SALES DATA ANALYSIS USING SQL

DATABASE CREATION

```
CREATE DATABASE Sales_Analysis
USE Sales_Analysis
```

TABLE STRUCTURE

```
CREATE TABLE Sales (
    Sales_Id INT PRIMARY KEY,
    Sale_Date DATE,
    Product_Name NVARCHAR (25),
    Category NVARCHAR (15),
    Quantity INT,
    Price DECIMAL (10,2),
    Location NVARCHAR (30)
);
```

TABLE SAMPLE VALUES

QUERIES:

SELECT * FROM Sales

⊞ F	Results 📳	Messages					
	Sales_ld	Sale_Date	Product_Name	Category	Quantity	Price	Location
1	1	2025-02-14	Sunglasses	Accessories	2	1500.00	Mumbai
2	2	2024-11-22	Laptop	Electronics	5	45000.00	Delhi
3	3	2025-02-27	Tablet	Electronics	7	22000.00	Mumbai
4	4	2025-02-12	Tablet	Electronics	8	22000.00	Bangalore
5	5	2024-02-17	Tablet	Electronics	10	22000.00	Mumbai
6	6	2024-05-25	Headphones	Electronics	2	1500.00	Kolkata
7	7	2024-05-04	Smartphone	Electronics	7	30000.00	Delhi
8	8	2025-02-10	Shirt	Clothing	7	700.00	Pune
9	9	2024-07-13	Backpack	Accessories	1	1800.00	Mumbai
10	10	2024-11-05	Smartphone	Electronics	4	30000.00	Chennai
11	11	2025-03-10	Smartphone	Electronics	7	30000.00	Delhi
12	12	2024-06-18	Jeans	Clothing	1	1200.00	Pune

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140	140	2024-10-21	Headphones	Electronics	3	1500.00	Hyderab
141	141	2024-01-31	Shirt	Clothing	6	700.00	Kolkata
142	142	2025-02-11	Shoes	Footwear	9	2500.00	Hyderab
143	143	2024-08-25	Shoes	Footwear	5	2500.00	Kolkata
144	144	2024-11-07	Headphones	Electronics	4	1500.00	Delhi
145	145	2024-10-05	Smartphone	Electronics	1	30000.00	Coimbat
146	146	2024-12-05	Laptop	Electronics	3	45000.00	Pune
147	147	2024-05-09	Laptop	Electronics	7	45000.00	Hyderab
148	148	2025-07-19	Headphones	Electronics	7	1500.00	Hyderab
149	149	2025-01-27	Shoes	Footwear	8	2500.00	Delhi
150	150	2024-10-27	Headphones	Electronics	5	1500.00	Chennai

1. WHAT ARE THE TOP 5 SELLING PRODUCTS?

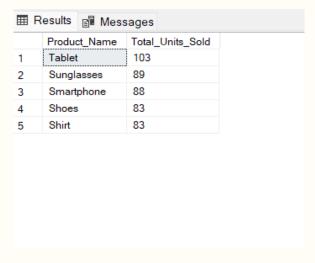
SELECT TOP 5

Product_Name, SUM(Quantity) AS Total_Units_Sold

FROM Sales

GROUP BY Product_Name

ORDER BY Total_Units_Sold DESC;



2. WHICH ARE THE TOP 5 SELLING'S BY REVENUE?

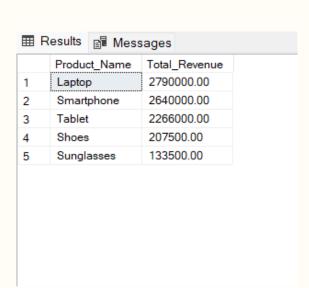
SELECT TOP 5

Product_Name, SUM(Quantity * Price) AS Total_Revenue

FROM Sales

GROUP BY Product_Name

ORDER BY Total_Revenue DESC;



3. Show the Monthly Revenue Trends.

SELECT

FORMAT(Sale_Date, 'yyyy-MM') AS MONTH,
SUM(Quantity * Price) AS Monthly_Revenue

FROM Sales

GROUP BY FORMAT(Sale_Date, 'yyyy-MM')

ORDER BY MONTH;

	Results		Messages	
	MONT	Н	Monthly_Re	venue
1	2024-0	01	139200.00	
2	2024-0	02	725100.00	
3	2024-0	03	746300.00	
4	2024-0	04	288800.00	
5	2024-0	05	887500.00	
6	2024-0	06	509000.00	
7	2024-0	07	365600.00	
8	2024-0	80	268700.00	
9	2024-0	09	83400.00	
10	2024-1	10	415200.00	

10	2024-10	415200.00
11	2024-11	389700.00
12	2024-12	730700.00
13	2025-01	48900.00
14	2025-02	690900.00
15	2025-03	541200.00
16	2025-04	114600.00
17	2025-05	563800.00
18	2025-06	929400.00
19	2025-07	68700.00

4. Show the Quarterly Revenue Trends.

SELECT

 ${\tt CONCAT(YEAR(Sale_Date), '-Q', DATEPART(QUARTER, Sale_Date))} \ AS \ quarter,$

SUM(Quantity * Price) AS Quarterly_Revenue

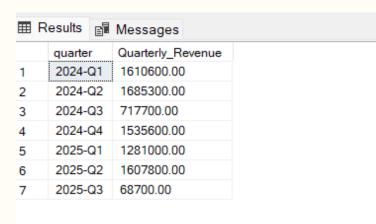
FROM Sales

GROUP BY YEAR(Sale_Date),

DATEPART(QUARTER, Sale_Date)

ORDER BY YEAR(Sale_Date),

DATEPART(QUARTER, Sale_Date);



5. QUERY THE SALES BY REGION.

SELECT Location, SUM(Quantity * Price) AS Total_Revenue

FROM Sales

GROUP BY Location

ORDER BY Total_Revenue DESC;

⊞R	esults 📳 N	Messages		
	Location	Total_Revenue		
1	Delhi	1652800.00		
2	Kolkata	1362900.00		
3	Hyderabad	1243000.00		
4	Coimbatore	1143900.00		
5	Mumbai	1114000.00		
6	Bangalore	889800.00		
7	Pune	684900.00		
8	Chennai	415400.00		

6. QUERY THE SALES BY CATEGORY.

SELECT Category, SUM(Quantity * Price) AS Total_Revenue
FROM Sales
GROUP BY Category
ORDER BY Total_Revenue DESC;

