SQL TEST

-- Q1. Find all orders placed on '2023-04-10'.

SELECT \*

FROM orders

WHERE OrderDate = '2023-04-10';

**# OrderID CustomerID OrderDate TotalAmount**

**2 2 2023-04-10 599.99**

-- Q2. Find the total quantity of each product sold.

SELECT productid, productname, SUM(stockquantity) AS total\_quantity

FROM products

GROUP BY productid;

**# productid productname total\_quantity**

**1 Laptop 50**

**2 Smartphone 200**

**3 Tablet 150**

**-- Q3**. List the names of customers who have placed an order with a total amount greater than $1000.

SELECT c.firstname , c.lastname , o.totalamount

FROM customers c

INNER JOIN orders o ON c.customerid = o.customerid

WHERE o.totalamount > 1000

GROUP BY c.firstname , c.lastname , o.totalamount ;

**# firstname, lastname, totalamount**

**John, Doe, 1599.98**

**-- Q4**. Get the average rating for each product.

select avg(r.rating), p.productname

from products p

join reviews r

on p.productid = r.productid

group by r.rating , p. productname ;

**# avg(r.rating), productname**

**5.0000, Laptop**

**4.0000, Smartphone**

**-- Q5.** Find the most recent order date for each customer.

SELECT c.firstname, c.lastname , MAX(o.orderdate) AS most\_recent\_order\_date

FROM customers c

LEFT JOIN orders o ON c.customerid = o.customerid

GROUP BY c.firstname , c.lastname

order by most\_recent\_order\_date desc;

**# firstname, lastname, most\_recent\_order\_date**

**Alice, Johnson, 2023-05-05**

**Jane, Smith, 2023-04-10**

**John, Doe, 2023-03-15**

-- 6.Find the top 2 products with the highest total sales amount.

SELECT p.productname, SUM(p.price) AS total\_sales

FROM products p

JOIN orderdetails o ON p.productid = o.productid

GROUP BY p.productname

ORDER BY total\_sales DESC

LIMIT 2;

**# productname, total\_sales**

**Laptop, 1999.98**

**Smartphone, 1199.98**

-- 7. Get the average rating for products in each category.

select avg(r.rating), p.productname , p.category

from products p

join reviews r

on p.productid = r.productid

group by r.rating , p. productname , p.category ;

**# avg(r.rating), productname, category**

**5.0000, Laptop, Electronics**

**4.0000, Smartphone, Electronics**

-- 8. Find the customer who spent the most money on orders.

SELECT c.firstname, c.lastname , SUM(o.totalamount) AS total\_spent

FROM customers c

JOIN orders o ON c.customerid = o.customerid

GROUP BY c.firstname , c.lastname

ORDER BY total\_spent DESC

LIMIT 1;

**# firstname, lastname, total\_spent**

**John, Doe, 1599.98**

-- Q9. Find the name and email of the customer who placed the highest value order. (use subquery)

select firstname , lastname , email from customers c

where c.customerid =(SELECT o.customerid

FROM orders o

ORDER BY o.totalamount DESC

LIMIT 1

);

**# firstname, lastname, email**

**John, Doe, john.doe@example.com**

-- 10. Retrieve the order details (including product name and quantity) for order ID 1.

SELECT o.orderid,p.productname, od.quantity

FROM orders o

JOIN orderdetails od

ON o.orderid = od.orderid

JOIN products p

ON od.productid = p.productid

WHERE o.orderid = 1;

**# orderid productname quantity**

**1 Laptop 1**

**1 Smartphone 1**