



Coffee Shop Sales Analysis

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Overview

The data is taken from the Maven Analytics project, Which contains 10 columns and 149,118 rows. The project begins with a thorough examination of the coffee shop dataset to ensure data quality and add relevant date and time calculations. Next, the focus shifts to using Excel PivotTables to analyze trends based on time and product. Finally, the findings are visualized With interactive Pivot Charts to derive actionable insights and provide valuable recommendations for the coffee shop













transaction_id ~	transaction_date 🔻	transaction_time 🔻	transaction_qty v store	e_id store_location	product_id vunit	t_price rproduct_category	product_type	product_detail	▼ revenue ▼
1	1 01/01/2023	07:06:11	. 2	5 Lower Manhattan	32	3 Coffee	Gourmet brewed coffee	Ethiopia Rg	6
2	01/01/2023	07:08:56	2	5 Lower Manhattan	57	3,1 Tea	Brewed Chai tea	Spicy Eye Opener Chai Lg	6,2
3	3 01/01/2023	07:14:04	2	5 Lower Manhattan	59	4,5 Drinking Chocolate	Hot chocolate	Dark chocolate Lg	9
4	4 01/01/2023	07:20:24	1	5 Lower Manhattan	22	2 Coffee	Drip coffee	Our Old Time Diner Blend Sm	2
5	5 01/01/2023	07:22:41	. 2	5 Lower Manhattan	57	3,1 Tea	Brewed Chai tea	Spicy Eye Opener Chai Lg	6,2
6	5 01/01/2023	07:22:41	. 1	5 Lower Manhattan	77	3 Bakery	Scone	Oatmeal Scone	3
7	7 01/01/2023	07:25:49	1	5 Lower Manhattan	22	2 Coffee	Drip coffee	Our Old Time Diner Blend Sm	2
8	01/01/2023	07:33:34	2	5 Lower Manhattan	28	2 Coffee	Gourmet brewed coffee	Columbian Medium Roast Sm	4
9	9 01/01/2023	07:39:13	1	5 Lower Manhattan	39	4,25 Coffee	Barista Espresso	Latte Rg	4,25
10	01/01/2023	07:39:34	2	5 Lower Manhattan	58	3,5 Drinking Chocolate	Hot chocolate	Dark chocolate Rg	7
11	1 01/01/2023	07:43:05	1	5 Lower Manhattan	56	2,55 Tea	Brewed Chai tea	Spicy Eye Opener Chai Rg	2,55
12	01/01/2023	07:44:35	2	5 Lower Manhattan	33	3,5 Coffee	Gourmet brewed coffee	Ethiopia Lg	7
13	3 01/01/2023	07:45:51	. 1	5 Lower Manhattan	51	3 Tea	Brewed Black tea	Earl Grey Lg	3
14	4 01/01/2023	07:48:19	1	5 Lower Manhattan	57	3,1 Tea	Brewed Chai tea	Spicy Eye Opener Chai Lg	3,1
15	01/01/2023	07:52:36	2	5 Lower Manhattan	87	3 Coffee	Barista Espresso	Ouro Brasileiro shot	6
16	5 01/01/2023	07:59:58	2	5 Lower Manhattan	47	3 Tea	Brewed Green tea	Serenity Green Tea Lg	6
17	7 01/01/2023	07:59:58	1	5 Lower Manhattan	79	3,75 Bakery	Scone	Jumbo Savory Scone	3,75
18	01/01/2023	08:00:18	1	8 Hell's Kitchen	42	2,5 Tea	Brewed herbal tea	Lemon Grass Rg	2,5
19	9 01/01/2023	08:00:39	2	8 Hell's Kitchen	59	4,5 Drinking Chocolate	Hot chocolate	Dark chocolate Lg	9
20	01/01/2023	08:11:45	1	8 Hell's Kitchen	61	4,75 Drinking Chocolate	Hot chocolate	Sustainably Grown Organic Lg	4,75
21	1 01/01/2023	08:17:27	2	8 Hell's Kitchen	33	3,5 Coffee	Gourmet brewed coffee	Ethiopia Lg	7
22	01/01/2023	08:24:26	2	5 Lower Manhattan	56	2,55 Tea	Brewed Chai tea	Spicy Eye Opener Chai Rg	5,1
25	3 01/01/2023	08:24:26	1	5 Lower Manhattan	69	3,25 Bakery	Biscotti	HazeInut Biscotti	3,25
24	4 01/01/2023	08:29:38	1	8 Hell's Kitchen	56	2,55 Tea	Brewed Chai tea	Spicy Eye Opener Chai Rg	2,55
25	5 01/01/2023	08:31:23	1	8 Hell's Kitchen	40	3,75 Coffee	Barista Espresso	Cappuccino	3,75
26			1	5 Lower Manhattan	43	3 Tea	Brewed herbal tea	Lemon Grass Lg	3
					- 11				

Data Dictionary

- transaction_id: Unique sequential ID representing an individual transaction
- transaction_date : Date of the transaction (MM/DD/YY)
- transaction_time: Timestamp of the transaction (HH:MM:SS)
- · transaction_qty: Quantity of items sold
- store_id: Unique ID of the coffee shop where the transaction took place
- store_location: Location of the coffee shop where the transaction took place
- product_id: Unique ID of the product sold
- unit_price: Retail price of the product sold
- product_category : Description of the product category
- product_type : Description of the product type







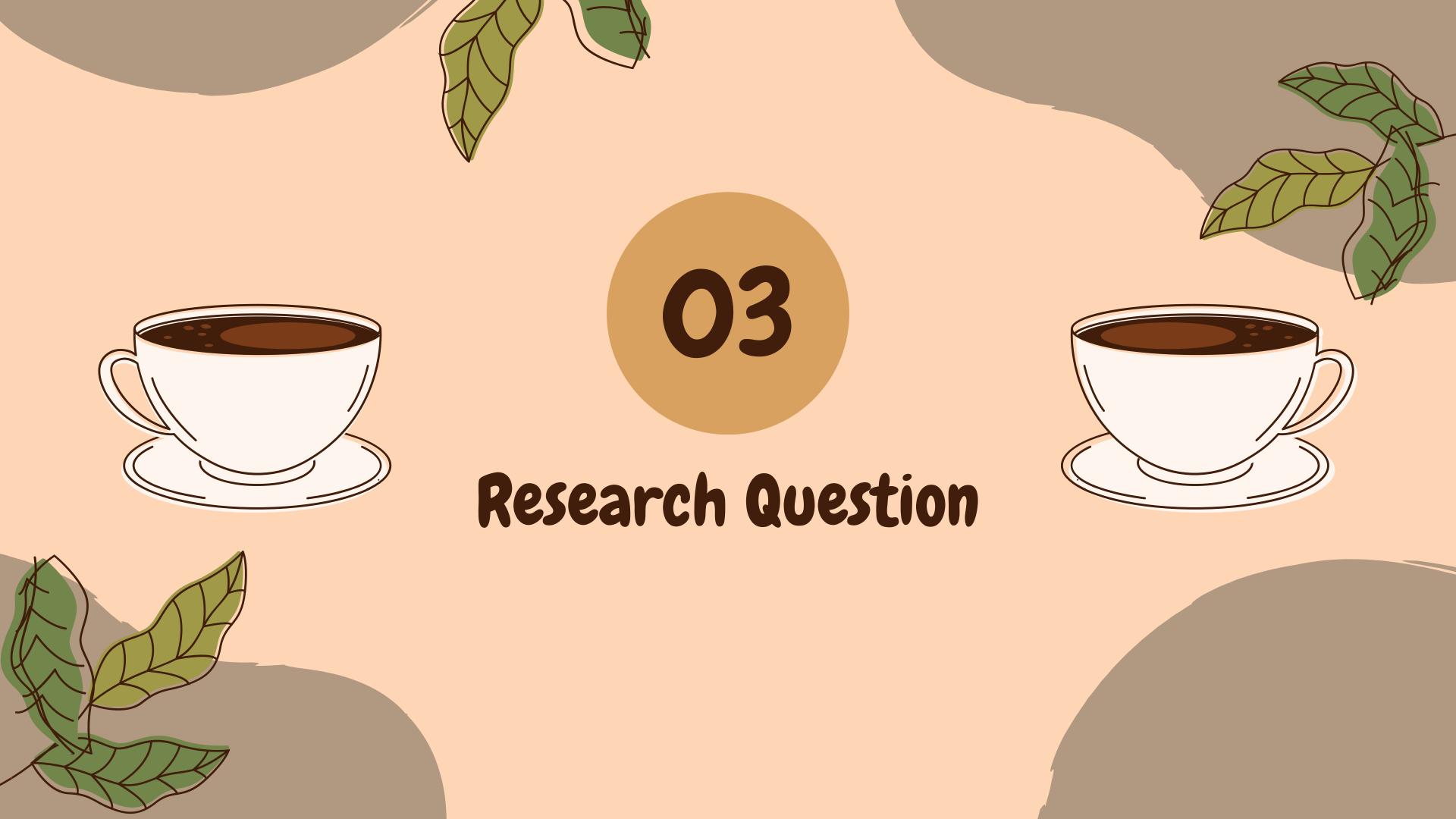




revenue 💌	day	month 🔻	hour 💌	tanggal 💌
6	Sunday	January	7	1
6,2	Sunday	January	7	1
9	Sunday	January	7	1
2	Sunday	January	7	1
6,2	Sunday	January	7	1
3	Sunday	January	7	1
2	Sunday	January	7	1
4	Sunday	January	7	1
4,25	Sunday	January	7	1
7	Sunday	January	7	1
2,55	Sunday	January	7	1
7	Sunday	January	7	1
3	Sunday	January	7	1
3,1	Sunday	January	7	1
6	Sunday	January	7	1
6	Sunday	January	7	1
3,75	Sunday	January	7	1
2,5	Sunday	January	8	1
9	Sunday	January	8	1
4,75	Sunday	January	8	1
7	Sunday	January	8	1
5,1	Sunday	January	8	1
3,25	Sunday	January	8	1
2,55	Sunday	January	8	1
3,75	Sunday	January	8	1
3	Sunday	January	8	1

Create New Columnn

- revenue = unit_price * transaction_qty: Calculates revenue by multiplying the unit price by the transaction quantity.
- Day =TEXT(transaction_date, "dddd"): Extracts the day of the Week from the transaction date
- Month =TEXT(transaction_date, "mmmm"): Extracts the full name of the month from the transaction date.
- Hour =TEXT(transaction_time): Extracts the time from the transaction time in hours.
- Date =DAY(transaction_date): Extracts the day of the month from the transaction date as a number.

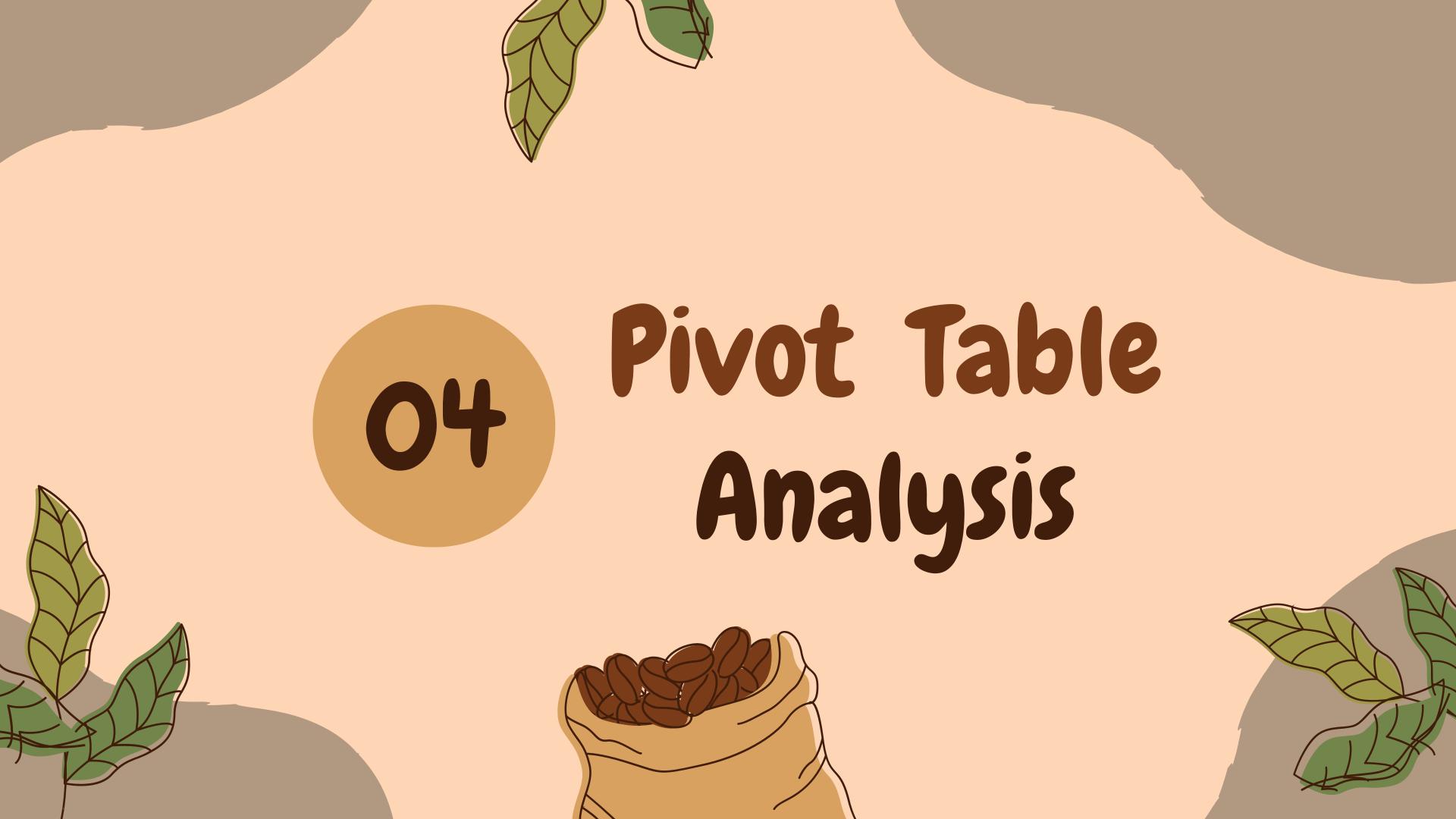




List Questions

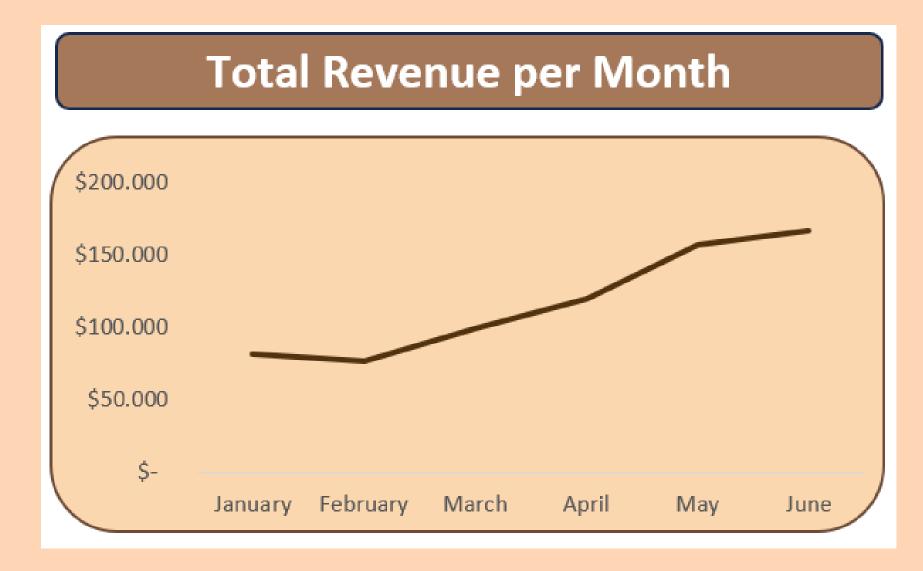
- Create Pivot Charts to display revenue by month as a line chart, transactions by day
 of the Week and hour of the day as column charts, and transactions by product
 category as a bar chart
- Assemble the charts into a rough dashboard layout, and include space for the PivotTable showing Top 15 product types.
- Add a slicer for store location, and connect it to all of the PivotTables on the sheet
- Adjust formatting, alignment and polish to finalize the dashboard (TIP: hide the raw PivotTables and remove the worksheet gridlines)







Month	ੁπ Sum d	of revenue
January	\$	81.678
February	\$	76.145
March	\$	98.835
April	\$	118.941
May	\$	156.728
June	\$	166.486



Inshigt

From the line chart, it can be seen that revenue tended to increase in the last month. Although there was a decline in February, revenue picked up again in the following months. This positive trend indicates that our marketing strategies successfully overcame the challenges at the beginning of the year. If this trend continues, there is hope that revenue will keep rising in the next quarter





Day Transaction	
Sunday	30.182
Monday	31.231
Tuesday	30.449
Wednesday	30.625
Thursday	31.162
Friday	31.207
Saturday	29.614

Transaction by Day of Week Sunday Monday 31.231 Tuesday 30.449 Wednesday 30.625 Thursday 31.162 Friday 31.207 Saturday

Inshigt

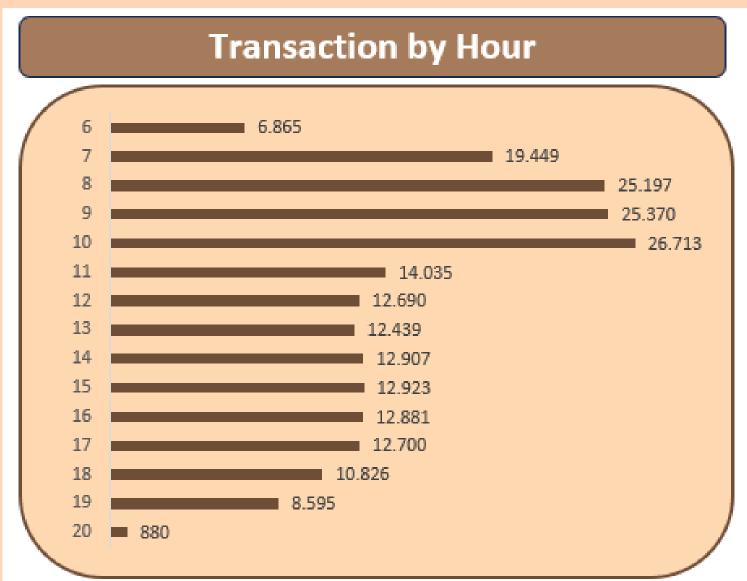
From the column chart, it can be seen that the highest transactions occur on Monday, Thursday, and Friday. Although there is a dip on Tuesday, transactions significantly pick up again on the following days. Despite a drop on Saturday, transactions rise again on Sunday and peak once more on Monday. This pattern indicates that Monday, Thursday, and Friday are the busiest days for transactions. Understanding this trend can help us plan better marketing strategies and optimize our offerings on these high-activity days





Transaction by Hour

Hour 🗔	Transaction
6	6.865
7	19.449
8	25.197
9	25.370
10	26.713
11	14.035
12	12.690
13	12.439
14	12.907
15	12.923
16	12.881
17	12.700
18	10.826
19	8.595
20	880



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Transactions are highest at 10 AM and lowest at 8 PM. The best time for transactions is in the morning. Understanding this trend can help us plan better marketing strategies and optimize our offerings during peak activity hours.









Transaction by Product Category

Product Category	Transaction
Packaged Chocolat	e 487
Branded	776
Loose Tea	1.210
Coffee beans	1.828
Flavours	10.511
Drinking Chocolate	17.457
Bakery	23.214
Tea	69.737
Coffee	89.250

Transaction by Product Category Bakery 23.214 Drinking Chocolate | Flavours 10.511 Coffee beans ■ 1.828 Loose Tea ■ 1,210 Branded | 776 Packaged Chocolate | 487

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Product transactions are highest in the coffee and tea categories, While the least popular product is packaged chocolate. It is recommended to focus on stocking and promoting coffee and tea products and to consider increasing promotions or revising sales strategies for less popular products like packaged chocolate.

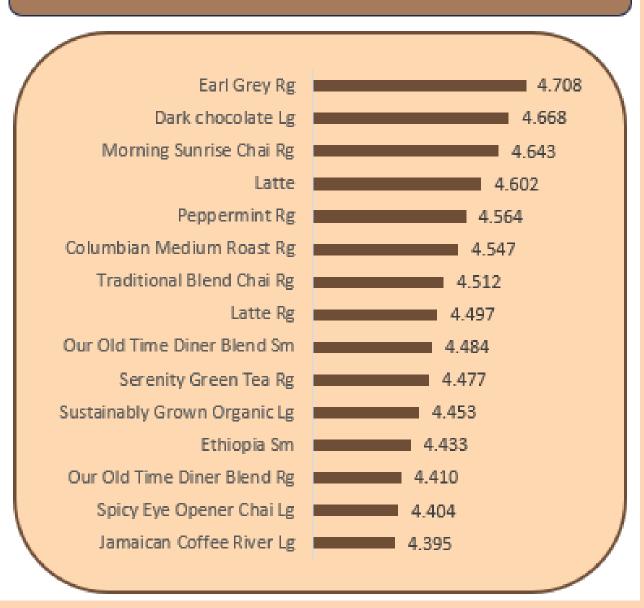






Top 15 Best-Selling

Top 15 Best-Selling Products



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The most transactions are for the product Earl Grey RG, With a total of 4,708 transactions. The highest revenue comes from the product Sustainably Grown Organic RG, amounting to \$21,152, although this product ranks 11th in sales with a total of 4,453 transactions. This indicates that while Earl Grey RG has the highest number of transactions, the highest sales value is generated by Sustainably Grown Organic RG.

Top 15 Best-Selling Revenue



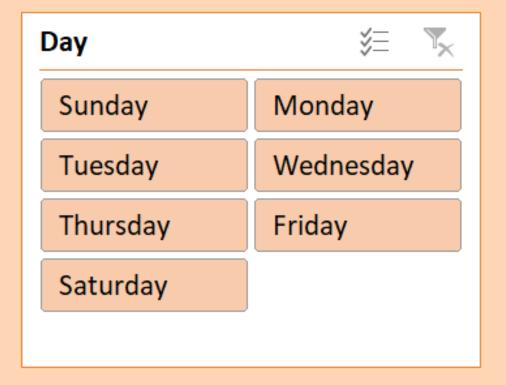


Slicer

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With a slicer, you can select specific categories, Branch, Day, Month to display in reports or pivot tables. This tool simplifies data analysis by allowing you to quickly and intuitively view relevant subsets of data.

















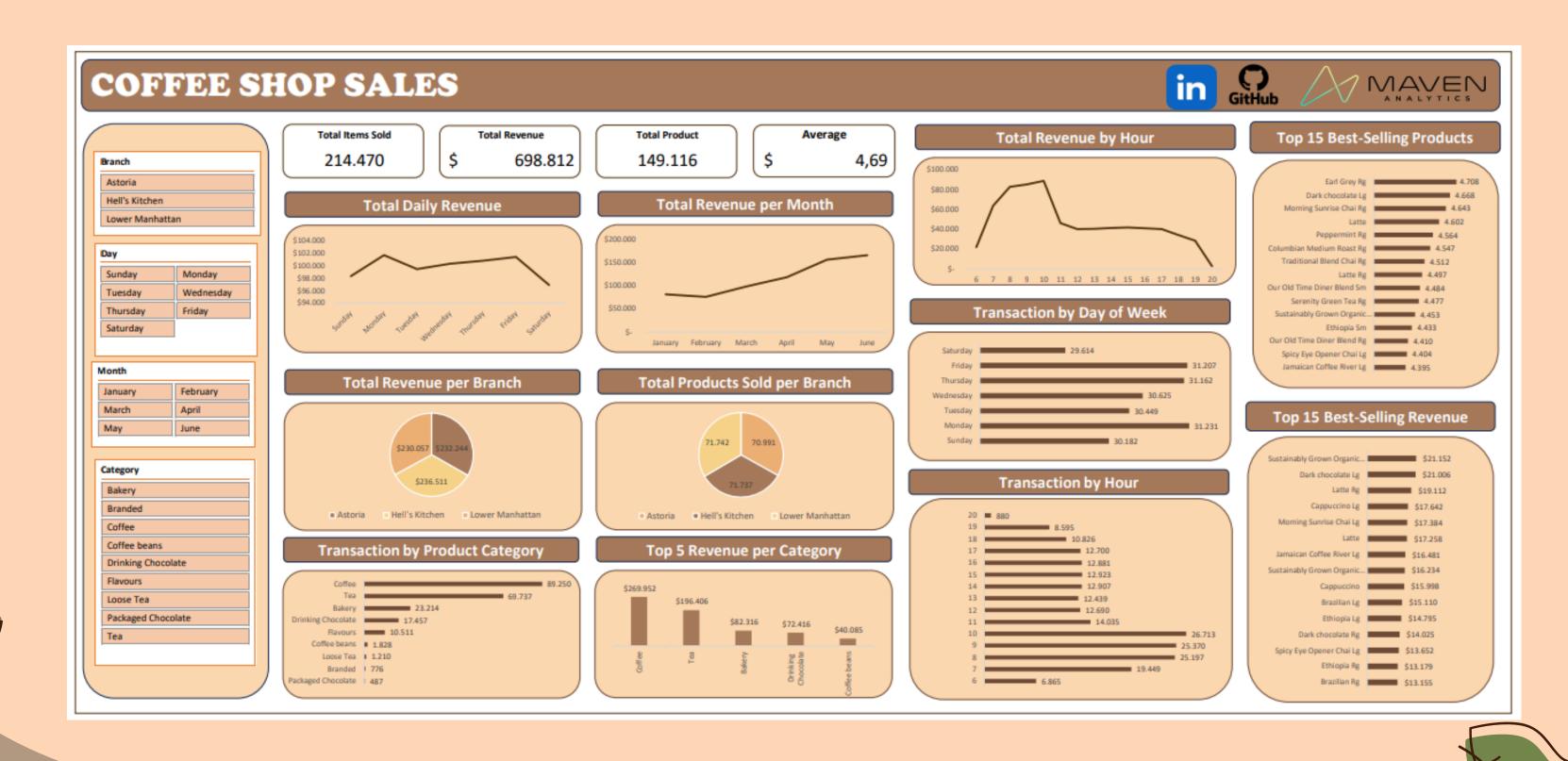
Dashboard

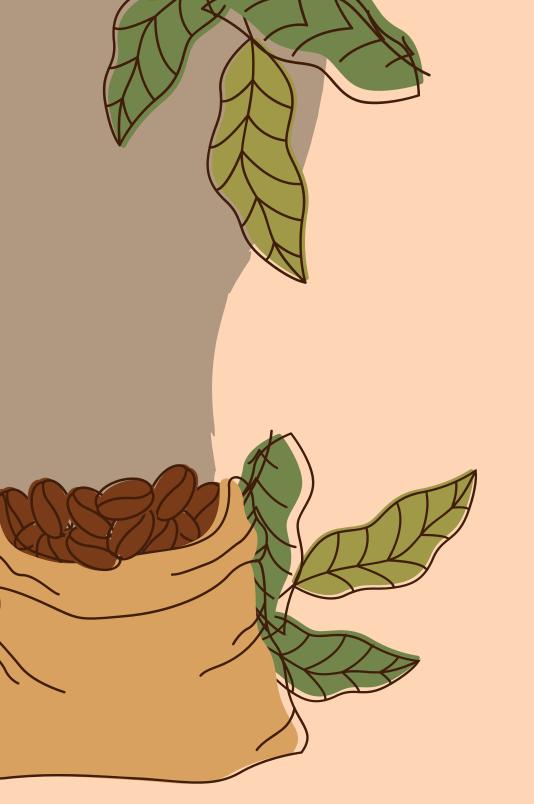






Dashboard Interactive





Thanks!

If you have any questions or need further information, feel free to reach out.















