E-Commerce Database Task

Customers Table

id	name	email	created_at
1	John Doe	john@example.com	2024-03-01 12:00:00
2	Alice Smith	alice@example.com	2024-03-02 14:30:00
3	Bob Johnson	bob@example.com	2024-03-03 10:45:00
4	Emma Wilson	emma@example.com	2024-03-04 09:15:00
5	David Brown	david@example.com	2024-03-05 16:20:00
6	Sophia Green	sophia@example.com	2024-03-06 18:05:00
7	Michael White	michael@example.com	2024-03-07 20:10:00
8	Olivia Harris	olivia@example.com	2024-03-08 11:30:00
9	William Taylor	william@example.com	2024-03-09 15:45:00
10	Charlotte Lee	charlotte@example.com	2024-03-10 13:25:00

Products Table

id	name	price	stock
1	Laptop	750.00	5
2	Smartphone	500.00	10
3	Headphones	60.00	15
4	Smartwatch	200.00	8
5	Tablet	350.00	12
6	Wireless Mouse	25.00	20
7	Keyboard	45.00	18
8	Monitor	300.00	7
9	External Hard Drive	100.00	10

id	name	price	stock
10	Gaming Console	450.00	6

Orders Table

id	customer_id	order_date
1	1	2024-03-05 10:00:00
2	2	2024-03-06 11:00:00
3	3	2024-03-07 12:00:00
4	4	2024-03-08 13:00:00
5	5	2024-03-09 14:00:00
6	6	2024-03-10 15:00:00
7	7	2024-03-11 16:00:00
8	8	2024-03-12 17:00:00
9	9	2024-03-13 18:00:00
10	10	2024-03-14 19:00:00

Order_Items Table

id	order_id	product_id	quantity
1	1	1	1
2	2	2	2
3	3	3	1
4	4	4	1
5	5	5	2

id	order_id	product_id	quantity
6	6	6	3
7	7	7	1
8	8	8	2
9	9	9	1
10	10	10	1

Questions

1. Retrieve all customers' names and emails:
2. List all products with their prices and available stock:
3. Count the total number of orders placed:
4. Find the most expensive product:
5. Find the product that generated the highest revenue (price × quantity sold):
6. Identify products that have **never been ordered**:
7. Find the total number of products sold (sum of all ordered quantities).
8. Get the most expensive product.
9. List all customers who have **not** placed an order.
10. Show all orders along with the total quantity of items in each order.
11. Find the most frequently ordered product.
12. List customers who have ordered more than one product in a single order.
13. Find the product that generated the highest revenue (price × quantity).
14. Find the total number of orders each customer has placed.
15. List all customers who ordered a Laptop.