

DAY 2 ASSIGNMENT

- HARSHINI V

-- Create a database "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)
);
```

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
);
```

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)
);
```

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)
);
```

90 %

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)  
);
```

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');
```

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);
```

%

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);
```

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);
```

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);
```

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;
```

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;
```

90 %

Messages

(2 rows affected)

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

	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;
```

	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;
```

	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;
```

	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';
```

	name
1	Coffee Maker
2	Refrigerator
3	Blender
4	Vacuum Cleaner

--7) Retrieve Cart Items for Customer 5.

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

Results				
	cartID	customerID	productID	quantity
1	7	5	1	1

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

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

	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

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

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

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