360° Sales Analysis: Identifying Key Revenue Peaks, Customer Behavior, and Product Impact

Summary:

This analysis explores sales trends based on transactional data, focusing on monthly revenue fluctuations, demographic influences, product performance, and customer behavior. It identifies May and October as the highest revenue-generating months, with over ₹50,000 and ₹46,000 respectively. Conversely, September is highlighted as the weakest month, with revenue around ₹23,600.



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Key Insights:

Seasonal Trends:

Revenue significantly **peaks in May and October**, indicating
strong seasonal influences —
possibly due to promotional
events, festivals, or market
cycles.

Revenue Dip in September:

The month of **September underperforms**. This could be due to post-monsoon inactivity or consumer saving behavior before major festivals.

Gender-wise Analysis:

Males slightly outspent females in total revenue, although average purchase values were competitive across genders.

Age-wise Breakdown:

Customers in the **30s and 50+** age groups contributed the most to total revenue. Older age groups also had higher average transaction values.

Day-wise Sales:

Weekends (Saturday & Sunday) saw the highest number of transactions and revenue, suggesting strategic opportunities for campaigns and offers.

Top Performing Products:

Categories like **Electronics**, **Fashion**, and **Groceries** led in terms of total sales and quantities sold, emphasizing their popularity.

Customer Insights:

A few customers showed high frequency and high-value spending, revealing loyal and potentially high-LTV (lifetime value) customers.

Data Source & Tools:

Data Table Used:

SalesData

Tool Used:

SQL for querying

Platform for Presentation:

Gamma.app

Metrics Evaluated:

- Total Revenue
- Monthly Trends
- Product Category Performance
- Gender and Age Group Analytics
- Day-wise Transactions
- Top Customers by Spend & Frequency



Purpose & Business Application:

This report can assist decision-makers in:

Targeted Marketing

Planning targeted marketing campaigns around May and October.

Addressing Low-Performing Months

Addressing low-performing months like September with offers or new product introductions.

Tailoring Promotions

Tailoring **product promotions** by gender, age, or day of week.

Enhancing Customer Strategies

Enhancing **customer segmentation** and loyalty strategies.

Optimization

Stock planning and workforce optimization during hightraffic days.

Observation: Revenue peaks in May and October, with over 50K and 46K respectively.

You said: Observation-Revenue-peaks-in-May-and-October-with-over-50K-and-46K-respectively.pdf PDF give all pdf content in text ChatGPT said: Here is the extracted text content from the PDF titled "Observation - Revenue peaks in May and October

key month needing targeted campaigns.

Lowest Revenue: September shows the weakest performance (~23.6K). Insight: Particular elements in seasonal trends may be boosting sales in May and October, whereas September could be a

Untitled Observation: Revenue peaks in May and October, with over 50K and 46K respectively.

SQL Queries used: Total Revenue:

By Harsh Verma

sql Copy Edit SELECT SUM(TotalAmount) AS Total_Revenue FROM SalesData;

Monthly Revenue Breakdown:

sql Copy Edit SELECT Month, SUM(TotalAmount) AS Revenue FROM SalesData GROUP BY Month ORDER BY CASE

Month WHEN 'Jan' THEN 1 WHEN 'Feb' THEN 2 WHEN 'Mar' THEN 3 WHEN 'Apr' THEN 4 WHEN 'May' THEN 5 WHEN 'Jun' THEN 6 WHEN 'Jul' THEN 7 WHEN 'Aug' THEN 8 WHEN 'Sep' THEN 9 WHEN 'Oct' THEN 10 WHEN 'Nov'

THEN 11 WHEN 'Dec' THEN 12 ELSE 13 END;

with over 50K and 46K respectively":

Top 5 Product Categories by Revenue:

sql Copy Edit SELECT ProductCategory, SUM(TotalAmount) AS Revenue FROM SalesData GROUP BY ProductCategory ORDER BY Revenue DESC LIMIT 5; Revenue by Gender:

sql Copy Edit SELECT Gender, ROUND(SUM(TotalAmount)) AS Revenue FROM SalesData GROUP BY Gender;

Revenue and Customer Count by Age Group: sql Copy Edit SELECT CASE WHEN Age < 20 THEN 'Teen' WHEN Age BETWEEN 20 AND 29 THEN '20s' WHEN Age BETWEEN 30 AND 39 THEN '30s' WHEN Age BETWEEN 40 AND 49 THEN '40s' ELSE '50+' END AS AgeGroup, COUNT(*) AS CustomerCount, SUM(TotalAmount) AS Revenue FROM SalesData GROUP BY AgeGroup;

Average Quantity by Product Category: sql Copy Edit SELECT ProductCategory, AVG(Quantity) AS AvgQuantity FROM SalesData GROUP BY ProductCategory;

Transactions by Day: sql Copy Edit SELECT Day, COUNT(*) AS Transactions FROM SalesData GROUP BY Day ORDER BY Day DESC; Top 5 Customers by Transactions:

sql Copy Edit SELECT CustomerID, COUNT(*) AS Transactions, SUM(TotalAmount) AS TotalSpent FROM SalesData GROUP BY CustomerID ORDER BY Transactions DESC LIMIT 5; Top 5 Customers by Spending: sql Copy Edit SELECT CustomerID, SUM(TotalAmount) AS TotalSpent FROM SalesData GROUP BY CustomerID ORDER BY TotalSpent DESC LIMIT 5;

Total Units Sold by Product Category: sql Copy Edit SELECT ProductCategory, SUM(Quantity) AS TotalUnitsSold FROM SalesData GROUP BY ProductCategory ORDER BY TotalUnitsSold DESC;

Average Monthly Revenue: sql Copy Edit SELECT Month, AVG(TotalAmount) AS AvgRevenue FROM SalesData GROUP BY Month ORDER BY Month DESC; Average Purchase by Gender: sql Copy Edit SELECT Gender, AVG(TotalAmount) AS AvgPurchase FROM SalesData GROUP BY Gender;

sql Copy Edit SELECT Day, SUM(TotalAmount) AS TotalSales FROM SalesData GROUP BY Day ORDER BY TotalSales DESC LIMIT 5; Spending and Transactions by Age Range: sql Copy Edit SELECT CASE WHEN Age BETWEEN 18 AND 25 THEN '18-25' WHEN Age BETWEEN 26 AND 35 THEN '26-35' WHEN Age BETWEEN 36 AND 45 THEN '36-45' ELSE '46+' END AS AgeGroup, COUNT(*) AS Transactions, SUM(TotalAmount) AS TotalSpent, AVG(TotalAmount) AS AvgSpent FROM SalesData GROUP BY AgeGroup;

Top 5 Days by Sales:

You said: withoutput

promotional strategies.

SQL Queries with Outputs

By Harsh Verma

1. Total Revenue

Total_Revenue

2. Monthly Revenue Breakdown

THEN 11 WHEN 'Dec' THEN 12 END;

432,000

Output:

Month

Jan

Feb

Mar

Apr

May

Jun

Jul

Output:

ProductCategory

Electronics

Fashion

Groceries

Furniture

Beauty

Output:

Gender

Male

Output:

AgeGroup

Teen

20s

30s

40s

50+

Output:

Output:

Day

Sunday

Saturday

Thursday

Wednesday

Tuesday

Monday

Output:

C102

C157

C199

C123

C204

Output:

C305

C102

C401

C123

C157

Output:

ProductCategory

Groceries

Fashion

Beauty

Electronics

Furniture

Month DESC;

Output (sample):

Month

Dec

Nov

Oct

Sep

Aug

Output:

Gender

Male

Female

13. Top 5 Days by Sales

DESC LIMIT 5;

Output:

Day

Sunday

Saturday

Friday

36-45

46+

Thursday

Wednesday

12. Average Purchase by Gender

11. Average Monthly Revenue

CustomerID

9. Top 5 Customers by Spending

ORDER BY TotalSpent DESC LIMIT 5;

10. Total Units Sold by Product Category

ProductCategory ORDER BY TotalUnitsSold DESC;

CustomerID

8. Top 5 Customers by Transactions

GROUP BY CustomerID ORDER BY Transactions DESC LIMIT 5;

Friday

ProductCategory;

ProductCategory

Female

5. Revenue and Customer Count by Age Group

6. Average Quantity by Product Category

4. Revenue by Gender

Output:

Lowest Revenue: September (~23.6K).

Let me know if you want this cleaned up further or formatted for a report/dashboard.

original PDF had no explicit outputs, I've inferred and illustrated outputs for context and clarity:

PObservation Revenue peaks in May and October, with over 50K and 46K respectively.

sql Copy Edit SELECT SUM(TotalAmount) AS Total_Revenue FROM SalesData;

ChatGPT said: Here is the full PDF content including the SQL queries and their outputs, assuming sample/reasonable

Insight: Seasonal patterns suggest strong sales in May and October. September may require targeted marketing or

sql Copy Edit SELECT Month, SUM(TotalAmount) AS Revenue FROM SalesData GROUP BY Month ORDER BY CASE

WHEN 'Jun' THEN 6 WHEN 'Jul' THEN 7 WHEN 'Aug' THEN 8 WHEN 'Sep' THEN 9 WHEN 'Oct' THEN 10 WHEN 'Nov'

Revenue

28,500

31,000

35,600

37,000

51,200

38,700

39,800

33,400

23,600

46,500

36,900

29,800

Revenue

98,000

81,000

70,000

62,000

55,000

Revenue

220,000

212,000

Revenue

35,000

95,000

105,000

90,000

107,000

sql Copy Edit SELECT Gender, ROUND(SUM(TotalAmount)) AS Revenue FROM SalesData GROUP BY Gender;

sql Copy Edit SELECT CASE WHEN Age < 20 THEN 'Teen' WHEN Age BETWEEN 20 AND 29 THEN '20s' WHEN Age

BETWEEN 30 AND 39 THEN '30s' WHEN Age BETWEEN 40 AND 49 THEN '40s' ELSE '50+' END AS AgeGroup,

COUNT(*) AS CustomerCount, SUM(TotalAmount) AS Revenue FROM SalesData GROUP BY AgeGroup;

CustomerCount

500

1,200

1,400

1,100

900

sql Copy Edit SELECT ProductCategory, AVG(Quantity) AS AvgQuantity FROM SalesData GROUP BY

AvgQuantity

1.5

3.2

5.1

1.1

2.8

Transactions

1,250

1,220

1,180

1,150

1,100

1,020

950

TotalSpent

6,500

6,000

5,800

6,100

5,900

sql Copy Edit SELECT CustomerID, COUNT(*) AS Transactions, SUM(TotalAmount) AS TotalSpent FROM SalesData

sql Copy Edit SELECT CustomerID, SUM(TotalAmount) AS TotalSpent FROM SalesData GROUP BY CustomerID

TotalSpent

7,800

6,500

6,400

6,100

6,000

10,500

8,200

7,400

5,300

3,100

AvgRevenue

2,483

3,075

3,875

1,965

2,783

AvgPurchase

42.5

39.7

TotalSales

65,000

62,000

58,000

55,000

53,500

TotalSpent

68,000

102,000

93,000

97,000

AvgSpent

71.6

78.5

84.5

97.0

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sql Copy Edit SELECT Day, SUM(TotalAmount) AS TotalSales FROM SalesData GROUP BY Day ORDER BY TotalSales

sql Copy Edit SELECT Gender, AVG(TotalAmount) AS AvgPurchase FROM SalesData GROUP BY Gender;

sql Copy Edit SELECT Month, AVG(TotalAmount) AS AvgRevenue FROM SalesData GROUP BY Month ORDER BY

sql Copy Edit SELECT ProductCategory, SUM(Quantity) AS TotalUnitsSold FROM SalesData GROUP BY

Transactions

48

46

45

43

42

sql Copy Edit SELECT Day, COUNT(*) AS Transactions FROM SalesData GROUP BY Day ORDER BY Day DESC;

Month WHEN 'Jan' THEN 1 WHEN 'Feb' THEN 2 WHEN 'Mar' THEN 3 WHEN 'Apr' THEN 4 WHEN 'May' THEN 5

output based on the analysis title ("Revenue peaks in May and October with over 50K and 46K respectively"). Where the

Output: AgeGroup 18-25 950 26-35 1,300

Aug Sep Oct Nov Dec 3. Top 5 Product Categories by Revenue sql Copy Edit SELECT ProductCategory, SUM(TotalAmount) AS Revenue FROM SalesData GROUP BY

ProductCategory ORDER BY Revenue DESC LIMIT 5;

14. Spending and Transactions by Age Range sql Copy Edit SELECT CASE WHEN Age BETWEEN 18 AND 25 THEN '18-25' WHEN Age BETWEEN 26 AND 35 THEN '26-35' WHEN Age BETWEEN 36 AND 45 THEN '36-45' ELSE '46+' END AS AgeGroup, COUNT(*) AS Transactions, SUM(TotalAmount) AS TotalSpent, AVG(TotalAmount) AS AvgSpent FROM SalesData GROUP BY AgeGroup; **Transactions**

1,100

1,000

Electronics Fashion Groceries **Furniture** Beauty 7. Transactions by Day