

Questions

Question 1: Who are customers who have spent the most during this year?

SQLQuery1.sql - L...3E2AC\Lenovo (61))*

SELECT

c.Name,

c.Phone,

c.Address,

SUM(cp.Total_Purchased * p.Price) AS Total_Spent

FROM

Customer c

JOIN

Customer_Products cp ON c.ID = cp.Customer_ID

JOIN

Products p ON cp.Product_ID = p.Product_ID

WHERE

YEAR(cp.Purchased_Date) = 2024

GROUP BY

c.Name, c.Phone, c.Address

ORDER BY

Total_Spent DESC;

100 %

Results

Messages

	Name	Phone	Address	Total_Spent
1	Mai Thanh Toan	0912354448	42 Mai Hac De street, Hai Ba Trung, Hanoi	120
2	Nguyen Ha Linh	0901234567	123 Tran Hung Dao street, Hoan Kiem district, Ha...	120
3	Nguyen Van Dao	099290121	unknown	110
4	Bui Thanh Dat	0931916683	Go Vap district, Ho Chi Minh city	110
5	Nguyen Lan Tuong	0912488129	Hoan Kiem district, Hanoi	105
6	Pham Ngoc Anh	0912354488	Hanoi	70
7	Nguyen Bich Ngoc	0988823569	321 Tran Hung Dao street, Thanh Khe, Da Nang	66
8	Tran Anh Phuong	0900129154	99 Le Loi street, Hai Ba Trung, Hanoi	50
9	Nguyen Thuy Linh	0912354891	69 Tran Hung Dao street, Hoan Kiem district, Hanoi	45
10	Phan Nam Khanh	0954375891	Ba Dinh district, Hanoi	30
11	Nguyen Ngoc Lan	0902345678	456 Le Loi street, Hai Bà Trung district, Hanoi	26
12	Bui Phuong Linh	0985378953	1010 Vo Thi Sau street, Thanh Khe district, Da Na...	20

Question 2: Get a list of customers who live in a specific city (example: Hanoi)

SQLQuery1.sql - L...3E2AC\Lenovo (61))*

SELECT *
FROM Customer
WHERE Address LIKE '%Hanoi%';

100 %

Results

Messages

	ID	Name	Phone	Gender	Address
1	1	Nguyen Ha Linh	0901234567	1	123 Tran Hung Dao street, Hoan Kiem district, Ha...
2	2	Nguyen Ngoc Lan	0902345678	1	456 Le Loi street, Hai Ba Trung district, Hanoi
3	4	Phan Nam Khanh	0954375891	0	Ba Dinh district, Hanoi
4	7	Tran Hoai An	0982458392	1	Ba Dinh district, Hanoi
5	11	Bui Thi Hai Linh	0912348822	1	456 Le Loi street, Hai Ba Trung district, Hanoi
6	14	Nguyen Thuy Linh	0912354891	1	69 Tran Hung Dao street, Hoan Kiem district, Hanoi
7	15	Nguyen Lan Tuong	0912488129	1	Hoan Kiem district, Hanoi
8	16	Tran Anh Phuong	0900129154	1	99 Le Loi street, Hai Ba Trung, Hanoi
9	17	Pham Ngoc Anh	0912354488	1	Hanoi
10	19	Mai Thanh Toan	0912354448	0	42 Mai Hac De street, Hai Ba Trung, Hanoi
11	20	Vu Minh Quan	0935119034	0	Gia Lam district, Hanoi

Question 3: What’re top 3 best selling products of this year?

SQLQuery1.sql - L...3E2AC\Lenovo (61))*

SELECT TOP (3)
p.Product_ID,
p.Product_Name,
SUM(cp.Total_Purchased) AS Total_Sold,
MIN(cp.Purchased_Date) AS Earlier_Purchased_Date,
MAX(cp.Purchased_Date) AS Latest_Purchased_Date
FROM
Customer_Products cp
JOIN
Products p ON cp.Product_ID = p.Product_ID
WHERE
MONTH(cp.Purchased_Date) = 12
AND Year(cp.Purchased_Date) = 2024
GROUP BY
p.Product_ID, p.Product_Name
ORDER BY
Total_Sold DESC;

100 %

Results

Messages

	Product_ID	Product_Name	Total_Sold	Earlier_Purchased_Date	Latest_Purchased_Date
1	412892	RUFFLE HEM DRESS D20312	3	2024-12-01 13:10:00.000	2024-12-01 13:10:00.000
2	128121	V-NECK SWEATER SW00182	2	2024-12-15 10:20:00.000	2024-12-15 10:20:00.000
3	602475	BUTTON-DOWN SHIRT SM02152	2	2024-12-05 15:00:00.000	2024-12-05 15:00:00.000

Question 4: List of products in Pending mode (not success)

SQLQuery1.sql - L...3E2AC\Lenovo (80))* -> X

SELECTTransaction_ID,Customer_ID,Customer_ID,Total_Purchased,Pay_Method,Payment_StatusFROM Customer_ProductsWHERE Payment_Status = 0;

100 %

ResultsMessages

	Transaction_ID	Customer_ID	Customer_ID	Total_Purchased	Pay_Method	Payment_Status
1	63E21826-8AAE-45F5-8CC6-0F880C1733E6	2	2	2	Credit Card	0
2	53385996-3A17-4E5B-9AEA-209CEBF14454	15	15	3	Cash	0
3	FC605009-0CBC-49A4-A9C5-3B2736C9D8A8	3	3	3	Credit Card	0
4	FE80A65B-FC41-42C2-B558-7FC81A6B9BAE	11	11	2	Credit Card	0
5	3BEFED1C-C34F-4066-ACF3-C26C0CFC86E5	16	16	2	Credit Card	0

Question 5: What is product that cost the most money in storage ?

SQLQuery1.sql - L...3E2AC\Lenovo (80))* -> X

SELECT TOP (1)Product_ID,Product_Name,Price,Quantity,(Price * Quantity) AS Inventory_ValueFROM ProductsORDER BY Inventory_Value DESC;

100 %

ResultsMessages

	Product_ID	Product_Name	Price	Quantity	Inventory_Value
1	982278	LACE BOW COLLAR SHIRT SM00022	60	42	2520

Question 6: Total revenue in each months in year 2024

SQLQuery1.sql - L...3E2AC\Lenovo (80))* -p X

SELECT

MONTH(Purchased_Date) AS Month,

SUM(p.Price * cp.Total_Purchased) AS Total_Revenue,

COUNT(cp.Transaction_ID) as Number_of_Transactions

FROM Customer_Products cp

JOIN Products p ON cp.Product_ID = p.Product_ID

WHERE YEAR(Purchased_Date) = 2024

GROUP BY MONTH(Purchased_Date)

ORDER BY Month;

100 %

Results

Messages

	Month	Total_Revenue	Number_of_Transactions
1	4	136	2
2	5	30	2
3	6	30	1
4	9	66	1
5	10	110	1
6	11	45	1
7	12	455	5

Question 7: What's the gender distribution of customers buying products priced above the average product price, and what's their preferred payment method?

SQLQuery1.sql - L...3E2AC\Lenovo (80))*

WITH AvgPriceProducts AS (

SELECT AVG(Price) AS AvgPrice

FROM Products

)

SELECT

CASE

WHEN c.Gender = 1 THEN 'Female'

ELSE 'Male'

END AS Gender,

cp.Pay_Method,

COUNT(DISTINCT c.ID) AS Number_of_Customers,

COUNT(*) AS Number_of_Purchases,

SUM(cp.Total_Purchased) AS Total_Items_Purchased

FROM Customer c

JOIN Customer_Products cp ON c.ID = cp.Customer_ID

JOIN Products p ON cp.Product_ID = p.Product_ID

CROSS JOIN AvgPriceProducts ap

WHERE p.Price > ap.AvgPrice

GROUP BY

c.Gender,

cp.Pay_Method

ORDER BY Gender, Number_of_Purchases DESC;

100 %

Results

Messages

	Gender	Pay_Method	Number_of_Customers	Number_of_Purchases	Total_Items_Purchased
1	Female	Credit Card	3	3	5
2	Female	Debit Card	2	2	2
3	Female	Cash	1	1	1
4	Male	Credit Card	1	1	1
5	Male	Debit Card	1	1	2
6	Male	Cash	1	1	2

Question 8: What are the 5 cheapest products in our store and their current quantity in stock?

SQLQuery1.sql - L...3E2AC\Lenovo (80))*

SELECT TOP (5)

Product_Name,

Price,

Quantity AS Stock_Quantity,

Size

FROM Products

ORDER BY Price ASC;

100 %

Results

Messages

	Product_Name	Price	Stock_Quantity	Size
1	HIGH-WAIST SHORTS Q14062	8	19	M
2	STRAIGHT-LEG PANTS Q40582	10	69	XL
3	CARGO PANT D69696	12	42	L
4	BLACK SHORT Q00782	15	86	XXL
5	PLEATED SKIRT LIZ16382	20	17	L

Questions

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Question 9: Which products have been purchased using Credit Card?

```
SELECT DISTINCT
    p.Product_Name,
    p.Price,
    cp.Payment_Method,
    cp.Purchased_Date
FROM Products p
JOIN Customer_Products cp ON p.Product_ID = cp.Product_ID
WHERE cp.Payment_Method = 'Credit Card'
ORDER BY cp.Purchased_Date DESC;
```

00 %

Results

Messages

	Product_Name	Price	Payment_Method	Purchased_Date
1	LEATHER JACKET J00292	120	Credit Card	2024-12-16 12:40:00.000
2	BUTTON-DOWN SHIRT SM02152	25	Credit Card	2024-12-05 15:00:00.000
3	FLORAL PRINT DRESS D20202	45	Credit Card	2024-11-20 11:50:00.000
4	HIGH-WAIST SHORTS Q14062	8	Credit Card	2024-04-18 13:40:00.000
5	LACE BOW COLLAR SHIRT SM00022	60	Credit Card	2024-04-15 10:30:00.000
6	PEPLUM DRESS D01932	50	Credit Card	2023-08-22 14:30:00.000
7	DESIGNER SKIRT Z18362	30	Credit Card	2021-03-12 08:50:00.000
8	3D FLOWER SLEEVE SHIRT SM01822	40	Credit Card	2014-01-22 09:45:00.000
9	CARGO PANT D69696	12	Credit Card	2011-04-20 12:00:00.000

Question 10: Who are our customers from Da Nang city and what have they purchased?

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SQLQuery1.sql - L...3E2AC\Lenovo (61)) * -> X
SELECT
    c.Name AS Customer_Name,
    c.Phone,
    c.Name,
    p.Price,
    cp.Total_Purchased,
    cp.Purchased_Date
FROM Customer c
JOIN Customer_Products cp ON c.ID = cp.Customer_ID
JOIN Products p ON p.Product_ID = cp.Product_ID
WHERE c.Address LIKE '%Da Nang%'
ORDER BY cp.Purchased_Date DESC;
```

100 %

Results Messages

	Customer_Name	Phone	Name	Price	Total_Purchased	Purchased_Date
1	Nguyen Bich Ngoc	0988823569	Nguyen Bich Ngoc	66	1	2024-09-10 09:15:00.000
2	Bui Phuong Linh	0985378953	Bui Phuong Linh	20	1	2024-05-05 15:25:00.000