

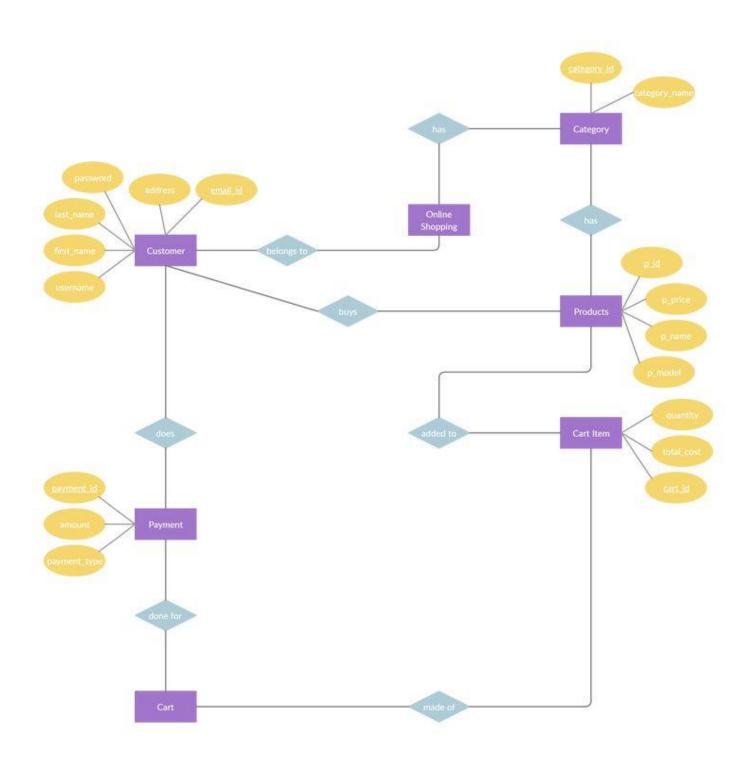
TITLE: DROPSHIPPING BUSINESS WEBSITE (SHOPIFY)

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Assignment 1

Problem Statement: - Creating a MySQL project for Drop shipping business which is like a website like (Shopify) in which we can sell any product from the owner and get it's token for like 10-20%. It's more like a side business.

ER-Diagram:



Database Schema:-

1. Customers table:

Customer_id, First_name, Last_name, Email, Phone_number

Q.

	customer_id	first_name	last_name	email	phone_number
•	1	John	Doe	john.doe@example.com	+1234567890
	2	Jane	Smith	jane.smith@example.com	+9876543210
	3	Alice	Johnson	alice.johnson@example.com	+5551234567
	4	Michael	Brown	michael.brown@example.com	+8887654321
	5	David	Miller	david.miller@example.com	+4443210987
	6	Sarah	Garcia	sarah.garcia@example.com	+3332109876
	7	Emily	Clark	emily.clark@example.com	+2221098765
	8	Matthew	Lewis	matthew.lewis@example.com	+1110987654
	9	Jennifer	Robinson	jennifer.robinson@example.com	+9990876543
	10	Daniel	Williams	daniel.williams@example.com	+8880765432

2. Orders table:

Order_id, customer_id, order_date, order_total

	order_id	customer_id	order_date	order_total
•	1	1	2024-04-10	150.00
	2	2	2024-04-11	225.50
	3	3	2024-04-12	80.75
	4	4	2024-04-08	312.99
	5	5	2024-04-09	107,20
	6	6	2024-04-10	450.00
	7	7	2024-04-11	188.40
	8	8	2024-04-08	271.15
	9	9	2024-04-09	623.50
	10	10	2024-04-10	99.99

3. Products table:

Product_id, name, description, price, category, image_url

product_id	name	description	price	category	image_url
1	Blue Denim Jeans	Classic straight-leg denim jeans	49.99	Clothing	https://example.com/denimjeans.jpg
2	Cotton T-Shirt	Comfortable and stylish t-shirt	19.99	Clothing	https://example.com/tshirt.jpg
3	Running Shoes	Lightweight shoes for running and exercise	79.99	Footwear	https://example.com/runningshoes.jpg
4	Leather Wallet	Sleek and functional leather wallet	34.99	Accessories	https://example.com/wallet.jpg
5	Wireless Headphones	High-quality sound for music and calls	99.99	Electronics	https://example.com/headphones.jpg
6	Laptop Backpack	Durable backpack for carrying your laptop	54.99	Bags	https://example.com/backpack.jpg
7	Wristwatch	Stylish and functional wristwatch	89.99	Accessories	https://example.com/watch.jpg
8	Sunglasses	Protect your eyes from the sun in style	24.99	Accessories	https://example.com/sunglasses.jpg
9	Dress	Elegant dress for any occasion	74.99	Clothing	https://example.com/dress.jpg
10	Sports Bra	Supportive bra for workouts	29.99	Activewear	https://example.com/sportsbra.jpg

4. Order items table:

order_item_id, order_id, product_id, quantity

	1 9 11	1 11	1 1 1 1	111
	order_item_id	order_id	product_id	quantity
•	1	1	2	1
	2	2	4	2
	3	3	1	3
	4	4	7	1
	5	5	8	2
	6	6	3	1
	7	7	5	4
	8	8	6	2
	9	9	9	3
	10	10	10	1

Assignment 2

Questions:-

Let's consider only one table for generating 10 questions: -

Question 1: Retrieve first name of all the customers in the database.

Question: How to add column name 'age' in a table.

Question 3: Remove the column bag in the table customers.

Question 4: How to use WHERE clause in a table?

Question 5: Use AND clause in the following database.

Question 6: Use LIKE operator in the following database.

Question 7: Use NOT operator in the following database.

Question 8: Use OR operator in the following database.

Question 9: Use BETWEEN operators in the following database.

Question 10: Use IN operator in the following database.

Let's consider only two tables for generating 10 questions: -

Question1: How many total orders were placed in the last week?

Question 2: What are the top 3 most expensive products in the Myntraa catalogue?

Question 3: For a specific customer (ID 10), what are their past 5 orders?

Question 4: What is the average order value (total spent per order) in the last month?

Question 5: Which product categories have seen the most sales in total quantity?

Question 6: Find all customers who have placed an order in the last month but haven't placed any orders before that.

Question 7: List the first name, last name, and total number of orders placed for each customer.

Question 8: Which customer has placed the most orders?

Question 9: Find all the customers who have not placed any orders in the last month.

Question 10: Find all orders placed before a specific date.

Let's consider only three tables for generating 10 questions: -

Question 1: What is the average order value for orders placed on weekends?

Question 2: Find all orders with a total amount exceeding Rs. 2000 that were placed by customers whose first name starts with the letter "A".

Question 3: Find all orders placed between two specific dates.

Question 4: List the 10 most recent orders placed.

Question 5: Find all products with a specific product name.

Question 6: List the 5 most expensive products in the catalogue.

Question 7: What is the total revenue generated from orders placed on a specific day of the week?

Question 8: List the 10 most recent orders placed.

Question 9: Find all customers with a specific email address.

Question 10: What percentage of customers who have placed an order in the last 3 months haven't placed any orders before that period?

Assignment 3

Question 1: Retrieve first name of all the customers in the database.

Ans. To retrieve all the first name in database, you can use SELECT query on the 'customers' table.

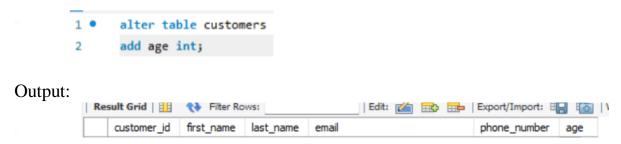


Output:



Question 2: How to add column name 'age' in a table.

Ans. To add column in a table we have to ALTER command.



Question 3: Remove the column bag in the table customers.

Ans. To remove a column bag in the table customers we need to use ALTER command.

```
1 • alter table customers
2 drop age;
```

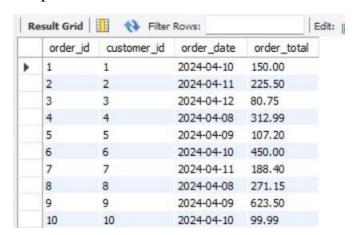
Output:

	customer_id	first_name	last_name	email	phone_number
Þ	1	John	Doe	john.doe@example.com	+1234567890
	2	Jane	Smith	jane.smith@example.com	+9876543210
	3	Alice	Johnson	alice.johnson@example.com	+5551234567
	4	Michael	Brown	michael.brown@example.com	+8887654321
	5	David	Miller	david.miller@example.com	+4443210987
	6	Sarah	Garcia	sarah.garcia@example.com	+3332109876
	7	Emily	Clark	emily.dark@example.com	+2221098765
	8	Matthew	Lewis	matthew.lewis@example.com	+1110987654
	9	Jennifer	Robinson	jennifer.robinson@example.com	+9990876543
	10	Daniel	Williams	daniel.williams@example.com	+8880765432

Question 4: How to use WHERE clause in a table?

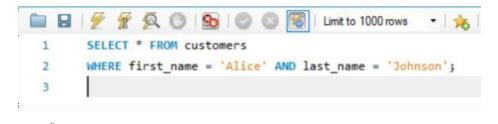
Ans.

```
• SELECT * FROM orders
WHERE order_date >= '2024-04-01';
```



Question 5: Use AND clause in the following database.

Ans.



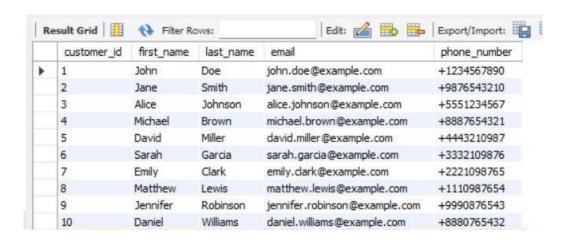
Output:



Question 6: Use LIKE operator in the following database.

Ans.

```
• SELECT * FROM customers
WHERE email NOT LIKE '%@gmail.com';
```



Question 7: Use NOT operator in the following database.

Ans.

```
1 • SELECT * FROM customers
2 WHERE phone_number NOT LIKE '888%';
3
```

Output:



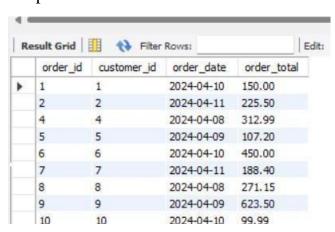
Question 8: Use OR operator in the following database.

Ans.

R	esult Grid	H 🙌 Filter	Rows:	Ec
	order_id	customer_id	order_date	order_total
٠	2	2	2024-04-11	225.50
	3	3	2024-04-12	80.75
	7	7	2024-04-11	188.40

Question 9: Use BETWEEN operators in the following database.

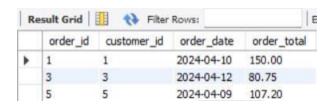
Ans.



Question 10: Use IN operator in the following database.

Ans.

```
1 • SELECT * FROM orders
2 WHERE customer_id IN (1, 3, 5);
3
```



Assignment 4

Question 1: How many total orders were placed in the last week? **Ans.**

```
SELECT COUNT(*) AS total_orders
FROM orders
WHERE order_date >= DATE_SUB(CURDATE(), INTERVAL 7 DAY);
```

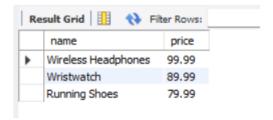
Output:



Question 2: What are the top 3 most expensive products in the Myntraa catalog?

Ans.

```
SELECT name, price
FROM products
ORDER BY price DESC
LIMIT 3;
```



Question 3: For a specific customer (ID 10), what are their past 5 orders? **Ans.**

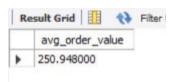
```
SELECT * FROM orders
WHERE customer_id = 10
ORDER BY order_date DESC
LIMIT 5;
```



Question 4: What is the average order value (total spent per order) in the last month?

Ans.

Output:



Question 5: Which product categories have seen the most sales in total quantity?

Ans.

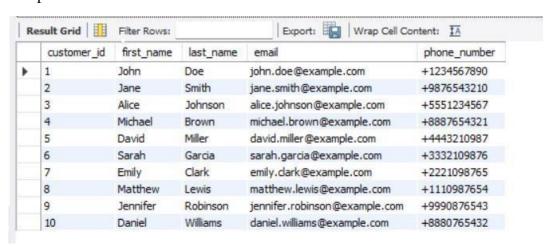


Question 6: Find all customers who have placed an order in the last month but haven't placed any orders before that.

Ans.

```
- 1 0 Q 1 P
  Limit to 1000 rows
 2 • G WITH NewCustomers AS (
         SELECT customer id
 3
         FROM orders
 4
         WHERE order_date >= DATE_SUB(CURDATE(), INTERVAL 1 MONTH)
 5
         GROUP BY customer_id
 6
 7
         HAVING COUNT(*) = 1
 8
 9
       -- Step 2: Find these new customers in all orders
       SELECT * FROM customers c
10

⊖ WHERE c.customer id IN (
11
12
         SELECT customer_id FROM NewCustomers
13
       )
    O AND c.customer_id NOT IN (
14
         SELECT customer_id FROM orders
15
         WHERE order_date < DATE_SUB(CURDATE(), INTERVAL 1 MONTH)
16
```

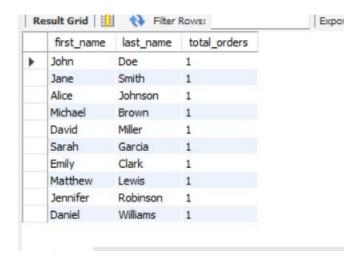


Question 7: List the first name, last name, and total number of orders placed for each customer.

Ans.

```
1 • SELECT c.first_name, c.last_name, COUNT(o.order_id) AS total_orders
2 FROM customers c
3 INNER JOIN orders o ON c.customer_id = o.customer_id
4 GROUP BY c.customer_id, c.first_name, c.last_name;
```

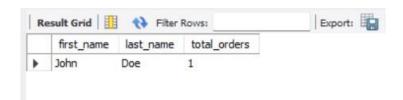
Output:



Question 8: Which customer has placed the most orders?

Ans.

```
SELECT c.first_name, c.last_name, COUNT(o.order_id) AS total_orders
FROM customers c
INNER JOIN orders o ON c.customer_id = o.customer_id
GROUP BY c.customer_id, c.first_name, c.last_name
ORDER BY total_orders DESC
LIMIT 1;
```



Question 9: Find all the customers who have not placed any orders in the last month.

Ans.

```
□ □ □ | F F Q □ | So | □ □ □ □ | Limit to 1000 rows

→ WITH AllCustomers AS (
 2
          SELECT customer id
          FROM customers
  3
  4
  5
        -- Step 2: Find customers with no recent orders
        SELECT * FROM AllCustomers c

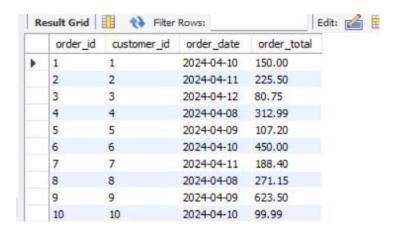
→ WHERE c.customer_id NOT IN (
 7
         SELECT customer_id FROM orders
  8
          WHERE order_date >= DATE_SUB(CURDATE(), INTERVAL 1 MONTH)
10
```

Output:



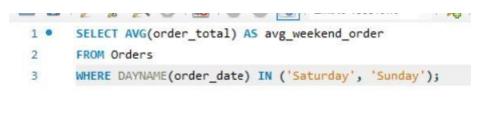
Question 10: Find all orders placed before a specific date.

Ans.

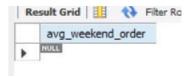


Assignment 5

Question 1: What is the average order value for orders placed on weekends? **Ans.**



Output:



Question 2: Find all orders with a total amount exceeding Rs. 2000 that were placed by customers whose first name starts with the letter "A".

Ans.

```
SELECT o.order_id, c.first_name, c.last_name, o.order_total
FROM Orders o
INNER JOIN Customers c ON o.customer_id = c.customer_id
WHERE o.order_total > 100
AND c.first_name LIKE 'A%';
```

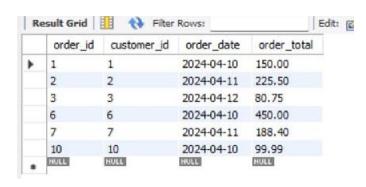


Question 3: Find all orders placed between two specific dates.

Ans.



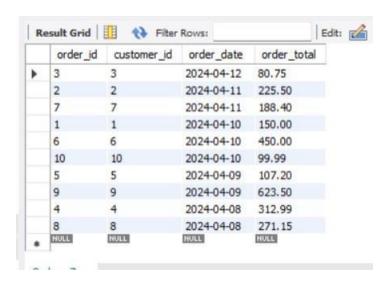
Output:



Question 4: List the 10 most recent orders placed.

Ans.

```
1 • SELECT * FROM Orders
2 ORDER BY order_date DESC
3 LIMIT 10;
```



Question 5: Find all products with a specific product name.

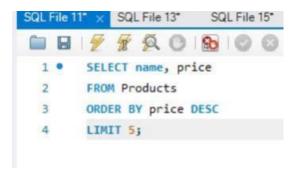
Ans.



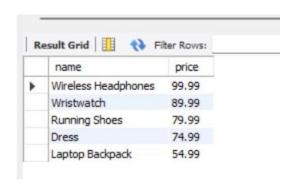


Question 6: List the 5 most expensive products in the catalogue.

Ans.



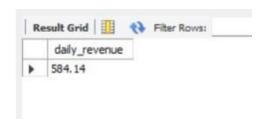
Output:



Question 7: What is the total revenue generated from orders placed on a specific day of the week?

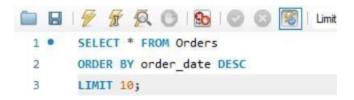
Ans.

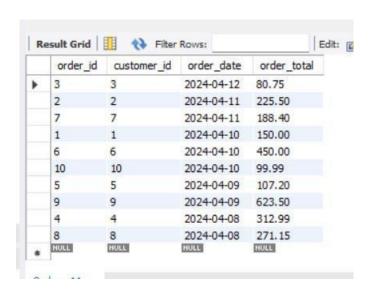
```
1 • SELECT SUM(order_total) AS daily_revenue
2 FROM Orders
3 WHERE DAYNAME(order_date) = 'Monday';
```



Question 8: List the 10 most recent orders placed.

Ans.

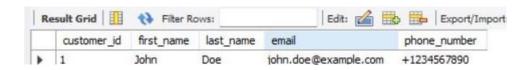




Question 9: Find all customers with a specific email address.

Ans.

Output:



Question 10: What percentage of customers who have placed an order in the last 3 months haven't placed any orders before that period?

Ans.

```
1 ● ⊖ WITH AllOrders AS (
      SELECT customer_id
 2
       FROM Orders
   RecentOrders AS (
 6
      SELECT customer_id
      WHERE order_date >= DATE_SUB(CURDATE(), INTERVAL 3 MONTH)
 8
 9
     SELECT (ROUND((COUNT(RecentOrders.customer_id) / COUNT(DISTINCT AllOrders.customer_id)) * 100, 2)) AS new_customer_percentage
10
11
        FROM RecentOrders
12
        INNER JOIN AllOrders ON RecentOrders.customer_id = AllOrders.customer_id
13
        GROUP BY RecentOrders.customer_id
        HAVING COUNT(AllOrders.customer_id) = 1;
14
```

