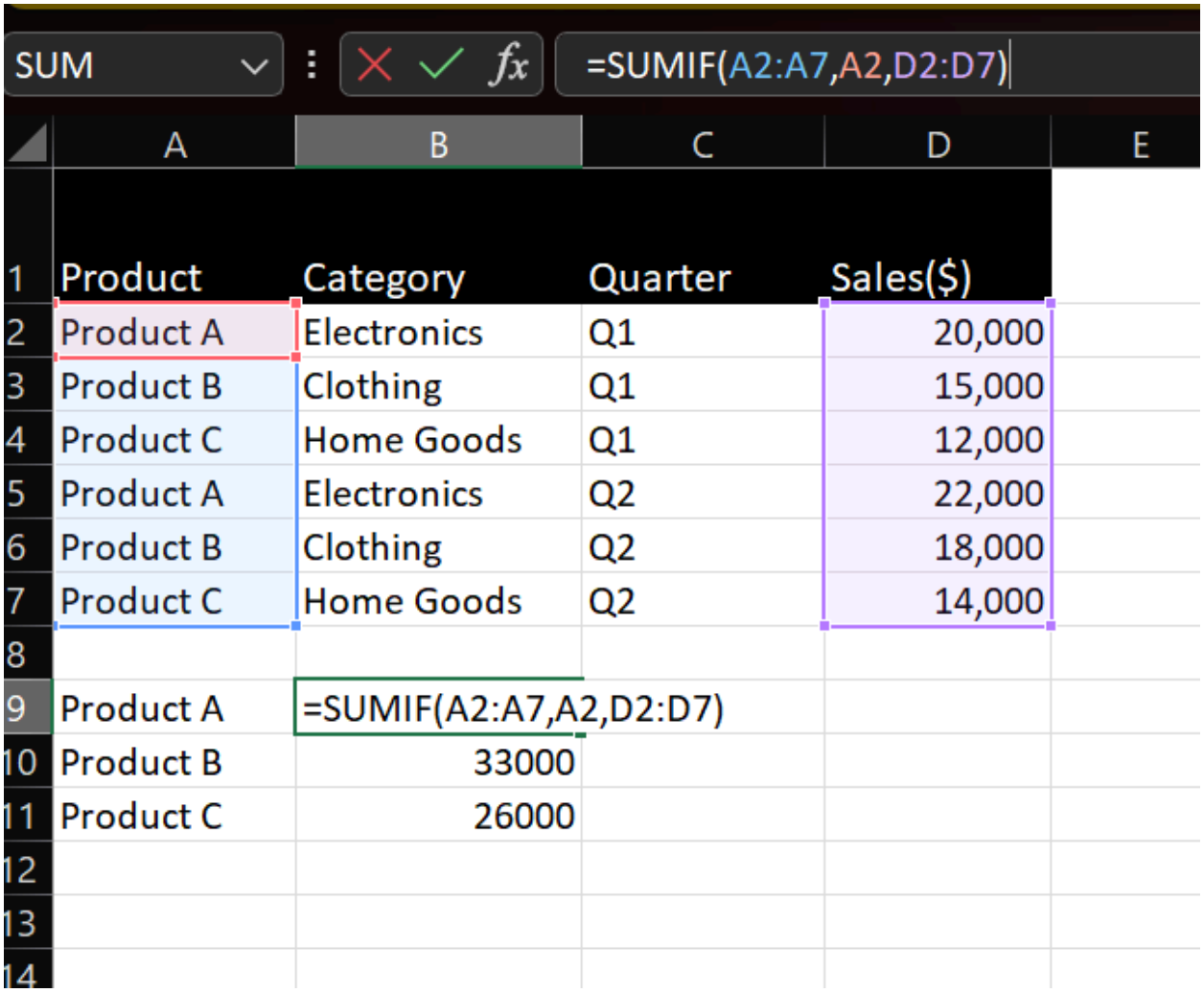
QUESTION 1: DAY 1

- What is the total sales for each product?

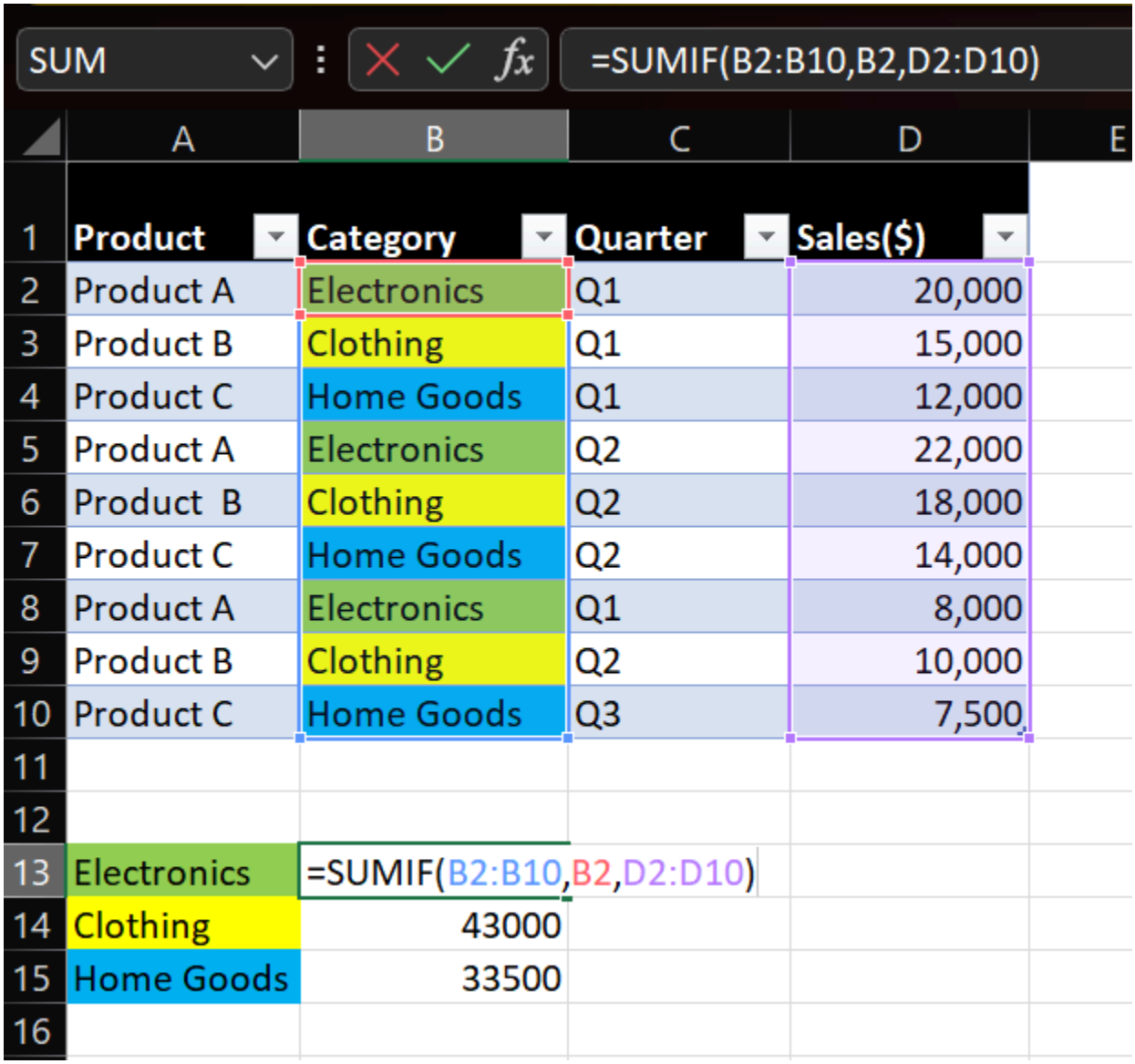
Answer:



QUESTION 2: DAY 2

- What is the total sales for each category?

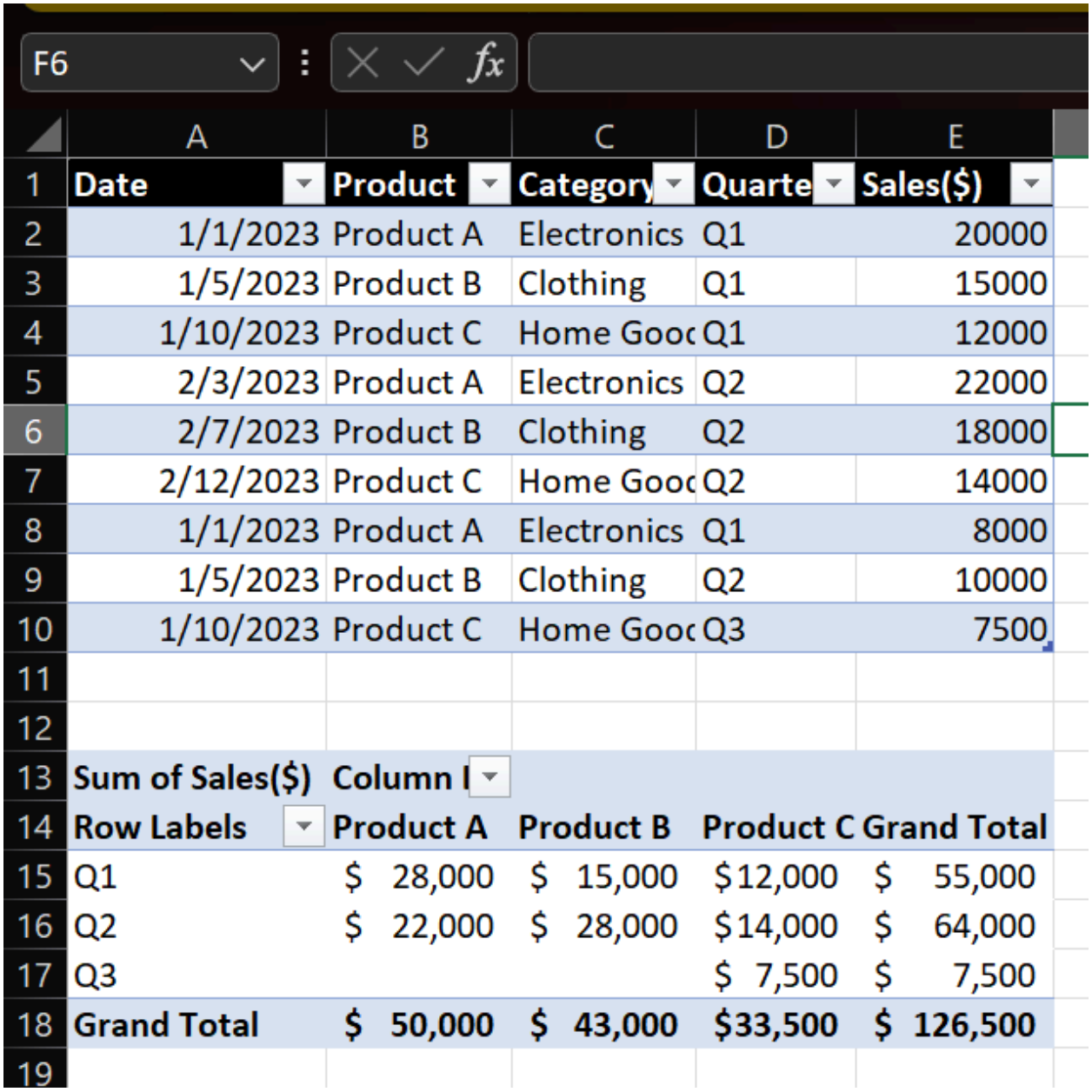
Answer:



QUESTION 3: DAY 3

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

Answer:



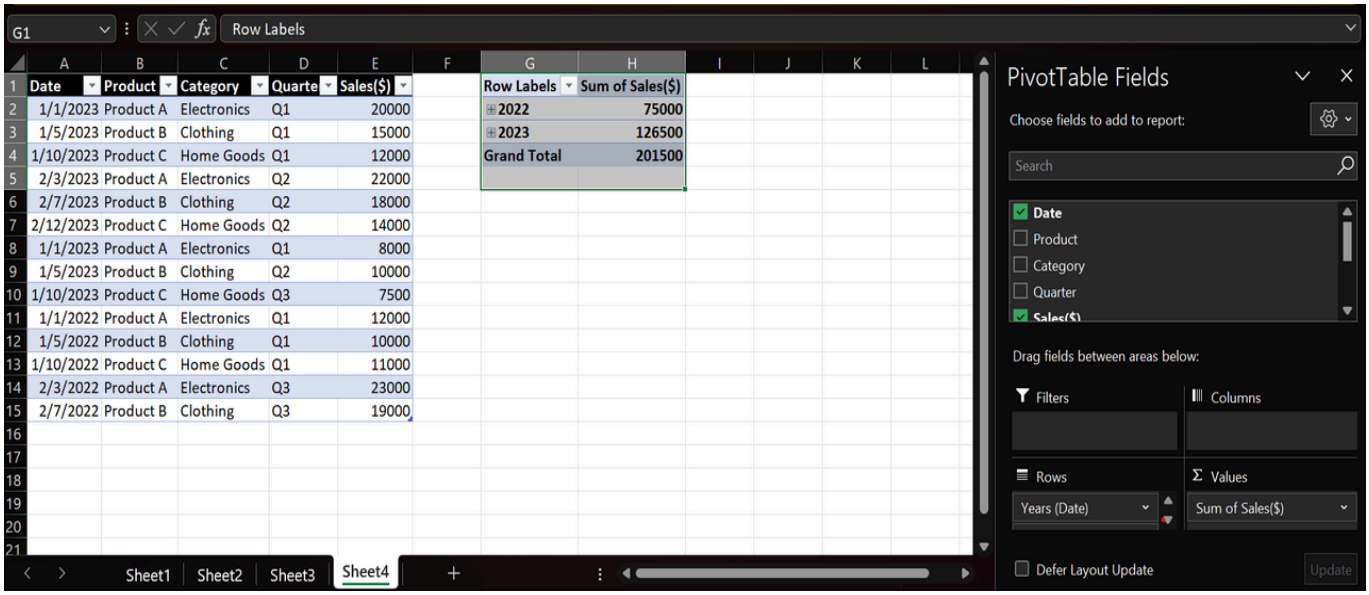
Date	Product	Category	Quarte	Sales($)
1/1/2023	Product A	Electronics	Q1	20000
1/5/2023	Product B	Clothing	Q1	15000
1/10/2023	Product C	Home Gooc	Q1	12000
2/3/2023	Product A	Electronics	Q2	22000
2/7/2023	Product B	Clothing	Q2	18000
2/12/2023	Product C	Home Gooc	Q2	14000
1/1/2023	Product A	Electronics	Q1	8000
1/5/2023	Product B	Clothing	Q2	10000
1/10/2023	Product C	Home Gooc	Q3	7500

Sum of Sales($)	Column I			
Row Labels	Product A	Product B	Product C	Grand Total
Q1	$ 28,000	$ 15,000	$12,000	$ 55,000
Q2	$ 22,000	$ 28,000	$14,000	$ 64,000
Q3			$ 7,500	$ 7,500
Grand Total	**$ 50,000**	**$ 43,000**	**$33,500**	**$ 126,500**

QUESTION 4: DAY 4

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

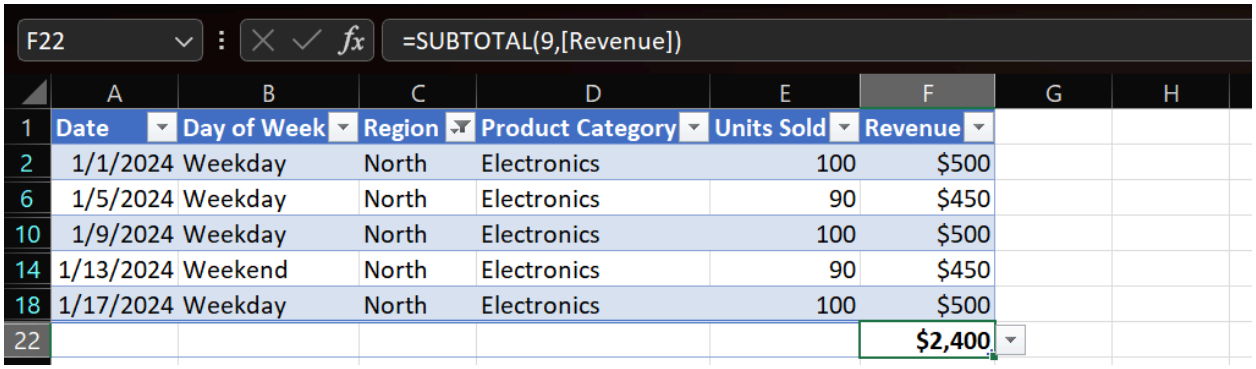
Answer:



QUESTION 5: DAY 5

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

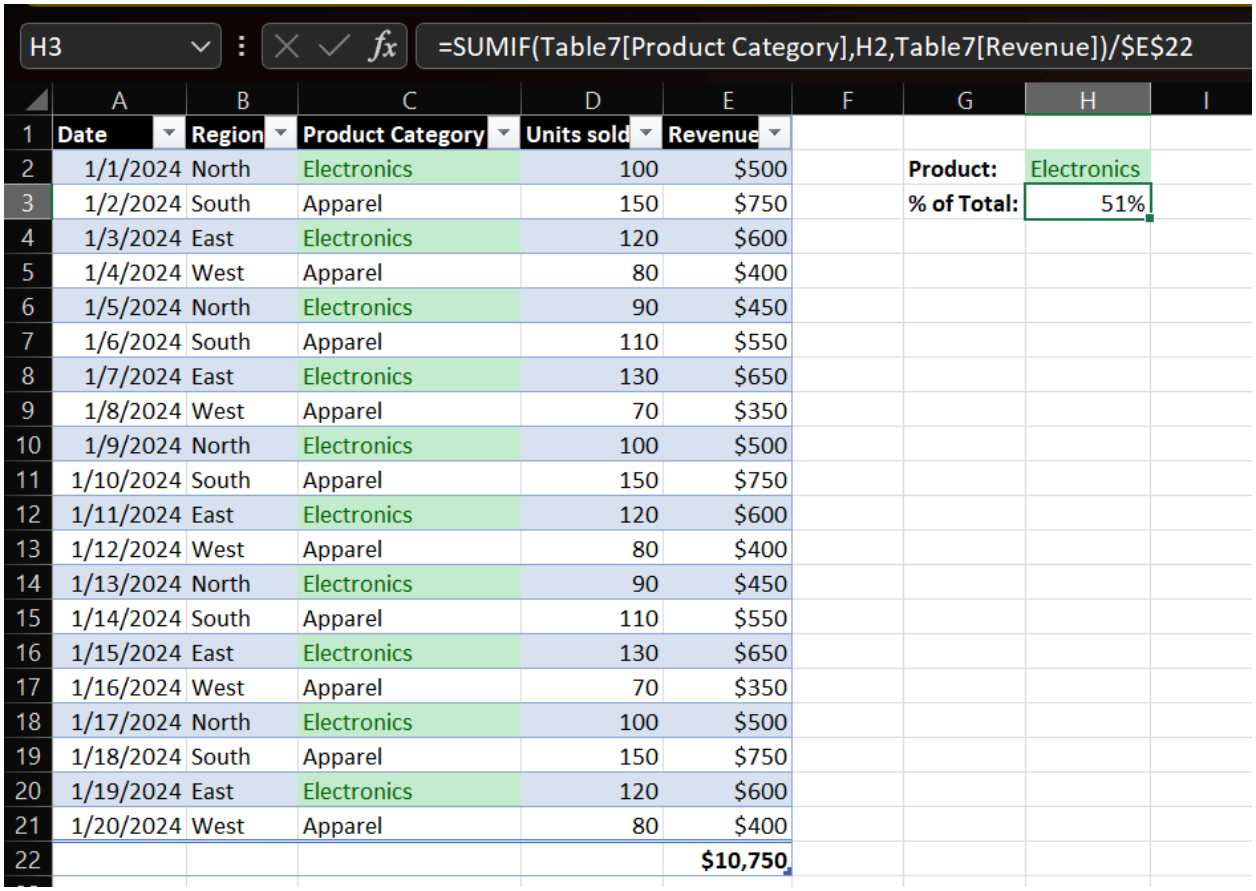
Answer:



QUESTION 6: DAY 8

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

Answer:

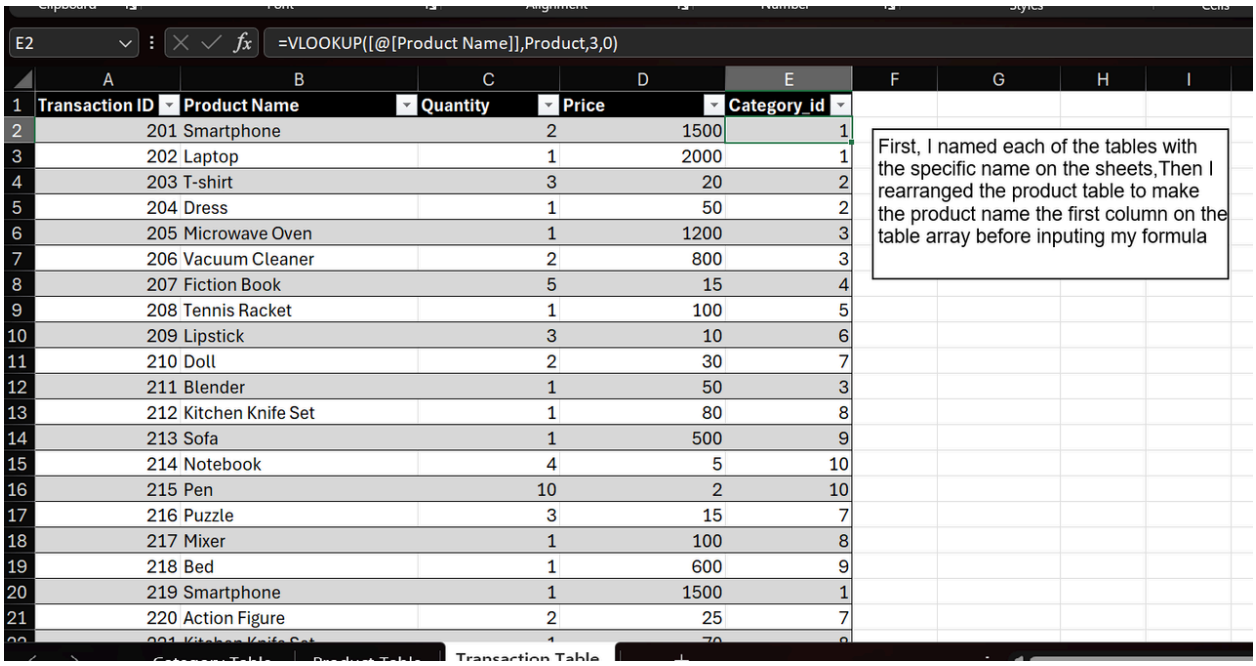


	A	B	C	D	E	F	G	H	I
1	Date	Region	Product Category	Units sold	Revenue				
2	1/1/2024	North	Electronics	100	$500		Product:	Electronics	
3	1/2/2024	South	Apparel	150	$750		% of Total:	51%	
4	1/3/2024	East	Electronics	120	$600				
5	1/4/2024	West	Apparel	80	$400				
6	1/5/2024	North	Electronics	90	$450				
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:

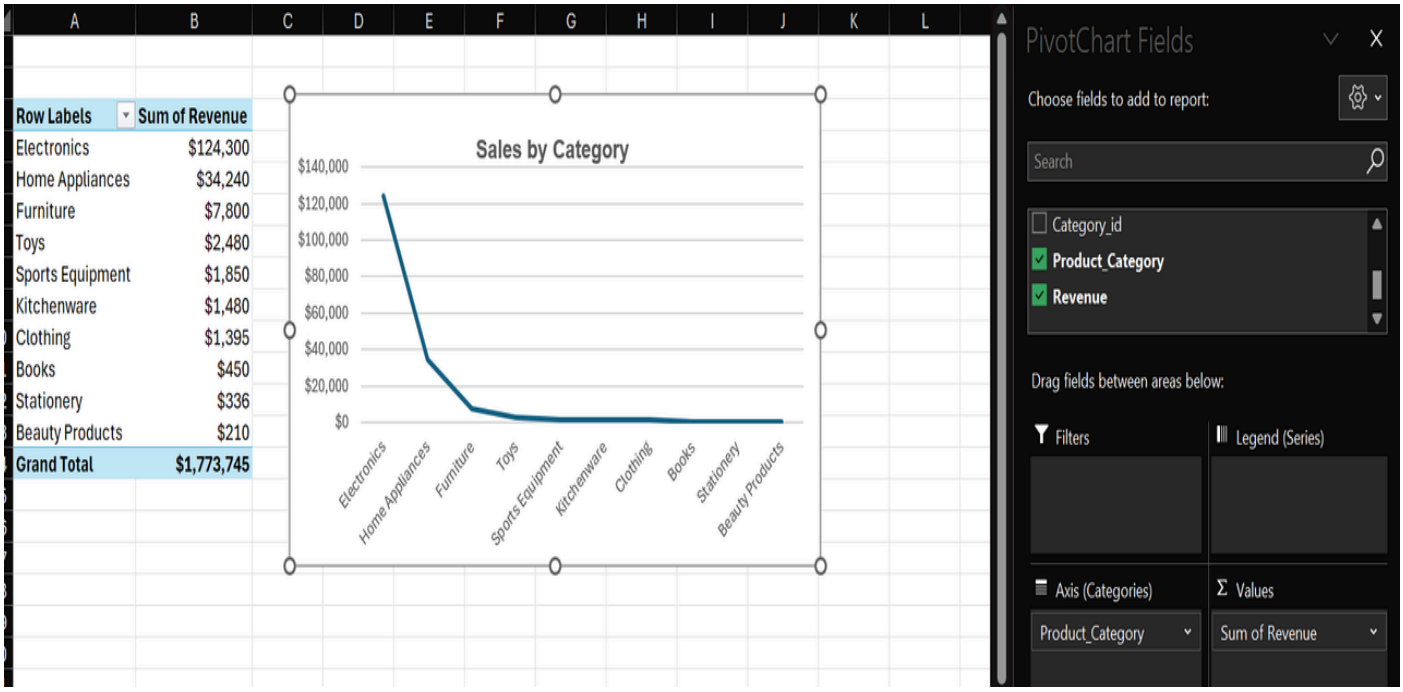


Transaction ID	Product Name	Quantity	Price	Category_id
201	Smartphone	2	1500	1
202	Laptop	1	2000	1
203	T-shirt	3	20	2
204	Dress	1	50	2
205	Microwave Oven	1	1200	3
206	Vacuum Cleaner	2	800	3
207	Fiction Book	5	15	4
208	Tennis Racket	1	100	5
209	Lipstick	3	10	6
210	Doll	2	30	7
211	Blender	1	50	3
212	Kitchen Knife Set	1	80	8
213	Sofa	1	500	9
214	Notebook	4	5	10
215	Pen	10	2	10
216	Puzzle	3	15	7
217	Mixer	1	100	8
218	Bed	1	600	9
219	Smartphone	1	1500	1
220	Action Figure	2	25	7

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.

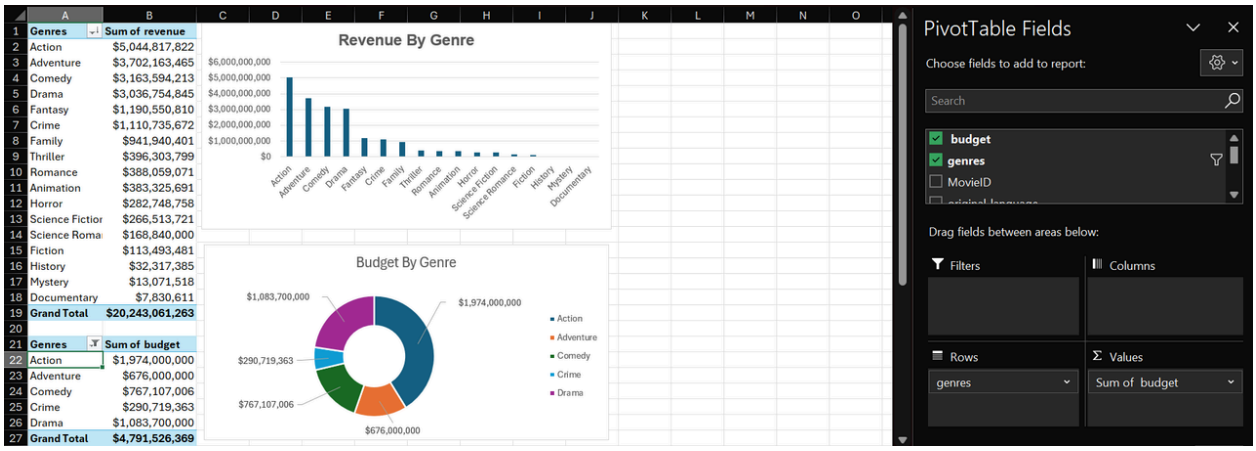
Answer:



QUESTION 9: DAY 11

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

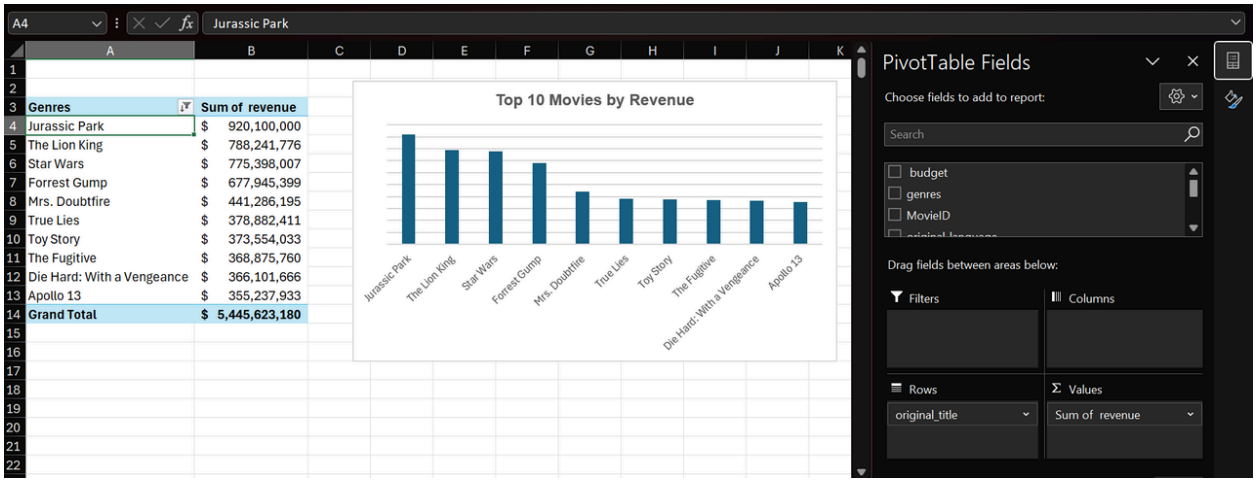
Answer:



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.

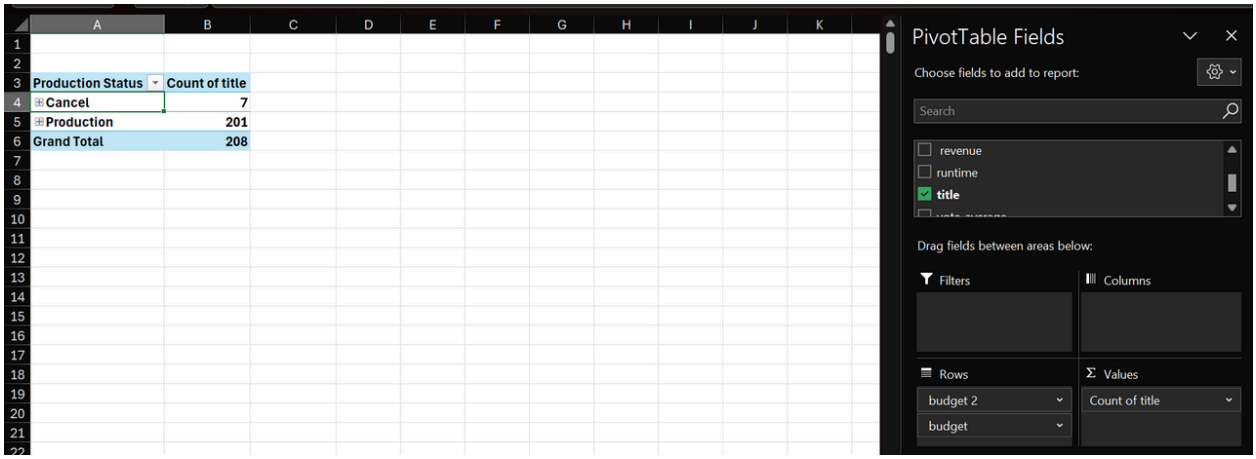
Answer:



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.

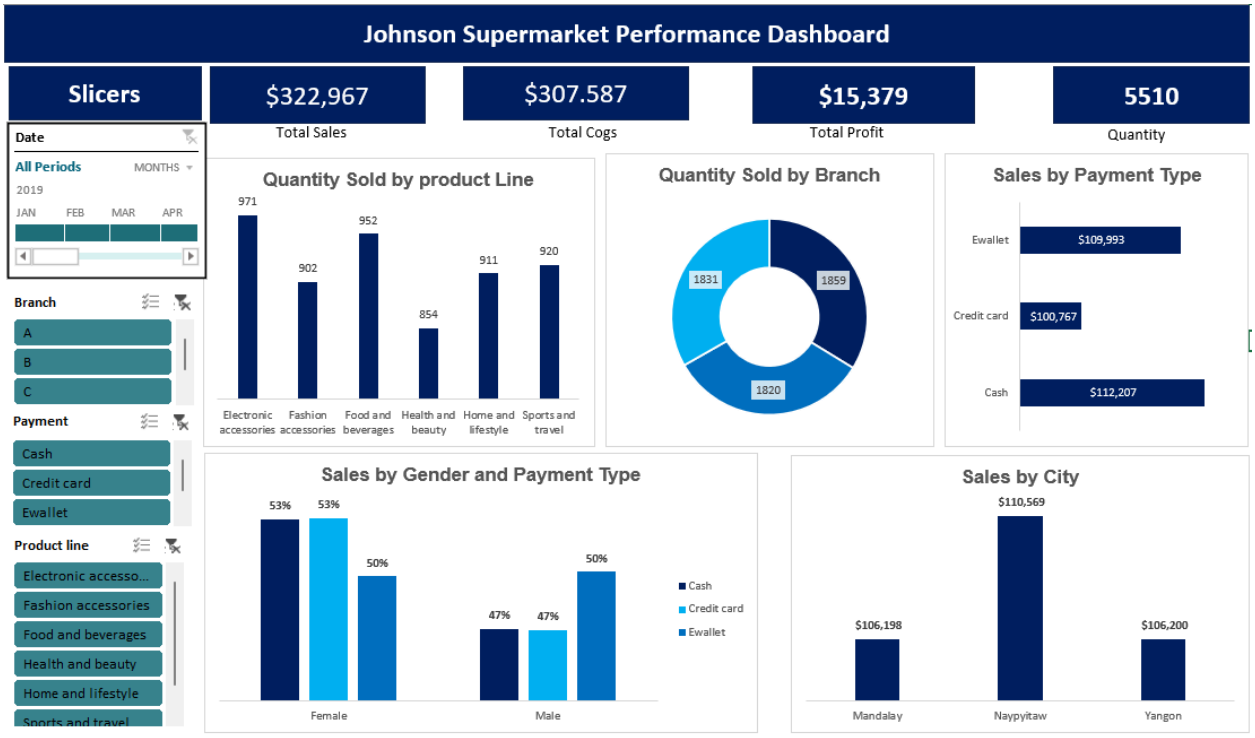
Answer:



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
    2. Total Cogs 4. Quantity Sold by Branch
    3. Total Profit 6. Sales by City
    4. Sales by Gender & 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 MONTHS

2019

JAN FEB MAR APR MAY JUN JL

Branch

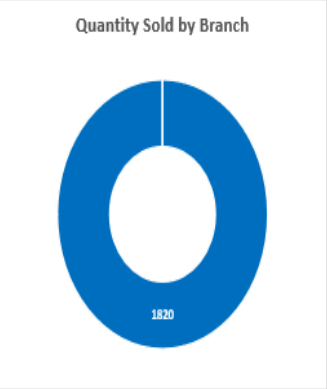
A
B
C

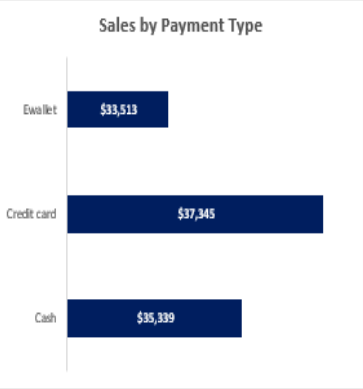
Payment

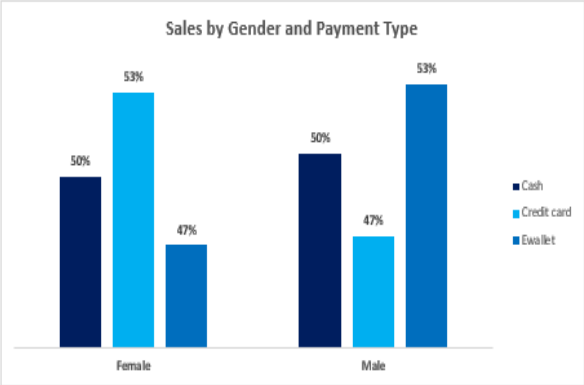
Cash
Credit card
Ewallet

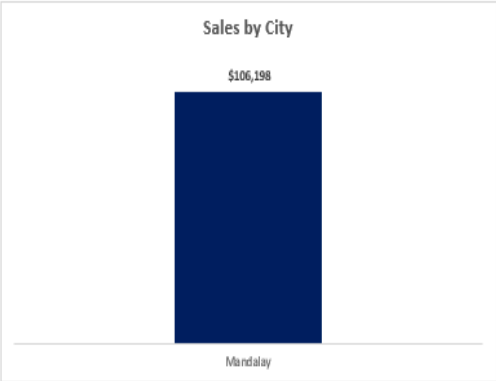
Product line

Electronic accessories
Fashion accessories
Food and beverages
Health and beauty
Home and lifestyle
Sports and travel





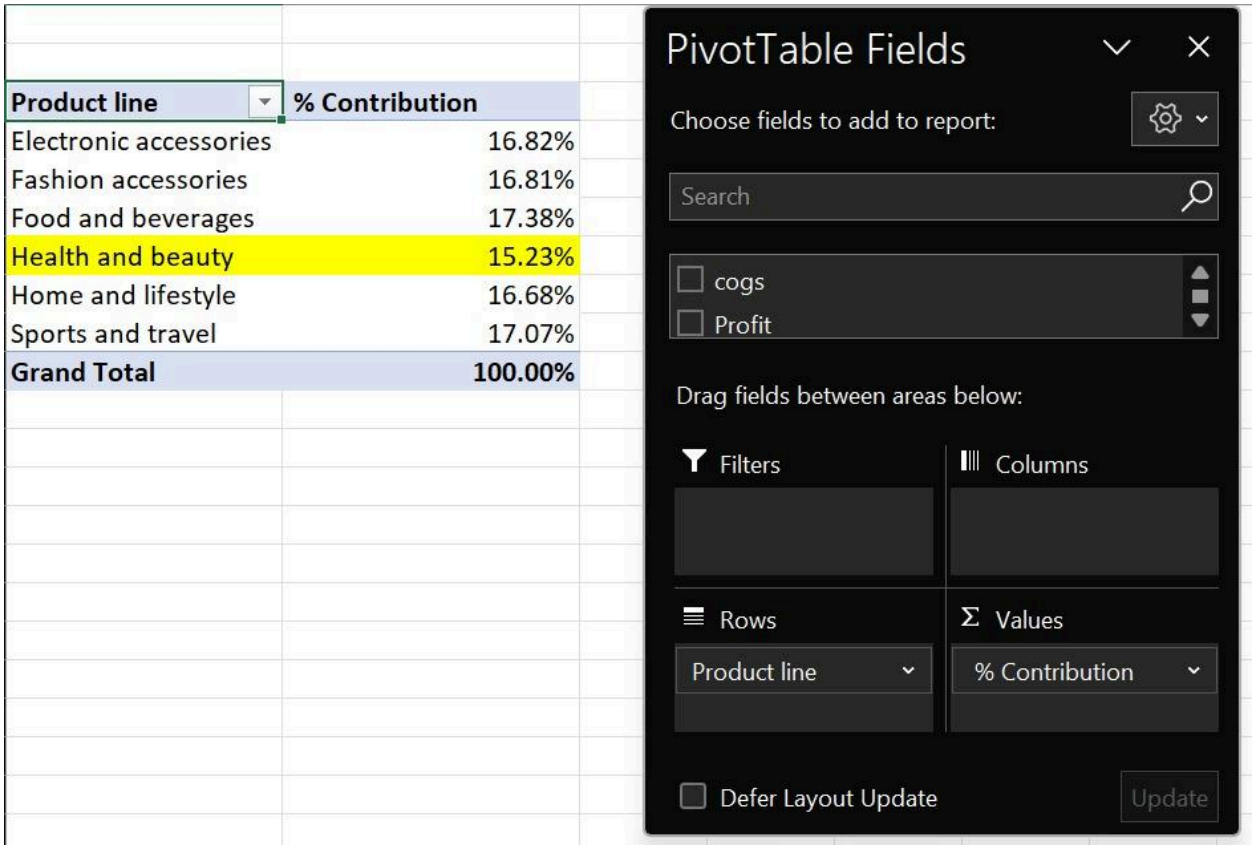




QUESTION 14: DAY 18

- 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:

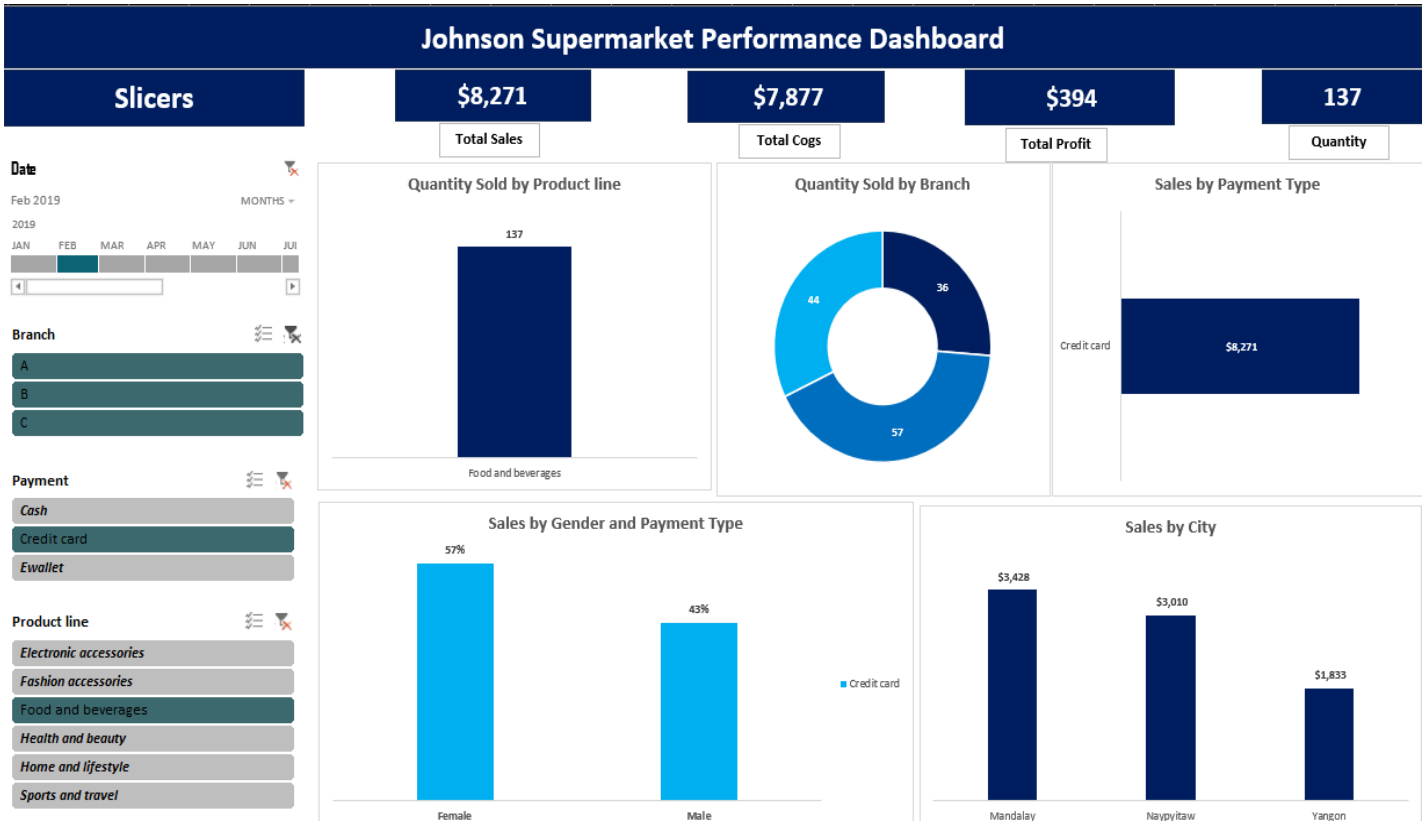


Product line	% Contribution
Electronic accessories	16.82%
Fashion accessories	16.81%
Food and beverages	17.38%
Health and beauty	15.23%
Home and lifestyle	16.68%
Sports and travel	17.07%
Grand Total	**100.00%**

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.

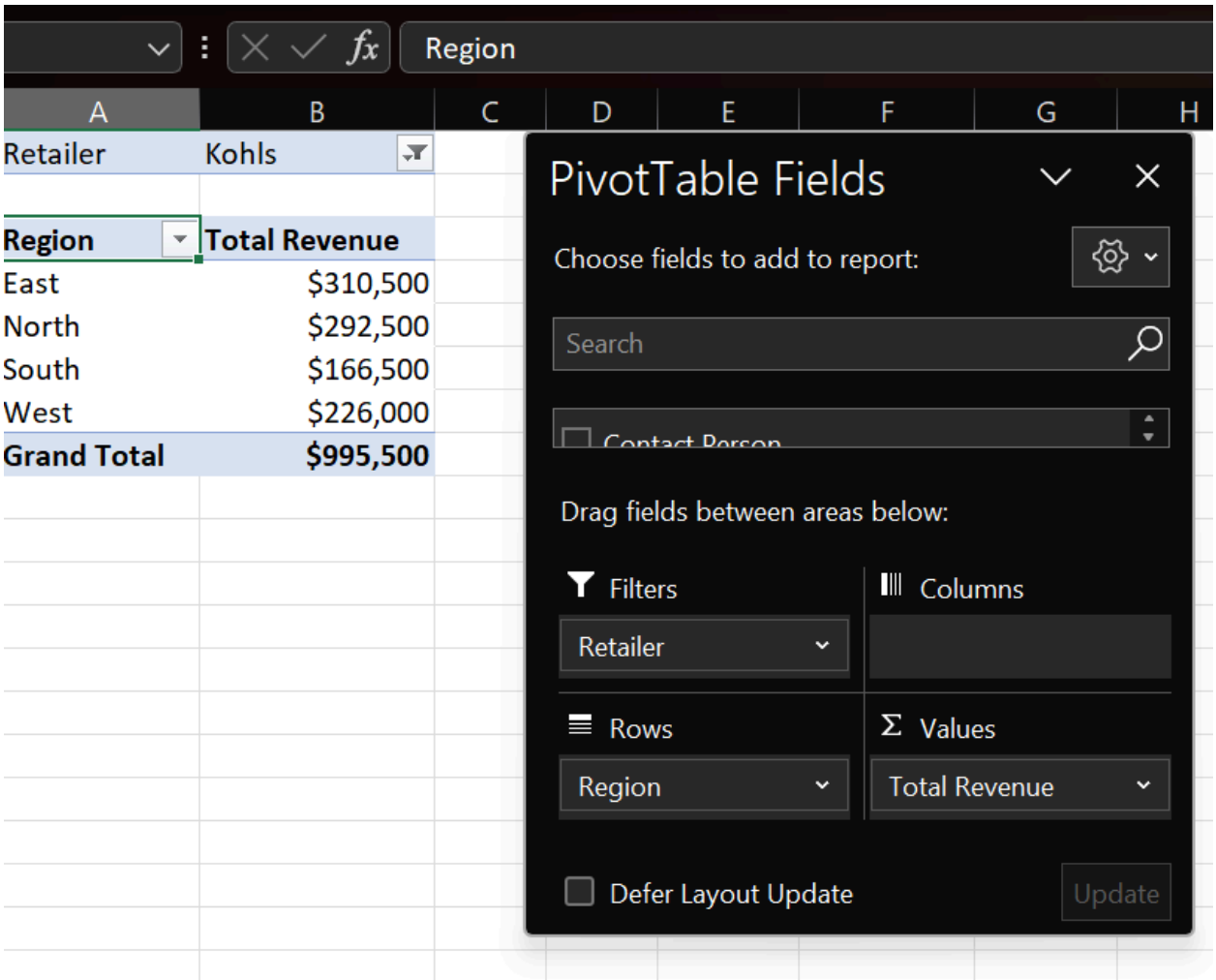
Answer:

	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

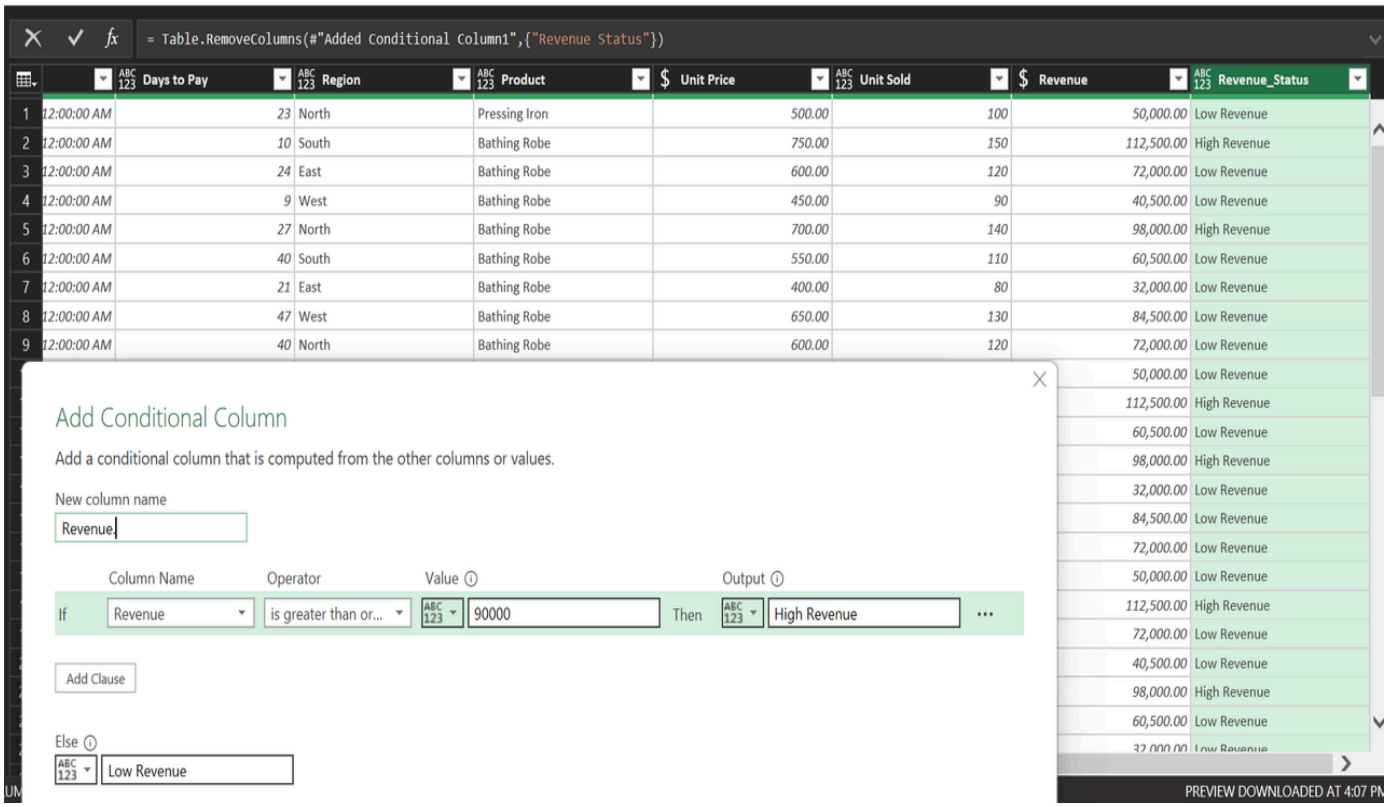
Answer:



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:

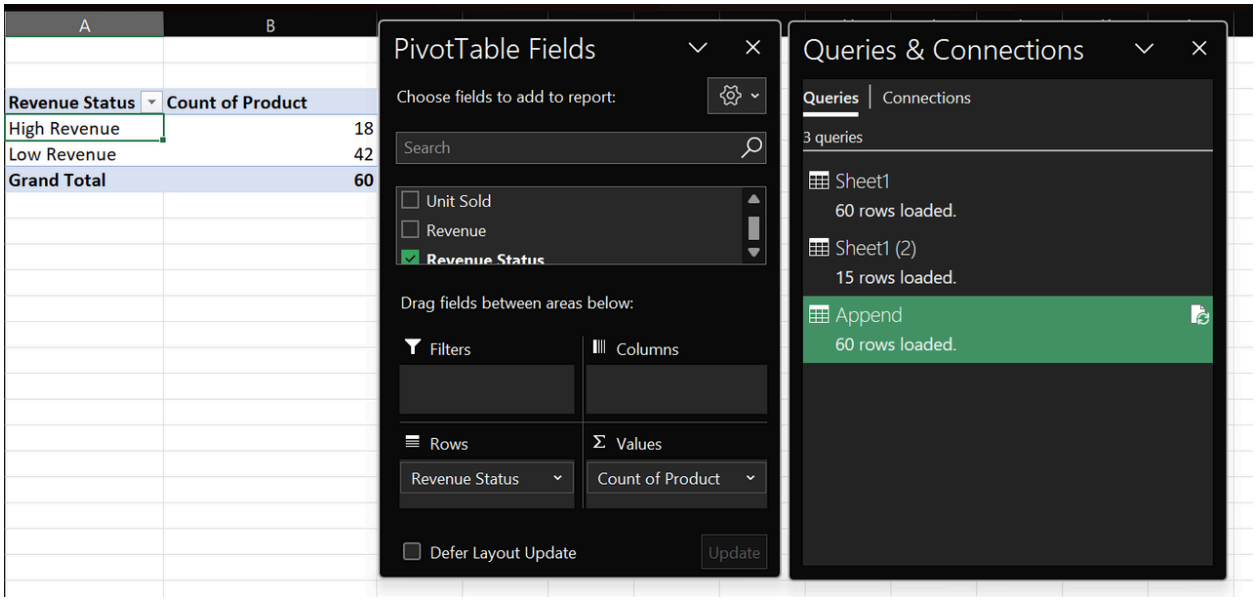


	Days to Pay	Region	Product	Unit Price	Unit Sold	Revenue	Revenue_Status
1	12:00:00 AM	23	North	Pressing Iron	500.00	100	50,000.00	Low Revenue
2	12:00:00 AM	10	South	Bathing Robe	750.00	150	112,500.00	High Revenue
3	12:00:00 AM	24	East	Bathing Robe	600.00	120	72,000.00	Low Revenue
4	12:00:00 AM	9	West	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

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.

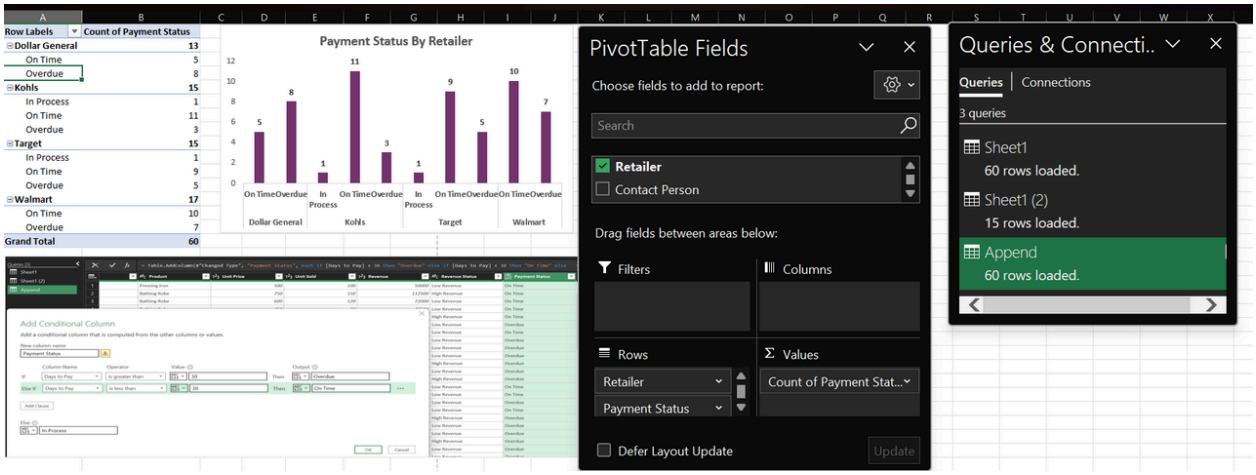
Answer:



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.

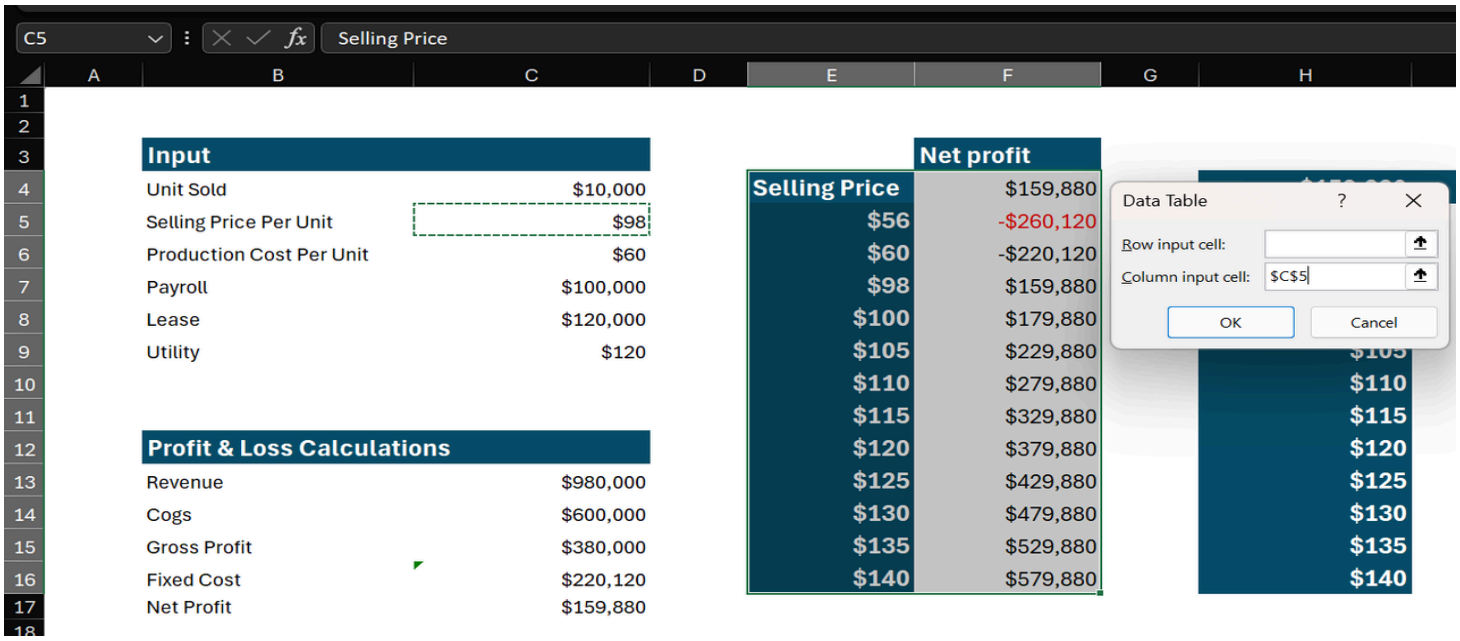
Answer:



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:



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
$120	$379,880
$125	$429,880
$130	$479,880
$135	$529,880
$140	$579,880

Data Table ? X

Row input cell: C4

Column input cell: C5

OK Cancel

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

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

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