

Assignemnt No.4

Name :- Shailesh Pawar

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1. Find the total amount spent by customer ID 3 (sum of all their orders).

Code :-

```
SELECT SUM(total_amount) AS total_spent
FROM Orders_230 WHERE customer_id = 3;
```

Output :-

customer_id	total_spent
3	2300.00

2. Find the total revenue generated from all orders.

Code :-

```
SELECT SUM(total_amount) AS total_revenue
FROM Orders_230;
```

Output :-

total_revenue
7800.00

3. Calculate the stock value (price × stock) for each product.

Code :-

```
SELECT product_id,name,category, (price*stock) AS "stock value"
From products_230;
```

Output :-

product_id	name	category	stock value
1	Laptop Pro	Electronics	12000.00
2	Smartphone X	Electronics	4000.00
3	Tablet S	Electronics	4800.00
4	Bluetooth Headphones	Accessories	1800.00
5	Wireless Mouse	Accessories	600.00
6	Office Chair	Furniture	750.00
7	Desk Lamp	Home Decor	400.00
8	T-Shirt	Clothing	1250.00
9	Winter Jacket	Clothing	1200.00
10	Gaming Keyboard	Electronics	0.00

4. Retrieve customers who are above 30 years old and live in "New York".

Code :-

```
SELECT product_id, name, category, price, stock, (price * stock) AS stock_value
FROM Products_230;
```

Output :-

product_id	name	category	price	stock	stock_value
1	Laptop Pro	Electronics	1200.00	10	12000.00
2	Smartphone X	Electronics	800.00	5	4000.00
3	Tablet S	Electronics	600.00	8	4800.00
4	Bluetooth Headphones	Accessories	150.00	12	1800.00
5	Wireless Mouse	Accessories	30.00	20	600.00
6	Office Chair	Furniture	250.00	3	750.00
7	Desk Lamp	Home Decor	40.00	10	400.00
8	T-Shirt	Clothing	25.00	50	1250.00
9	Winter Jacket	Clothing	80.00	15	1200.00
10	Gaming Keyboard	Electronics	90.00	0	0.00

4. Retrieve customers who are above 30 years old and live in "New York".

Code :

```
SELECT *from Customers_230
WHERE age >= 30 and city = "New York";
```

Output :-

customer_id	name	email	city	age
1	John Doe	john.doe@gmail.com	New York	35

5. Find customers who either live in "Los Angeles" or have placed an order worth more than \$500.

Code :-

```
SELECT *from customers_230
WHERE city = "Los Angeles" or customer_id IN (select customer_id from
orders_230 where total_amount > 500);
```

Output :-

customer_id	name	email	city	age
1	John Doe	john.doe@gmail.com	New York	35
2	Alice Smith	alice.smith@yahoo.com	Los Angeles	28
3	Robert Brown	robert.brown@outlook.com	Chicago	40
5	Michael Wilson	michael.wilson@gmail.com	Miami	33
7	Daniel Martinez	daniel.martinez@gmail.com	Los Angeles	31
8	Olivia Anderson	olivia.anderson@yahoo.com	Chicago	27
9	William Thomas	william.thomas@gmail.com	Boston	32

6. List products that are in stock but cost less than \$50.

Code :-

```
SELECT *from products_230
WHERE stock > 0 AND price < 50;
```

Output :-

product_id	name	category	price	stock
5	Wireless Mouse	Accessories	30.00	20
7	Desk Lamp	Home Decor	40.00	10
8	T-Shirt	Clothing	25.00	50

7. Find Products That Have Less Than 5 Items in Stock

Code :-

```
SELECT *from products_230
```

```
Where stock < 5;
```

Output :-

product_id	name	category	price	stock
6	Office Chair	Furniture	250.00	3
10	Gaming Keyboard	Electronics	90.00	0

8. Find orders that are not completed (status is not 'Completed').

Code :-

```
Select *from orders_230
```

```
where status not in ("Completed");
```

Output :-

order_id	customer_id	order_date	total_amount	status
2	2	2024-02-20	1200.00	Shipped
4	4	2024-04-10	450.00	Pending
6	6	2024-06-30	300.00	Cancelled
8	8	2024-08-25	900.00	Shipped
9	9	2024-09-12	700.00	Pending
10	10	2024-10-05	50.00	Delivered

9. Find products that are out of stock or belong to the "Electronics" category.

Code :-

```
SELECT *from products_230
```

```
WHERE category = "Electronics";
```

Output :-

product_id	name	category	price	stock
1	Laptop Pro	Electronics	1200.00	10
2	Smartphone X	Electronics	800.00	5
3	Tablet S	Electronics	600.00	8
10	Gaming Keyboard	Electronics	90.00	0

10. List all email addresses that belong to Gmail.

Code :-

```
SELECT *from customers_230
WHERE email LIKE "%@gmail%";
```

Output :-

customer_id	name	email	city	age
1	John Doe	john.doe@gmail.com	New York	35
4	Emily Davis	emily.davis@gmail.com	San Francisco	25
5	Michael Wilson	michael.wilson@gmail.com	Miami	33
7	Daniel Martinez	daniel.martinez@gmail.com	Los Angeles	31
9	William Thomas	william.thomas@gmail.com	Boston	32
10	Emma Harris	emma.harris@gmail.com	Houston	26

11. Find product names containing the word "Phone".

Code :-

```
SELECT *from products_230
WHERE name LIKE "%phone%";
```

Output :-

product_id	name	category	price	stock
2	Smartphone X	Electronics	800.00	5
4	Bluetooth Headphones	Accessories	150.00	12

12. Find customers whose names have exactly 5 characters.

Code :-

```
SELECT *from customers_230
WHERE LENGTH(name) = 5;
```

Output :-

```
OK, 0 records retrieved in 0.993ms
```

13. Find Products That Have "Laptop" or "Tablet" in Their Name

Code :-

```
SELECT * FROM products_230
```

WHERE name LIKE '%Laptop%' OR name LIKE '%Tablet%';

Output :-

product_id	name	category	price	stock
1	Laptop Pro	Electronics	1200.00	10
3	Tablet S	Electronics	600.00	8

14. Retrieve orders placed in the year 2024.

Code :-

```
SELECT *from orders_230  
WHERE YEAR(order_date) = 2024;
```

Output :-

order_id	customer_id	order_date	total_amount	status
1	1	2024-01-15	750.00	Completed
2	2	2024-02-20	1200.00	Shipped
3	3	2024-03-05	2300.00	Completed
4	4	2024-04-10	450.00	Pending
5	5	2024-05-22	600.00	Completed
6	6	2024-06-30	300.00	Cancelled
7	7	2024-07-18	550.00	Completed
8	8	2024-08-25	900.00	Shipped
9	9	2024-09-12	700.00	Pending
10	10	2024-10-05	50.00	Delivered

15. Find customers who live in "New York", "Los Angeles", or "Chicago".

Code :-

```
SELECT *from customers_230  
where city in ("New York","Los Angeles","Chicago");
```

Output :-

customer_id	name	email	city	age
1	John Doe	john.doe@gmail.com	New York	35
2	Alice Smith	alice.smith@yahoo.com	Los Angeles	28
3	Robert Brown	robert.brown@outlook.com	Chicago	40
6	Sophia Taylor	sophia.taylor@hotmail.com	New York	29
7	Daniel Martinez	daniel.martinez@gmail.com	Los Angeles	31
8	Olivia Anderson	olivia.anderson@yahoo.com	Chicago	27

16. List products that do not belong to the 'Electronics' or 'Clothing' categories.

Code :-

```
SELECT *from products_230
WHERE category NOT IN ('Electronics','Clothing');
```

Output :-

product_id	name	category	price	stock
4	Bluetooth Headphones	Accessories	150.00	12
5	Wireless Mouse	Accessories	30.00	20
6	Office Chair	Furniture	250.00	3
7	Desk Lamp	Home Decor	40.00	10

17. Find orders placed by customers with IDs 1, 3, or 5.

Code :-

```
SELECT *from orders_230
WHERE customer_id IN (1,3,5);
```

Output :-

order_id	customer_id	order_date	total_amount	status
1	1	2024-01-15	750.00	Completed
3	3	2024-03-05	2300.00	Completed
5	5	2024-05-22	600.00	Completed

18. Find customers who have not placed any orders.

Code :-

```
SELECT * FROM customers_230
WHERE customer_id NOT IN (SELECT customer_id FROM orders_230);
```

Output :-

```
OK, 0 records retrieved in 0.997ms
```

19. Show All Orders Placed in the Last 30 Days

Code :-

```
SELECT * FROM orders_230
WHERE order_date >= DATE_SUB(CURDATE(), INTERVAL 30 DAY);
```

Output :-

```
OK, 0 records retrieved in 0.997ms
```

20. Find Orders Where the Total Amount is an Exact Multiple of 100

Code :-

```
SELECT * FROM orders_230
WHERE total_amount % 100 = 0;
```

Output :-

order_id	customer_id	order_date	total_amount	status
2	2	2024-02-20	1200.00	Shipped
3	3	2024-03-05	2300.00	Completed
5	5	2024-05-22	600.00	Completed
6	6	2024-06-30	300.00	Cancelled
8	8	2024-08-25	900.00	Shipped
9	9	2024-09-12	700.00	Pending