

CODING CHALLENGE – ECOMMERCE SQL

AKANSHA SINGH

-- Create a database "ecom" create

database ecom;

use ecom;



```
-- create database ecom;
use ecom;
```

0 %

Messages

Commands completed successfully.

Completion time: 2024-09-19T16:19:56.6958945+05:30

-- Create table customer

CREATE TABLE customer (

customerID INT PRIMARY KEY,

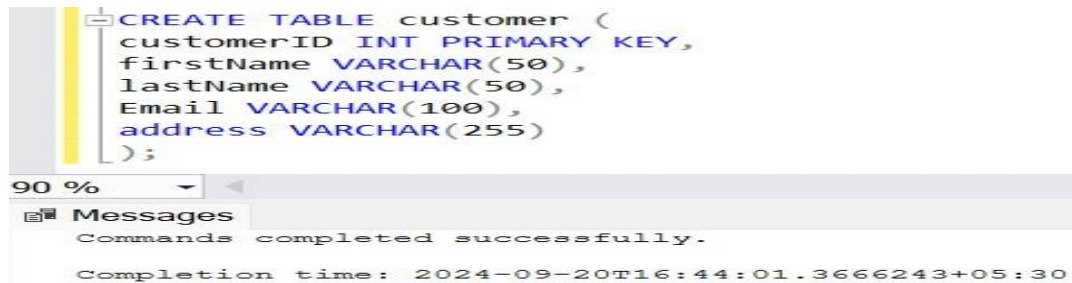
firstName VARCHAR(50),

lastName VARCHAR(50),

Email VARCHAR(100), address

VARCHAR(255)

);



```
CREATE TABLE customer (
  customerID INT PRIMARY KEY,
  firstName VARCHAR(50),
  lastName VARCHAR(50),
  Email VARCHAR(100),
  address VARCHAR(255)
);
```

90 %

Messages

Commands completed successfully.

Completion time: 2024-09-20T16:44:01.3666243+05:30

-- Create table product CREATE

TABLE product (productID INT

PRIMARY KEY, name

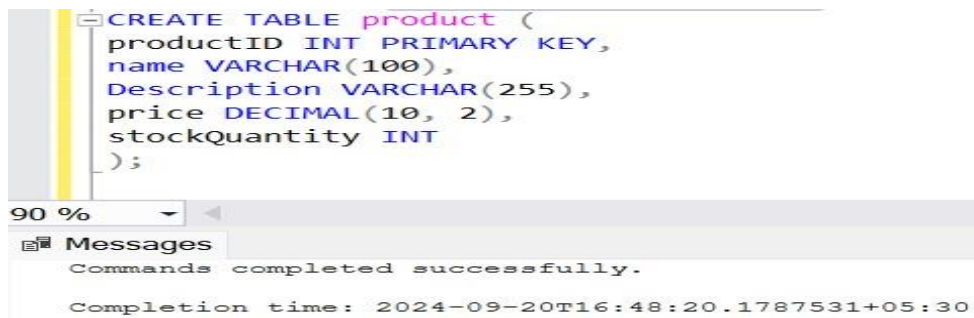
VARCHAR(100), Description

VARCHAR(255), price

DECIMAL(10, 2), stockQuantity

INT

);



```
CREATE TABLE product (  
  productID INT PRIMARY KEY,  
  name VARCHAR(100),  
  Description VARCHAR(255),  
  price DECIMAL(10, 2),  
  stockQuantity INT  
);
```

90 %

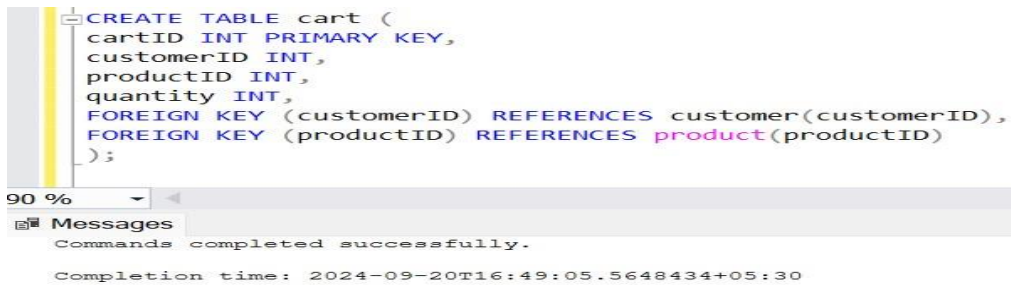
Messages

Commands completed successfully.

Completion time: 2024-09-20T16:48:20.1787531+05:30

-- Create table cart

```
CREATE TABLE cart (  
  
  cartID INT PRIMARY KEY,  
  
  customerID INT,  
  
  productID INT, quantity  
  
  INT,  
  
  FOREIGN KEY (customerID) REFERENCES customer(customerID),  
  
  FOREIGN KEY (productID) REFERENCES product(productID)  
  
);
```



```
CREATE TABLE cart (  
  cartID INT PRIMARY KEY,  
  customerID INT,  
  productID INT,  
  quantity INT,  
  FOREIGN KEY (customerID) REFERENCES customer(customerID),  
  FOREIGN KEY (productID) REFERENCES product(productID)  
);
```

90 %

Messages

Commands completed successfully.

Completion time: 2024-09-20T16:49:05.5648434+05:30

-- Create table orders CREATE

```
TABLE orders( orderID INT  
  
  PRIMARY KEY, customerID  
  
  INT, orderDate DATE,  
  
  totalAmount DECIMAL(10, 2),  
  
  FOREIGN KEY (customerID) REFERENCES customer(customerID)  
  
);
```

--

```
CREATE TABLE orders(  
  orderID INT PRIMARY KEY,  
  customerID INT,  
  orderDate DATE,  
  totalAmount DECIMAL(10, 2),  
  FOREIGN KEY (customerID) REFERENCES customer(customerID)  
);
```

10 %
Messages
Commands completed successfully.
Completion time: 2024-09-20T16:49:52.1171114+05:30

Create table orderitems

```
CREATE TABLE orderitems (  
  orderItemID INT PRIMARY KEY,  
  orderID INT, productID INT,  
  quantity INT,  
  itemAmount DECIMAL(10, 2),  
  FOREIGN KEY (orderID) REFERENCES orders(orderID),  
  FOREIGN KEY (productID) REFERENCES product(productID)  
);
```

```
CREATE TABLE orderitems (  
  orderItemID INT PRIMARY KEY,  
  orderID INT,  
  productID INT,  
  quantity INT,  
  itemAmount DECIMAL(10, 2),  
  FOREIGN KEY (orderID) REFERENCES orders(orderID),  
  FOREIGN KEY (productID) REFERENCES product(productID)  
);
```

90 %
Messages
Commands completed successfully.
Completion time: 2024-09-20T16:50:59.6483488+05:30

-- insert values in table customer

```
INSERT INTO customer (customerID, firstName, lastName, Email, address) VALUES  
(1, 'John', 'Doe', 'johndoe@example.com', '123 Main St, City'),  
(2, 'Jane', 'Smith', 'janesmith@example.com', '456 Elm St, Town'),  
(3, 'Robert', 'Johnson', 'robert@example.com', '789 Oak St, Village'),  
(4, 'Sarah', 'Brown', 'sarah@example.com', '101 Pine St, Suburb'),  
(5, 'David', 'Lee', 'david@example.com', '234 Cedar St, District'),  
(6, 'Laura', 'Hall', 'laura@example.com', '567 Birch St, County'),  
(7, 'Michael', 'Davis', 'michael@example.com', '890 Maple St, State'),  
(8, 'Emma', 'Wilson', 'emma@example.com', '321 Redwood St, Country'),  
(9, 'William', 'Taylor', 'william@example.com', '432 Spruce St, Province'), (10,  
'Olivia', 'Adams', 'olivia@example.com', '765 Fir St, Territory');
```

```
INSERT INTO customer (customerID, firstName, lastName, Email, address) VALUES
(1, 'John', 'Doe', 'johndoe@example.com', '123 Main St, City'),
(2, 'Jane', 'Smith', 'janesmith@example.com', '456 Elm St, Town'),
(3, 'Robert', 'Johnson', 'robert@example.com', '789 Oak St, Village'),
(4, 'Sarah', 'Brown', 'sarah@example.com', '101 Pine St, Suburb'),
(5, 'David', 'Lee', 'david@example.com', '234 Cedar St, District'),
(6, 'Laura', 'Hall', 'laura@example.com', '567 Birch St, County'),
(7, 'Michael', 'Davis', 'michael@example.com', '890 Maple St, State'),
(8, 'Emma', 'Wilson', 'emma@example.com', '321 Redwood St, Country'),
(9, 'William', 'Taylor', 'william@example.com', '432 Spruce St, Province'),
(10, 'Olivia', 'Adams', 'olivia@example.com', '765 Fir St, Territory');
```

90 %

Messages

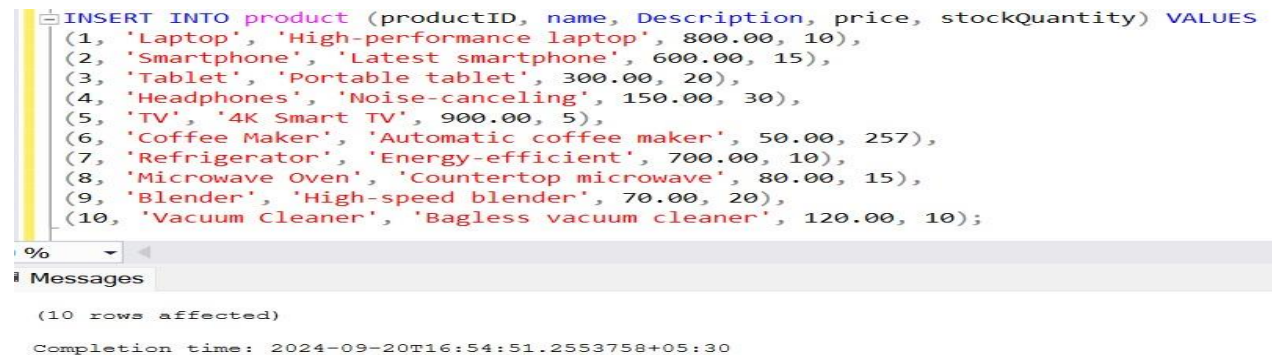
(10 rows affected)

Completion time: 2024-09-20T16:53:29.4467679+05:30

--

insert values in table product

```
INSERT INTO product (productID, name, Description, price, stockQuantity) VALUES
(1, 'Laptop', 'High-performance laptop', 800.00, 10),
(2, 'Smartphone', 'Latest smartphone', 600.00, 15),
(3, 'Tablet', 'Portable tablet', 300.00, 20),
(4, 'Headphones', 'Noise-canceling', 150.00, 30),
(5, 'TV', '4K Smart TV', 900.00, 5),
(6, 'Coffee Maker', 'Automatic coffee maker', 50.00, 257),
(7, 'Refrigerator', 'Energy-efficient', 700.00, 10),
(8, 'Microwave Oven', 'Countertop microwave', 80.00, 15),
(9, 'Blender', 'High-speed blender', 70.00, 20),
(10, 'Vacuum Cleaner', 'Bagless vacuum cleaner', 120.00, 10);
```



```
INSERT INTO product (productID, name, Description, price, stockQuantity) VALUES
(1, 'Laptop', 'High-performance laptop', 800.00, 10),
(2, 'Smartphone', 'Latest smartphone', 600.00, 15),
(3, 'Tablet', 'Portable tablet', 300.00, 20),
(4, 'Headphones', 'Noise-canceling', 150.00, 30),
(5, 'TV', '4K Smart TV', 900.00, 5),
(6, 'Coffee Maker', 'Automatic coffee maker', 50.00, 257),
(7, 'Refrigerator', 'Energy-efficient', 700.00, 10),
(8, 'Microwave Oven', 'Countertop microwave', 80.00, 15),
(9, 'Blender', 'High-speed blender', 70.00, 20),
(10, 'Vacuum Cleaner', 'Bagless vacuum cleaner', 120.00, 10);
```

Messages

(10 rows affected)

Completion time: 2024-09-20T16:54:51.2553758+05:30

-- insert values in table cart

```
INSERT INTO cart (cartID, customerID, productID, quantity) VALUES
(1, 1, 1, 2),
(2, 1, 3, 1),
(3, 2, 2, 3),
(4, 3, 4, 4),
(5, 3, 5, 2),
(6, 4, 6, 1),
(7, 5, 1, 1),
(8, 6, 10, 2), (9,
6, 9, 3),
(10, 7, 2, 2);
```

--

```
INSERT INTO cart (cartID, customerID, productID, quantity) VALUES
(1, 1, 1, 2),
(2, 1, 3, 1),
(3, 2, 2, 3),
(4, 3, 4, 4),
(5, 3, 5, 2),
(6, 4, 6, 1),
(7, 5, 1, 1),
(8, 6, 10, 2),
(9, 6, 9, 3),
(10, 7, 2, 2);
```

90 %

Messages

(10 rows affected)

Completion time: 2024-09-20T16:56:05.8750179+05:30

insert values in table orders

```
INSERT INTO orders (orderID, customerID, orderDate, totalAmount) VALUES
(1, 1, '2023-01-05', 1200.00),
(2, 2, '2023-02-10', 900.00),
(3, 3, '2023-03-15', 300.00),
(4, 4, '2023-04-20', 150.00),
(5, 5, '2023-05-25', 1800.00),
(6, 6, '2023-06-30', 400.00),
(7, 7, '2023-07-05', 700.00),
(8, 8, '2023-08-10', 160.00),
(9, 9, '2023-09-15', 140.00),
(10, 10, '2023-10-20', 1400.00);
```

```
INSERT INTO orders (orderID, customerID, orderDate, totalAmount) VALUES
(1, 1, '2023-01-05', 1200.00),
(2, 2, '2023-02-10', 900.00),
(3, 3, '2023-03-15', 300.00),
(4, 4, '2023-04-20', 150.00),
(5, 5, '2023-05-25', 1800.00),
(6, 6, '2023-06-30', 400.00),
(7, 7, '2023-07-05', 700.00),
(8, 8, '2023-08-10', 160.00),
(9, 9, '2023-09-15', 140.00),
(10, 10, '2023-10-20', 1400.00);
```

0 %

Messages

(10 rows affected)

Completion time: 2024-09-20T16:56:56.5866061+05:30

-- insert values in table orderitems

```
INSERT INTO orderitems (orderItemID, orderID, productID, quantity, itemAmount) VALUES (1,
1, 1, 2, 1600.00),
(2, 1, 3, 1, 300.00),
(3, 2, 2, 3, 1800.00),
(4, 3, 5, 2, 1800.00),
(5, 4, 4, 4, 600.00),
(6, 4, 6, 1, 50.00),
(7, 5, 1, 1, 800.00),
(8, 5, 2, 2, 1200.00),
(9, 6, 10, 2, 240.00),
```

--

(10, 6, 9, 3, 210.00);

```
INSERT INTO orderitems (orderItemID, orderID, productID, quantity, itemAmount) VALUES
(1, 1, 1, 2, 1600.00),
(2, 1, 3, 1, 300.00),
(3, 2, 2, 3, 1800.00),
(4, 3, 5, 2, 1800.00),
(5, 4, 4, 4, 600.00),
(6, 4, 6, 1, 50.00),
(7, 5, 1, 1, 800.00),
(8, 5, 2, 2, 1200.00),
(9, 6, 10, 2, 240.00),
(10, 6, 9, 3, 210.00);
```

0 %

Messages

(10 rows affected)

Completion time: 2024-09-20T16:57:42.5274320+05:30

1) Update refrigerator product price to 800.

UPDATE product

SET price = 800.00

WHERE productID = 7;

```
UPDATE product
SET price = 800.00
WHERE productID = 7;
```

0 %

Messages

(1 row affected)

Completion time: 2024-09-20T16:59:44.4223480+05:30

Results		Messages			
	productID	name	Description	price	stockQuantity
1	1	Laptop	High-performance laptop	800.00	10
2	2	Smartphone	Latest smartphone	600.00	15
3	3	Tablet	Portable tablet	300.00	20
4	4	Headphones	Noise-canceling	150.00	30
5	5	TV	4K Smart TV	900.00	5
6	6	Coffee Maker	Automatic coffee maker	50.00	257
7	7	Refrigerator	Energy-efficient	800.00	10
8	8	Microwave Oven	Countertop microwave	80.00	15
9	9	Blender	High-speed blender	70.00	20
10	10	Vacuum Clean...	Bagless vacuum cleaner	120.00	10

-- 2) Remove all cart items for a specific customer.

DELETE FROM cart

WHERE customerID = 3;

--

DELETE FROM cart

WHERE customerID = 3;

90 %

Messages

(2 rows affected)

Completion time: 2024-09-20T17:01:25.6400251+05:30

Results

Messages

	cartID	customerID	productID	quantity
1	1	1	1	2
2	2	1	3	1
3	3	2	2	3
4	6	4	6	1
5	7	5	1	1
6	8	6	10	2
7	9	6	9	3
8	10	7	2	2

3) Retrieve Products Priced Below \$100.

```
SELECT *  
FROM product  
WHERE price < 100.00;
```

SELECT * FROM product

WHERE price < 100.00;

90 %

Results

Messages

	productID	name	Description	price	stockQuantity
1	6	Coffee Maker	Automatic coffee maker	50.00	257
2	8	Microwave Oven	Countertop microwave	80.00	15
3	9	Blender	High-speed blender	70.00	20

-- 4) Find Products with Stock Quantity Greater Than 5.

```
SELECT *  
FROM product  
WHERE stockQuantity > 5;
```


--

```
SELECT * FROM product  
WHERE stockQuantity > 5;
```

90 %					
Results Messages					
	productID	name	Description	price	stockQuantity
1	1	Laptop	High-performance laptop	800.00	10
2	2	Smartphone	Latest smartphone	600.00	15
3	3	Tablet	Portable tablet	300.00	20
4	4	Headphones	Noise-canceling	150.00	30
5	6	Coffee Maker	Automatic coffee maker	50.00	257
6	7	Refrigerator	Energy-efficient	800.00	10
7	8	Microwave Oven	Countertop microwave	80.00	15
8	9	Blender	High-speed blender	70.00	20
9	10	Vacuum Cleaner	Bagless vacuum cleaner	120.00	10

-- 5) Retrieve Orders with Total Amount Between \$500 and \$1000.

SELECT *

FROM orders

WHERE totalAmount BETWEEN 500.00 AND 1000.00;

```
SELECT * FROM orders  
WHERE totalAmount BETWEEN 500.00 AND 1000.00;
```

0 %				
Results Messages				
	orderID	customerID	orderDate	totalAmount
1	2	2	2023-02-10	900.00
2	7	7	2023-07-05	700.00

6) Find Products which name end with letter 'r'.

SELECT name

FROM product

WHERE name LIKE '%r';

```
SELECT name  
FROM product  
WHERE name LIKE '%r';
```

90 %	
Results Messages	
	name
1	Coffee Maker
2	Refrigerator
3	Blender
4	Vacuum Cleaner

--7) Retrieve Cart Items for Customer 5.

SELECT *

FROM cart

WHERE customerID = 5;

--

```
SELECT *
FROM cart
WHERE customerID = 5;
```

Results Messages

	cartID	customerID	productID	quantity
1	7	5	1	1

-- 8) Find Customers Who Placed Orders in 2023.

```
SELECT DISTINCT c.customerID, c.firstName, c.lastName, c.email
```

```
FROM customer c
```

```
INNER JOIN orders o ON c.customerID = o.customerID
```

```
WHERE YEAR(o.orderDate) = 2023;
```

```
SELECT DISTINCT c.customerID, c.firstName, c.lastName, c.email
FROM customer c
INNER JOIN orders o ON c.customerID = o.customerID
WHERE YEAR(o.orderDate) = 2023;
```

Results Messages

	customerID	firstName	lastName	email
1	1	John	Doe	johndoe@example.com
2	2	Jane	Smith	janesmith@example.com
3	3	Robert	Johnson	robert@example.com
4	4	Sarah	Brown	sarah@example.com
5	5	David	Lee	david@example.com
6	6	Laura	Hall	laura@example.com
7	7	Michael	Davis	michael@example.com
8	8	Emma	Wilson	emma@example.com
9	9	William	Taylor	william@example.com
10	10	Olivia	Adams	olivia@example.com

9) Determine the Minimum Stock Quantity for Each Product Category.

```
SELECT p.productID, p.name AS productName, MIN(p.stockQuantity) AS MinStockQuantity
```

```
FROM product p
```

```
GROUP BY p.productID, p.name;
```

```
SELECT p.productID, p.name AS productName, MIN(p.stockQuantity) AS MinStockQuantity
FROM product p
GROUP BY p.productID, p.name;
```

Results Messages

	productID	productName	MinStockQuantity
1	1	Laptop	10
2	2	Smartphone	15
3	3	Tablet	20
4	4	Headphones	30
5	5	TV	5
6	6	Coffee Maker	257
7	7	Refrigerator	10
8	8	Microwave Oven	15
9	9	Blender	20
10	10	Vacuum Cleaner	10

-- 10) Calculate the Total Amount Spent by Each Customer.

```
SELECT c.customerID, c.firstName, c.lastName, SUM(oi.itemAmount) AS totalAmountSpent
```

--

FROM customer c

JOIN orders o ON c.customerID = o.customerID

JOIN orderitems oi ON o.orderID = oi.orderID

GROUP BY c.customerID, c.firstName, c.lastName;

```
SELECT c.customerID, c.firstName, c.lastName, SUM(oi.itemAmount) AS totalAmountSpent
FROM customer c
JOIN orders o ON c.customerID = o.customerID
JOIN orderitems oi ON o.orderID = oi.orderID
GROUP BY c.customerID, c.firstName, c.lastName;
```

	customerID	firstName	lastName	totalAmountSpent
1	1	John	Doe	1900.00
2	2	Jane	Smith	1800.00
3	3	Robert	Johnson	1800.00
4	4	Sarah	Brown	650.00
5	5	David	Lee	2000.00
6	6	Laura	Hall	450.00

-- 11) Find the Average Order Amount for Each Customer.

SELECT o.customerID, c.firstName, c.lastName, AVG(oi.itemAmount) AS averageOrderAmount

FROM orders o

JOIN orderitems oi ON o.orderID = oi.orderID

JOIN customer c ON o.customerID = c.customerID

GROUP BY o.customerID, c.firstName, c.lastName;

```
SELECT o.customerID, c.firstName, c.lastName, AVG(oi.itemAmount) AS averageOrderAmount
FROM orders o
JOIN orderitems oi ON o.orderID = oi.orderID
JOIN customer c ON o.customerID = c.customerID
GROUP BY o.customerID, c.firstName, c.lastName;
```

	customerID	firstName	lastName	averageOrderAmount
1	1	John	Doe	950.000000
2	2	Jane	Smith	1800.000000
3	3	Robert	Johnson	1800.000000
4	4	Sarah	Brown	325.000000
5	5	David	Lee	1000.000000
6	6	Laura	Hall	225.000000

12) Count the Number of Orders Placed by Each Customer.

SELECT o.customerID, c.firstName, c.lastName, COUNT(o.orderID) AS numberOfOrders FROM

orders o

JOIN customer c ON o.customerID = c.customerID

GROUP BY o.customerID, c.firstName, c.lastName;

--

```
SELECT o.customerID, c.firstName, c.lastName, COUNT(o.orderID) AS numberOfOrders
FROM orders o
JOIN customer c ON o.customerID = c.customerID
GROUP BY o.customerID, c.firstName, c.lastName;
```

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Results Messages

	customerID	firstName	lastName	numberOfOrders
1	1	John	Doe	1
2	2	Jane	Smith	1
3	3	Robert	Johnson	1
4	4	Sarah	Brown	1
5	5	David	Lee	1
6	6	Laura	Hall	1
7	7	Michael	Davis	1
8	8	Emma	Wilson	1
9	9	William	Taylor	1
10	10	Olivia	Adams	1

-- 13) Find the Maximum Order Amount for Each Customer.

```
SELECT o.customerID, c.firstName, c.lastName, MAX(oi.itemAmount) AS maxOrderAmount
```

```
FROM orders o
```

```
JOIN orderitems oi ON o.orderID = oi.orderID
```

```
JOIN customer c ON o.customerID = c.customerID
```

```
GROUP BY o.customerID, c.firstName, c.lastName;
```

```
SELECT o.customerID, c.firstName, c.lastName, MAX(oi.itemAmount) AS maxOrderAmount
FROM orders o
JOIN orderitems oi ON o.orderID = oi.orderID
JOIN customer c ON o.customerID = c.customerID
GROUP BY o.customerID, c.firstName, c.lastName;
```

90 %

Results Messages

	customerID	firstName	lastName	maxOrderAmount
1	1	John	Doe	1600.00
2	2	Jane	Smith	1800.00
3	3	Robert	Johnson	1800.00
4	4	Sarah	Brown	600.00
5	5	David	Lee	1200.00
6	6	Laura	Hall	240.00

-- 14) Get Customers Who Placed Orders Totaling Over \$1000.

```
SELECT c.customerID, c.firstName, c.lastName, SUM(o.totalAmount) AS totalAmount
```

```
FROM customer c
```

```
JOIN orders o ON c.customerID = o.customerID
```

```
GROUP BY c.customerID, c.firstName, c.lastName
```

```
HAVING SUM(o.totalAmount) > 1000;
```

```

SELECT c.customerID, c.firstName, c.lastName, SUM(o.totalAmount) AS totalAmount
FROM customer c
JOIN orders o ON c.customerID = o.customerID
GROUP BY c.customerID, c.firstName, c.lastName
HAVING SUM(o.totalAmount) > 1000;

```

90 %

Results Messages

	customerID	firstName	lastName	totalAmount
1	1	John	Doe	1200.00
2	5	David	Lee	1800.00
3	10	Olivia	Adams	1400.00

-- 15) Subquery to Find Products Not in the Cart.

```

SELECT *
FROM product
WHERE productID NOT IN (
SELECT DISTINCT productID
FROM cart );

```

```

SELECT * FROM product
WHERE productID NOT IN (
SELECT DISTINCT productID
FROM cart );

```

90 %

Results Messages

	productID	name	Description	price	stockQuantity
1	4	Headphones	Noise-canceling	150.00	30
2	5	TV	4K Smart TV	900.00	5
3	7	Refrigerator	Energy-efficient	800.00	10
4	8	Microwave Oven	Countertop microwave	80.00	15

-- 16) Subquery to Find Customers Who Haven't Placed Orders.

```

SELECT *
FROM customer
WHERE customerID NOT IN (
SELECT DISTINCT customerID
FROM orders );

```

```

SELECT * FROM customer
WHERE customerID NOT IN (
SELECT DISTINCT customerID
FROM orders );

```

90 %

Results Messages

customerID	firstName	lastName	Email	address
------------	-----------	----------	-------	---------

-- 17) Subquery to Calculate the Percentage of Total Revenue for a Product.

```
SELECT p.productID, p.name, (SUM(oi.itemAmount) / (SELECT SUM(itemAmount) FROM orderitems)) * 100  
AS revenuePercentage
```

```
FROM orderitems oi
```

```
JOIN product p ON oi.productID = p.productID
```

```
GROUP BY p.productID, p.name;
```

```
SELECT p.productID, p.name, (SUM(oi.itemAmount) / (SELECT SUM(itemAmount) FROM orderitems)) * 100 AS revenuePercentage  
FROM orderitems oi  
JOIN product p ON oi.productID = p.productID  
GROUP BY p.productID, p.name;
```

90 %

Results Messages

	productID	name	revenuePercentage
1	1	Laptop	27.906900
2	2	Smartphone	34.883700
3	3	Tablet	3.488300
4	4	Headphones	6.976700
5	5	TV	20.930200
6	6	Coffee Maker	0.581300
7	9	Blender	2.441800
8	10	Vacuum Cleaner	2.790600

-- 18) Subquery to Find Products with Low Stock.

```
SELECT * FROM product
```

```
WHERE stockQuantity < ( SELECT AVG(stockQuantity) * 0.2 FROM product );
```

```
SELECT * FROM product  
WHERE stockQuantity < ( SELECT AVG(stockQuantity) * 0.2 FROM product );
```

10 %

Results Messages

	productID	name	Description	price	stockQuantity
1	5	TV	4K Smart TV	900.00	5

-- 19) Subquery to Find Customers Who Placed High-Value Orders.

```
SELECT customerID, firstName, lastName FROM customer
```

```
WHERE customerID IN (SELECT customerID FROM orders
```

```
WHERE totalAmount > 1000);
```

```
SELECT * FROM customer  
WHERE customerID IN ( SELECT o.customerID FROM orders o  
JOIN ( SELECT orderID, SUM(itemAmount) AS totalAmount FROM orderitems  
GROUP BY orderID ) AS order_total ON o.orderID = order_total.orderID  
WHERE order_total.totalAmount > 1000 );
```

90 %

Results Messages

	customerID	firstName	lastName	Email	address
1	1	John	Doe	johndoe@example.com	123 Main St, City
2	2	Jane	Smith	janesmith@example.com	456 Elm St, Town
3	3	Robert	Johnson	robert@example.com	789 Oak St, Village
4	5	David	Lee	david@example.com	234 Cedar St, District