	
9	Product B	Clothing	Q2	10,000	
10	Product C	Home Goods	Q3	7,500	
11					
12					
13	Electronics	=SUMIF(B2:B10,B2,D2:D10)			
14	Clothing	43000			
15	Home Goods	33500			
16					

QUESTION 3: DAY 3

- What is the total sales for each product in each quarter?

Answer:

F6					
	A	B	C	D	E
1	Date	Product	Category	Quarter	Sales(\$)
2	1/1/2023	Product A	Electronics	Q1	20000
3	1/5/2023	Product B	Clothing	Q1	15000
4	1/10/2023	Product C	Home Goods	Q1	12000
5	2/3/2023	Product A	Electronics	Q2	22000
6	2/7/2023	Product B	Clothing	Q2	18000
7	2/12/2023	Product C	Home Goods	Q2	14000
8	1/1/2023	Product A	Electronics	Q1	8000
9	1/5/2023	Product B	Clothing	Q2	10000
10	1/10/2023	Product C	Home Goods	Q3	7500
11					
12					
13	Sum of Sales(\$)				
14	Row Labels	Product A	Product B	Product C	Grand Total
15	Q1	\$ 28,000	\$ 15,000	\$ 12,000	\$ 55,000
16	Q2	\$ 22,000	\$ 28,000	\$ 14,000	\$ 64,000
17	Q3			\$ 7,500	\$ 7,500
18	Grand Total	\$ 50,000	\$ 43,000	\$ 33,500	\$ 126,500
19					

QUESTION 4: DAY 4

- How do the total sales compare between different years? Show the total sales by year.

Answer:

The screenshot shows an Excel spreadsheet with a PivotTable summarizing sales data. The PivotTable is located in the range G2:H4. The PivotTable Fields task pane is open on the right side of the screen.

Row Labels	Sum of Sales(\$)
2022	75000
2023	126500
Grand Total	201500

The PivotTable Fields task pane shows the following configuration:

- Choose fields to add to report:** Date, Product, Category, Quarter, Sales(\$).
- Drag fields between areas below:**
 - Filters:** None
 - Columns:** None
 - Rows:** Years (Date)
 - Σ Values:** Sum of Sales(\$)
- Defer Layout Update:** Unchecked
- Update:** Button

QUESTION 5: DAY 5

- What's the total revenue from Electronics from the Northern Region?

Answer:

The screenshot shows an Excel spreadsheet with a data table. The formula bar at the top displays the formula `=SUBTOTAL(9,[Revenue])` in cell F22. The data table is located in the range A1:F18.

	A	B	C	D	E	F
	Date	Day of Week	Region	Product Category	Units Sold	Revenue
1	1/1/2024	Weekday	North	Electronics	100	\$500
2	1/5/2024	Weekday	North	Electronics	90	\$450
6	1/9/2024	Weekday	North	Electronics	100	\$500
10	1/13/2024	Weekend	North	Electronics	90	\$450
14	1/17/2024	Weekday	North	Electronics	100	\$500
18						
22						\$2,400

QUESTION 6: DAY 8

- What's the contribution of Electronics to the company's total revenue?

Answer:

H3 : ✕ ✓ <i>f_x</i> =SUMIF(Table7[Product Category],H2,Table7[Revenue])/E\$22									
	A	B	C	D	E	F	G	H	I
1	Date	Region	Product Category	Units sold	Revenue				
2	1/1/2024	North	Electronics	100	\$500		Product:	Electronics	
3	1/2/2024	South	Apparel	150	\$750		% of Total:	51%	
4	1/3/2024	East	Electronics	120	\$600				
5	1/4/2024	West	Apparel	80	\$400				
6	1/5/2024	North	Electronics	90	\$450				
7	1/6/2024	South	Apparel	110	\$550				
8	1/7/2024	East	Electronics	130	\$650				
9	1/8/2024	West	Apparel	70	\$350				
10	1/9/2024	North	Electronics	100	\$500				
11	1/10/2024	South	Apparel	150	\$750				
12	1/11/2024	East	Electronics	120	\$600				
13	1/12/2024	West	Apparel	80	\$400				
14	1/13/2024	North	Electronics	90	\$450				
15	1/14/2024	South	Apparel	110	\$550				
16	1/15/2024	East	Electronics	130	\$650				
17	1/16/2024	West	Apparel	70	\$350				
18	1/17/2024	North	Electronics	100	\$500				
19	1/18/2024	South	Apparel	150	\$750				
20	1/19/2024	East	Electronics	120	\$600				
21	1/20/2024	West	Apparel	80	\$400				
22					\$10,750				

QUESTION 7: DAY 9

- In the transaction table, there is a product column that matches the product column in the Product table. Use VLOOKUP to populate the corresponding category IDs from the product table into the Transaction table based on the matching values (Product Names)

Answer:

Clipboard Font Alignment Number Styles

E2 : =VLOOKUP([@[Product Name]],Product,3,0)

	A	B	C	D	E	F	G	H	I
1	Transaction ID	Product Name	Quantity	Price	Category_id				
2	201	Smartphone	2	1500	1				
3	202	Laptop	1	2000	1				
4	203	T-shirt	3	20	2				
5	204	Dress	1	50	2				
6	205	Microwave Oven	1	1200	3				
7	206	Vacuum Cleaner	2	800	3				
8	207	Fiction Book	5	15	4				
9	208	Tennis Racket	1	100	5				
10	209	Lipstick	3	10	6				
11	210	Doll	2	30	7				
12	211	Blender	1	50	3				
13	212	Kitchen Knife Set	1	80	8				
14	213	Sofa	1	500	9				
15	214	Notebook	4	5	10				
16	215	Pen	10	2	10				
17	216	Puzzle	3	15	7				
18	217	Mixer	1	100	8				
19	218	Bed	1	600	9				
20	219	Smartphone	1	1500	1				
21	220	Action Figure	2	25	7				
22	221	Kitchen Knife Set	1	80	8				

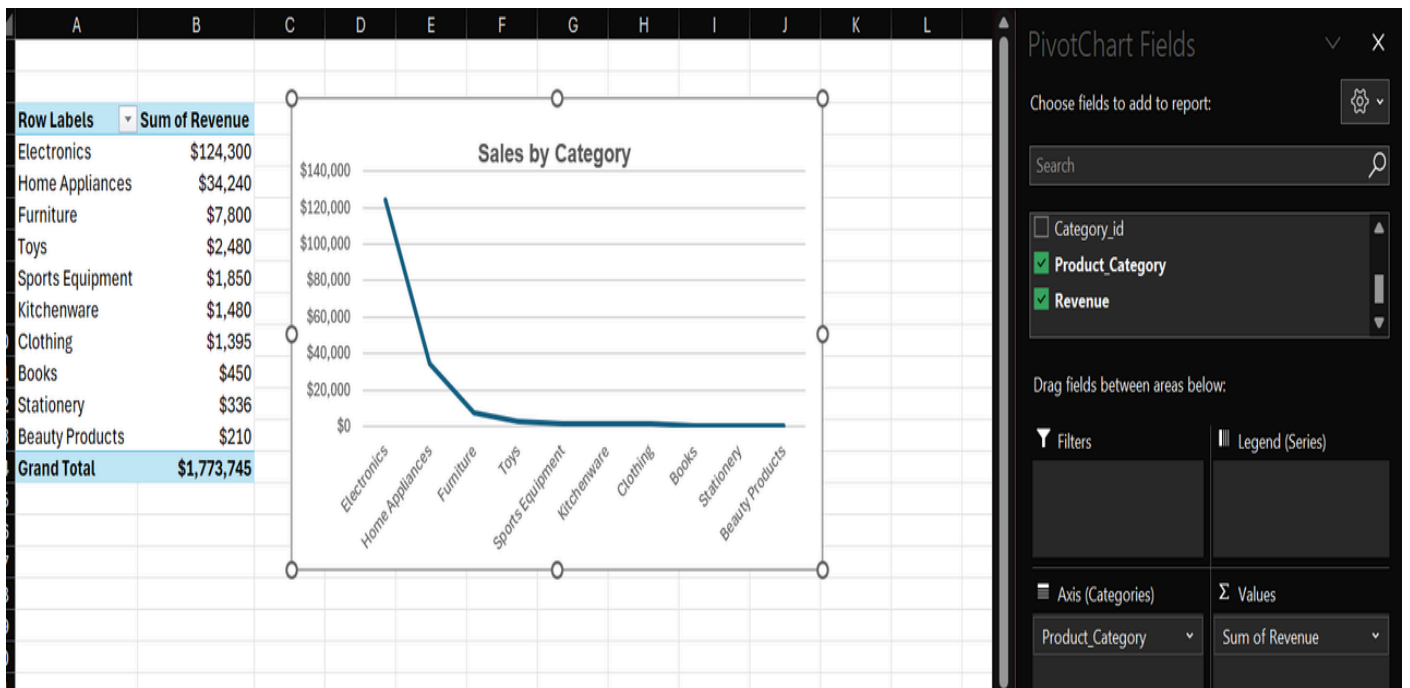
First, I named each of the tables with the specific name on the sheets. Then I rearranged the product table to make the product name the first column on the table array before inputting my formula

Product Table Product Table Transaction Table

QUESTION 8: DAY 10

- In the category table, there is a category name column. Use VLOOKUP to bring the category name column into the transaction table. Then open a pivot table, create a revenue field using the calculated field and build a table to show revenue by category name. Finally, create a corresponding chart.

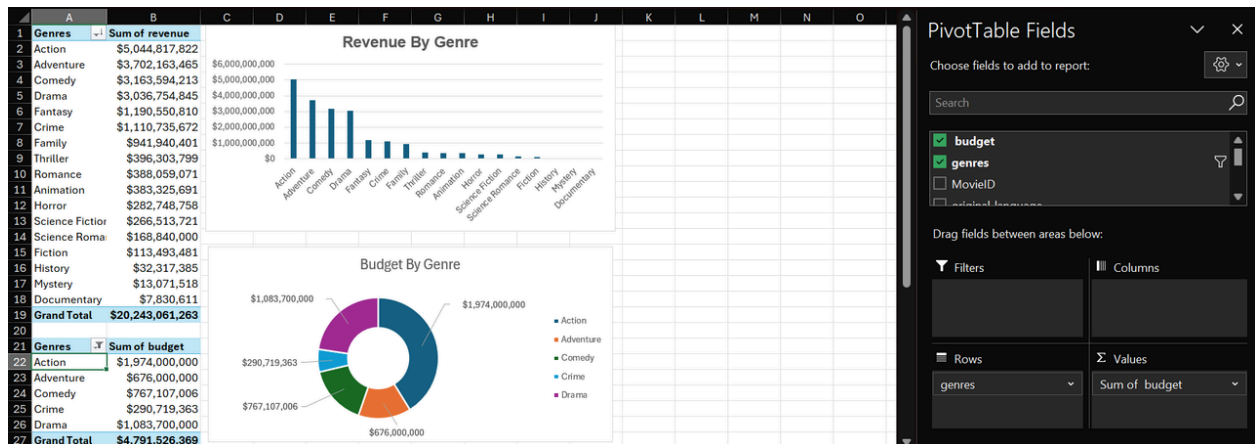
Answer:



QUESTION 9: DAY 11

- Using the Movie data, create two tables on the same sheet to show:
 - The Total Revenue by Genres
 - Budget by Genres
 - Build a clustered column with the revenue by genres
 - Build a Donut chart with budget by genres

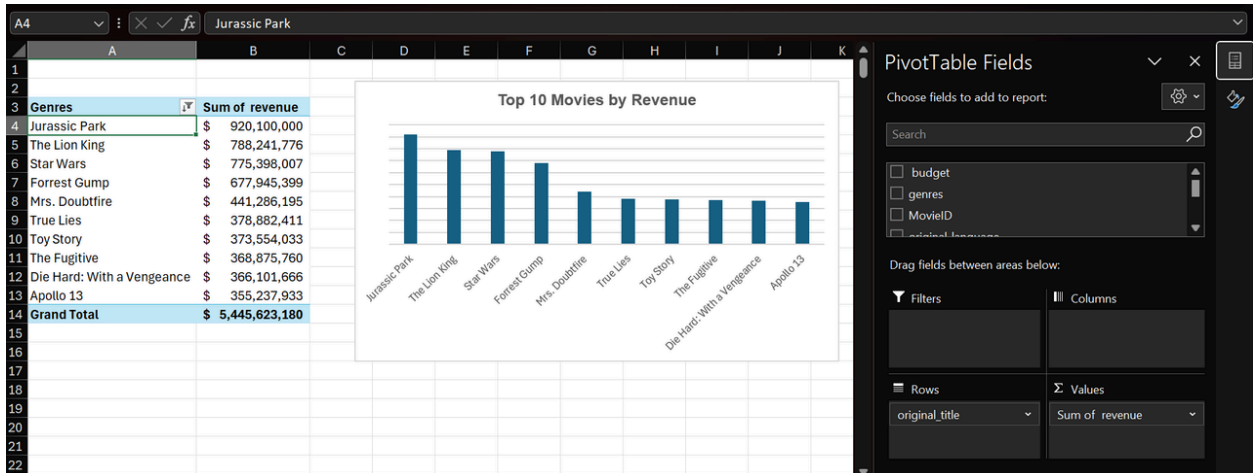
Answer:



QUESTION 10: DAY 12

- Using the Movie data, the leadership of the company would like to see the top 10 movies contributing to the business.

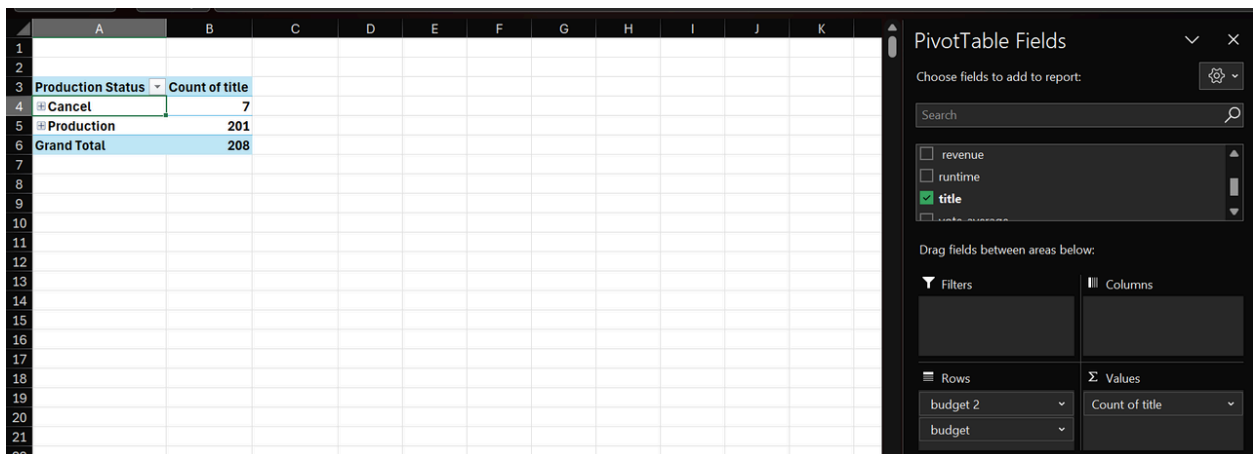
Answer:



QUESTION 11: DAY 15

- The production company wants to eliminate the movies with a budget greater than 80 million dollars. As the Analyst, the company wants you to help them check how many movies will be cancelled and how many will be going into production. Show the result using a pivot table.

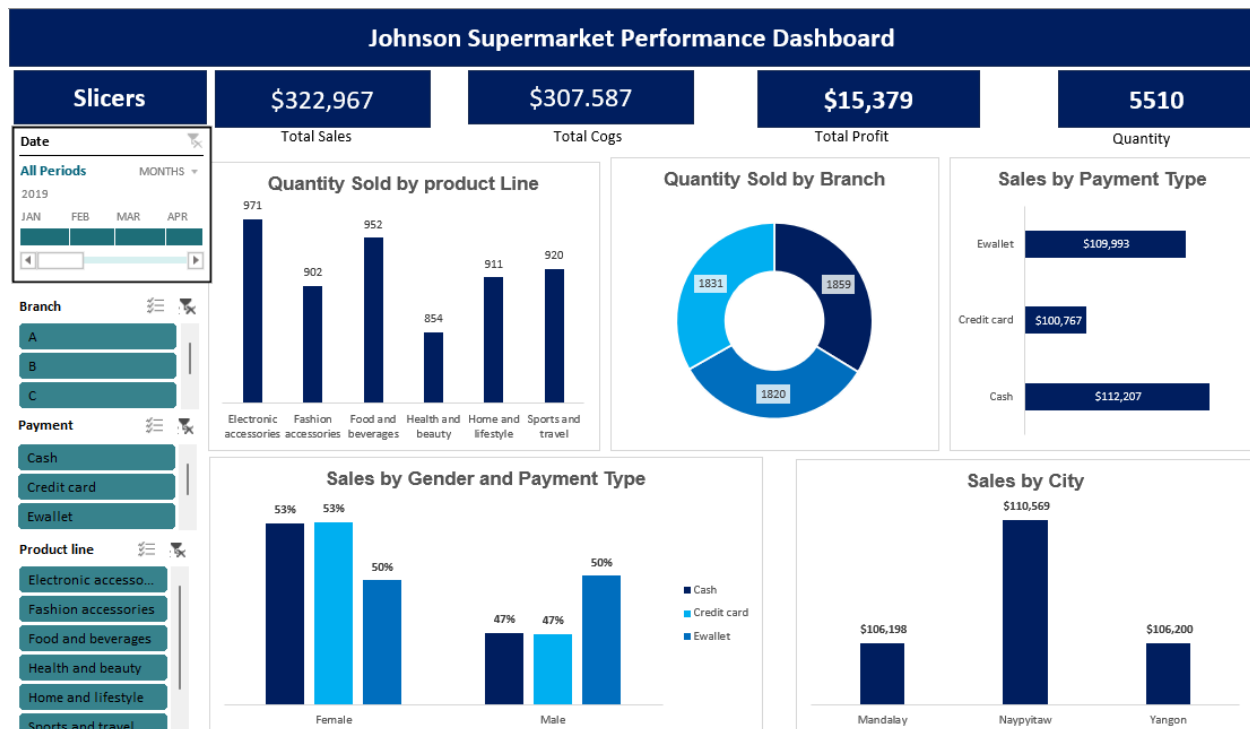
Answer:



QUESTION 12: DAY 16

- Use the Supermarket data shared with you to create the dashboard as shown below with the following metrics;
 1. Total Sales
 2. Quantity Sold by Product Line
 3. Total Cogs
 4. Quantity Sold by Branch
 5. Total Profit
 6. Sales by City
 7. Sales by Gender & Payment Type
 8. Sales by Payment Type

Answer:



QUESTION 13: DAY 17

- Using the same dashboard you created for question 12, use the filter to show all the metrics for Branch B.

Answer:

Johnson Supermarket Performance Dashboard

Slicers

\$106,198

\$101,141

\$5,057

1820

Total Sales

Total Cogs

Total Profit

Quantity

Date

All Periods

2019

JAN

FEB

MAR

APR

MAY

JUN

JUL

MONTHS

Branch

A

B

C

Payment

Cash

Credit card

Ewallet

Product line

Electronic accessories

Fashion accessories

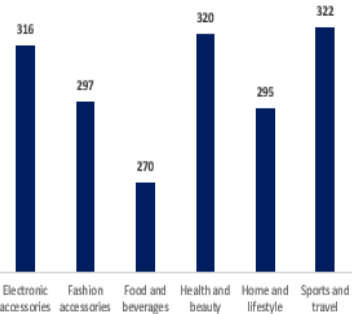
Food and beverages

Health and beauty

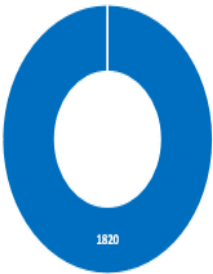
Home and lifestyle

Sports and travel

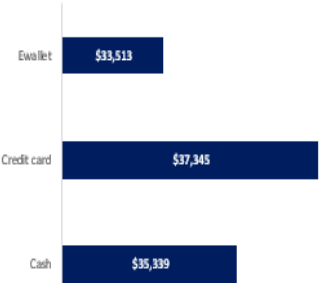
Quantity Sold by Product line



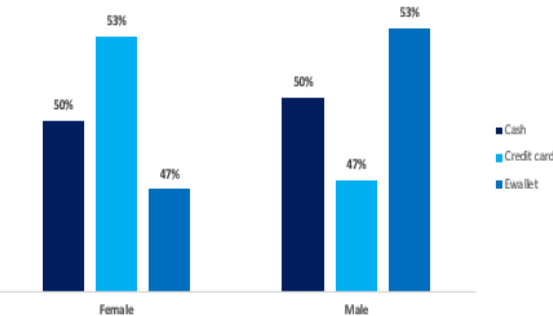
Quantity Sold by Branch



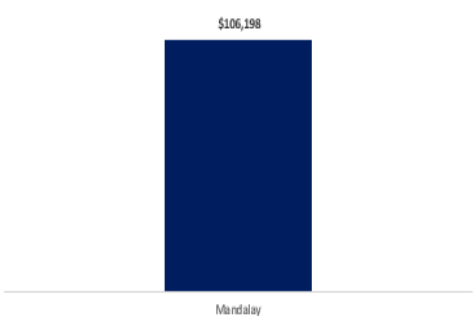
Sales by Payment Type



Sales by Gender and Payment Type



Sales by City




QUESTION 14: DAY 18


- Using the same dataset. Which of the product lines contributes the least to the company's sales? Show the percentage for all the product lines and highlight the one with the lowest contribution.

Answer:

Product line	% Contribution
Electronic accessories	16.82%
Fashion accessories	16.81%
Food and beverages	17.38%
Health and beauty	15.23%
Home and lifestyle	16.68%
Sports and travel	17.07%
Grand Total	100.00%

PivotTable Fields







Choose fields to add to report: 


Search 

☐ cogs

☐ Profit

Drag fields between areas below:

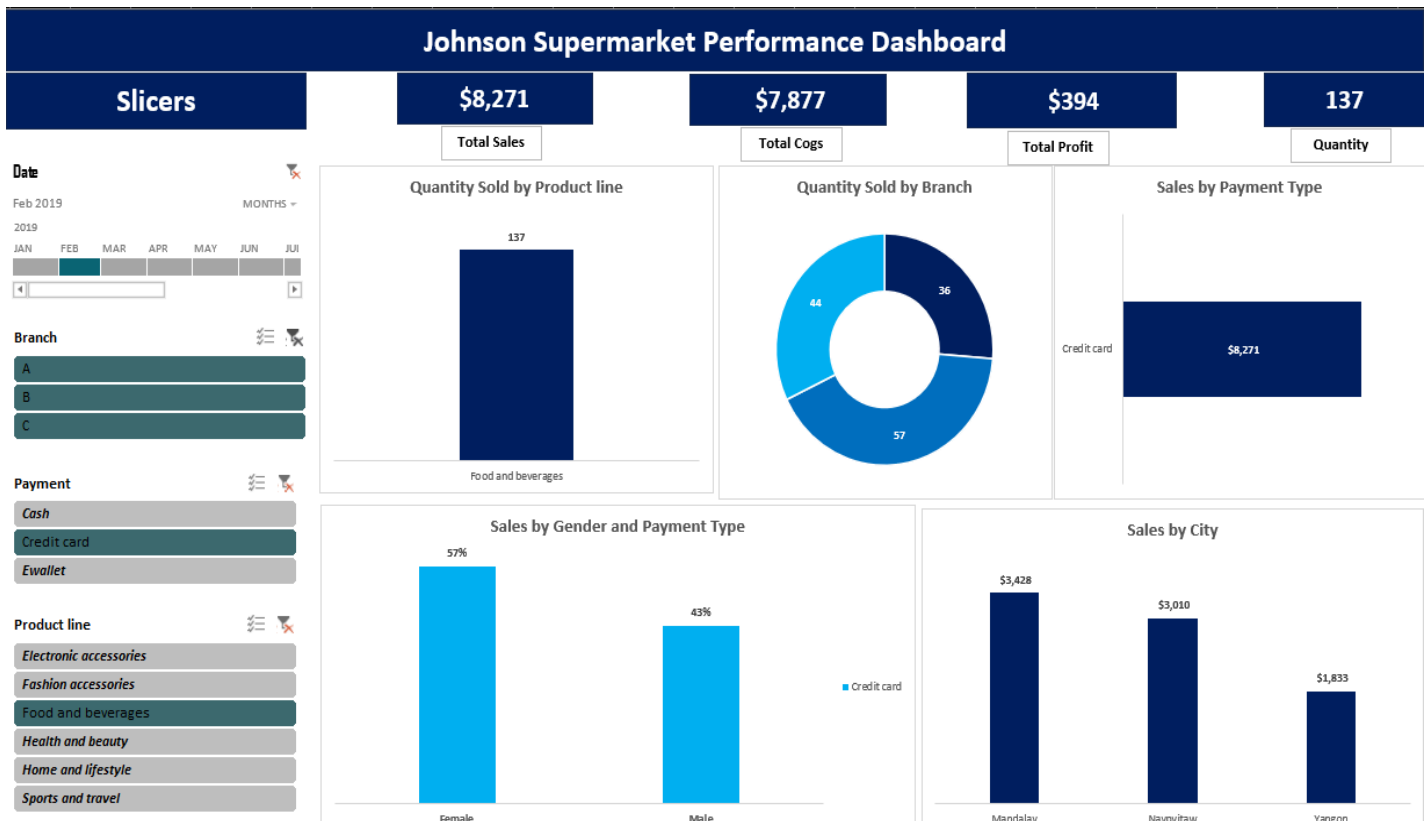
<p> Filters</p> <div></div>	<p> Columns</p> <div></div>
<p> Rows</p> <p>Product line </p>	<p> Values</p> <p>% Contribution </p>

☐ Defer Layout Update 

QUESTION 15: DAY 19

- Using the same dashboard you created for question 12. Use the filter to show all the metrics for February, Credit Card Payments and Food and Beverages.

Answer:



QUESTION 15: DAY 22

- Using Power Query, create a column to add "Days to Payment" and "Revenue" to the data and change the column name accordingly. Once completed, screenshot the top 20 data on the sheet and send it as your output.

Answer:

	Payment Date	Days to Payment	Region	Product	Unit Price	Unit Sold	Revenue
1	1/1/2022	1/24/2022	23 North	Pressing Iron	500.00	100	50,000.00
2	2/2/2022	2/12/2022	10 South	Bathing Robe	750.00	150	112,500.00
3	1/3/2022	1/27/2022	24 East	Bathing Robe	600.00	120	72,000.00
4	2/4/2022	2/13/2022	9 West	Bathing Robe	450.00	90	40,500.00
5	5/5/2022	6/1/2022	27 North	Bathing Robe	700.00	140	98,000.00
6	5/6/2022	6/15/2022	40 South	Bathing Robe	550.00	110	60,500.00
7	1/7/2022	1/28/2022	21 East	Bathing Robe	400.00	80	32,000.00
8	7/8/2022	8/24/2022	47 West	Bathing Robe	650.00	130	84,500.00
9	1/9/2023	2/18/2023	40 North	Bathing Robe	600.00	120	72,000.00
10	1/10/2022	2/10/2022	31 South	Bathing Robe	500.00	100	50,000.00
11	4/11/2022	5/28/2022	47 East	Pressing Iron	750.00	150	112,500.00
12	5/12/2023	6/21/2023	40 West	Pressing Iron	550.00	110	60,500.00
13	7/13/2023	8/13/2023	31 North	Bathing Robe	700.00	140	98,000.00
14	12/14/2023	1/5/2024	22 South	Pressing Iron	400.00	80	32,000.00
15	8/15/2023	9/4/2023	20 East	Pressing Iron	650.00	130	84,500.00
16	8/16/2023	9/16/2023	31 West	Bathing Robe	600.00	120	72,000.00
17	9/17/2023	10/16/2023	29 North	Pressing Iron	500.00	100	50,000.00
18	10/18/2023	11/20/2024	399 South	Laptop Bag	750.00	150	112,500.00
19	10/19/2023	11/19/2023	31 East	HP Laptop	600.00	120	72,000.00
20	12/20/2023	1/22/2024	33 West	HP Laptop	450.00	90	40,500.00
21	12/1/2023	12/30/2024	395 North	Laptop Bag	700.00	140	98,000.00

QUESTION 17: DAY 23

- Clean up Kohl data shared with you and append it to the Retailers data in the Power Query editor window. Once completed, show the total revenue by Region

Answer:

The screenshot shows an Excel spreadsheet with a PivotTable and the PivotTable Fields task pane.

PivotTable Data:

Region	Total Revenue
East	\$310,500
North	\$292,500
South	\$166,500
West	\$226,000
Grand Total	\$995,500

PivotTable Fields Task Pane Configuration:

- Choose fields to add to report:** Search bar, ☐ Contact Person
- Drag fields between areas below:**
- Filters:** Retailer
- Columns:** (Empty)
- Rows:** Region
- Σ Values:** Total Revenue
- ☐ Defer Layout Update
- Update** button

QUESTION 18: DAY 24

- From the Power Query window, create a Revenue Status column using the IF statement within the query window to show any revenue greater than or equal to 90,000 as "High Revenue" and the revenue below 90,000 as "Low Revenue".

Answer:

The screenshot displays the Power Query Editor interface. At the top, the formula bar shows the query name and a step: `= Table.RemoveColumns("#Added Conditional Column1",{"Revenue Status"})`. Below this is a table with the following columns: Days to Pay, Region, Product, Unit Price, Unit Sold, Revenue, and Revenue_Status. The table contains 9 rows of data. A dialog box titled "Add Conditional Column" is open in the foreground. It prompts the user to "Add a conditional column that is computed from the other columns or values." The "New column name" field is set to "Revenue". The "Column Name" dropdown is set to "Revenue". The "Operator" dropdown is set to "is greater than or...". The "Value" field is set to "90000". The "Output" dropdown is set to "High Revenue". There is an "Add Clause" button. Below the "If" clause, there is an "Else" section with a dropdown set to "Low Revenue".

	Days to Pay	Region	Product	Unit Price	Unit Sold	Revenue	Revenue_Status
1	12:00:00 AM	23 North	Pressing Iron	500.00	100	50,000.00	Low Revenue
2	12:00:00 AM	10 South	Bathing Robe	750.00	150	112,500.00	High Revenue
3	12:00:00 AM	24 East	Bathing Robe	600.00	120	72,000.00	Low Revenue
4	12:00:00 AM	9 West	Bathing Robe	450.00	90	40,500.00	Low Revenue
5	12:00:00 AM	27 North	Bathing Robe	700.00	140	98,000.00	High Revenue
6	12:00:00 AM	40 South	Bathing Robe	550.00	110	60,500.00	Low Revenue
7	12:00:00 AM	21 East	Bathing Robe	400.00	80	32,000.00	Low Revenue
8	12:00:00 AM	47 West	Bathing Robe	650.00	130	84,500.00	Low Revenue
9	12:00:00 AM	40 North	Bathing Robe	600.00	120	72,000.00	Low Revenue

Add Conditional Column

Add a conditional column that is computed from the other columns or values.

New column name:

Column Name: Operator: Value: Then: ...

Else:

PREVIEW DOWNLOADED AT 4:07 PM

QUESTION 19: DAY 25

- Use the new data created to show how many products have High Revenue and how many have Low Revenue. Remember to show your pivot field area in your output.

Answer:

The screenshot displays an Excel interface with three main components:

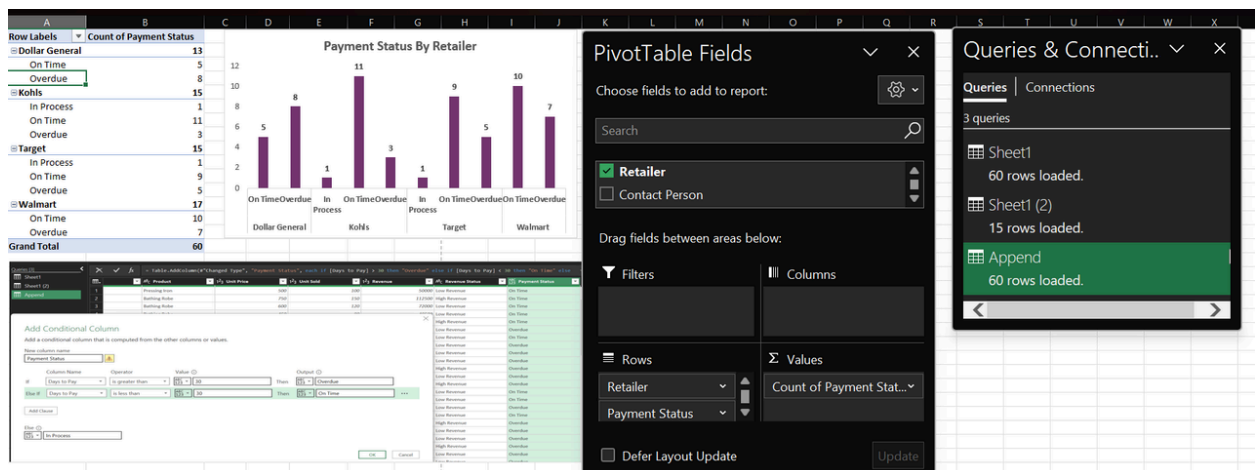
- PivotTable:** A PivotTable with 'Revenue Status' as the row field and 'Count of Product' as the value field. The data is as follows:

Revenue Status	Count of Product
High Revenue	18
Low Revenue	42
Grand Total	60
- PivotTable Fields:** A task pane showing the fields to add to the report. 'Revenue Status' is checked and placed in the Rows area. 'Count of Product' is placed in the Values area. The 'Defer Layout Update' checkbox is unchecked.
- Queries & Connections:** A task pane showing three queries: 'Sheet1' (60 rows loaded), 'Sheet1 (2)' (15 rows loaded), and 'Append' (60 rows loaded). The 'Append' query is highlighted in green.

QUESTION 20: DAY 26

- Using the Retailers data. From the Power Query editor, write a logic with the conditions below to add a "Payment Status" column to the table. 1. If payment is after 30 days then it's "Overdue" 2. If payment is before 30 days, then it's "On Time" 3. Otherwise, it's "In Process" Once added, show a pivot table and graph to display the retailers' payment status.

Answer:



QUESTION 21: DAY 29

- Using the new data shared with you, use the Data Table What If Analysis to show how we arrived at the Net profits listed in the second table below; if we sell at those selling prices.

Answer:

Input			Net profit	
Unit Sold		\$10,000	Selling Price	\$159,880
Selling Price Per Unit		\$98	\$56	-\$260,120
Production Cost Per Unit		\$60	\$60	-\$220,120
Payroll		\$100,000	\$98	\$159,880
Lease		\$120,000	\$100	\$179,880
Utility		\$120	\$105	\$229,880
			\$110	\$279,880
			\$115	\$329,880
			\$120	\$379,880
			\$125	\$429,880
			\$130	\$479,880
			\$135	\$529,880
			\$140	\$579,880

Profit & Loss Calculations		
Revenue		\$980,000
Cogs		\$600,000
Gross Profit		\$380,000
Fixed Cost		\$220,120
Net Profit		\$159,880

Data Table
 ?
×

Row input cell:

Column input cell:

OK
 Cancel

QUESTION 22: DAY 30

- Using the new data shared with you, use the Data Table to find the net profit this company will be making if they sell the quantities in the row section of the table below and at the prices listed in the column section.

Answer:

Input	
Unit Sold	10000
Selling Price Per Unit	\$98
Production Cost Per Unit	\$60
Payroll	\$100,000
Lease	\$120,000
Utility	\$120

Profit & Loss Calculations	
Revenue	\$980,000
Cogs	\$600,000
Gross Profit	\$380,000
Fixed Cost	\$220,120
Net Profit	\$159,880

Net profit	
Selling Price	\$159,880
\$56	-\$260,120
\$60	-\$220,120
\$98	\$83,880
\$100	\$99,880
\$105	\$139,880
\$110	\$179,880
\$115	\$219,880
\$120	\$259,880
\$125	\$299,880
\$130	\$339,880
\$135	\$379,880
\$140	\$419,880

	\$159,880	8,000	10,000	11,000	12,000
\$56	-\$252,120	-\$260,120	-\$264,120	-\$268,120	-\$272,120
\$60	-\$220,120	-\$220,120	-\$220,120	-\$220,120	-\$220,120
\$98	\$83,880	\$159,880	\$197,880	\$235,880	\$273,880
\$100	\$99,880	\$179,880	\$219,880	\$259,880	\$299,880
\$105	\$139,880	\$229,880	\$274,880	\$319,880	\$364,880
\$110	\$179,880	\$279,880	\$329,880	\$379,880	\$429,880
\$115	\$219,880	\$329,880	\$384,880	\$439,880	\$489,880
\$120	\$259,880	\$379,880	\$439,880	\$499,880	\$559,880
\$125	\$299,880	\$429,880	\$494,880	\$559,880	\$619,880
\$130	\$339,880	\$479,880	\$549,880	\$619,880	\$679,880
\$135	\$379,880	\$529,880	\$604,880	\$679,880	\$739,880
\$140	\$419,880	\$579,880	\$659,880	\$739,880	\$799,880

After 30 days of active contribution and participation during the challenge, I finished Top10 and I was handed a certificate of completion by Techavilly.



Certificate of Completion

This certificate is proudly awarded to

Glory Oghojafor

Congratulations on your performance during the 30 Days Excel Challenge. We appreciate your active participation and contribution.

February 19 - March 19 2024




Techavilly