

QUERIES

Topic 1: Date & Time

- **Problem 5:**

Display the customer number, name, and order number for orders placed after the 15th day of any month.

```
mysql> select c.custid,c.name,o.orderid
→ from orders o
→ join customer c on c.custid = o.custid
→ where DAY(order_date)>=15;
```

```
+-----+-----+-----+
| custid | name      | orderid |
+-----+-----+-----+
| C0001 | Amit Sharma | OR0001 |
| C0003 | Vikram Singh | OR0003 |
| C0004 | Sneha Kapoor | OR0005 |
| C0002 | Rahul Verma | OR0007 |
| C0001 | Amit Sharma | OR0009 |
| C0004 | Sneha Kapoor | OR0010 |
+-----+-----+-----+
```

6 rows in set (0.05 sec)

```
mysql> select c.custid,c.name,o.orderid,o.order_date
→ from orders o
→ join customer c on c.custid = o.custid
→ where DAY(order_date)>=15;
```

```
+-----+-----+-----+-----+
| custid | name      | orderid | order_date |
+-----+-----+-----+-----+
| C0001 | Amit Sharma | OR0001 | 2025-03-20 |
| C0003 | Vikram Singh | OR0003 | 2025-05-18 |
| C0004 | Sneha Kapoor | OR0005 | 2025-09-25 |
| C0002 | Rahul Verma | OR0007 | 2026-03-22 |
| C0001 | Amit Sharma | OR0009 | 2026-07-15 |
```

```
| C0004 | Sneha Kapoor | OR0010 | 2026-12-31 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

- **Problem 13:**

Find the names of all customers who placed an order with a total order price greater than 6,000 and whose order was placed in the month of July.

```
mysql> select c.name from customer c
→ join orders o on c.custid = o.custid
→ where o.total_price > 6000 and MONTH(order_date) = 7;
+-----+
| name      |
+-----+
| Amit Sharma |
| Amit Sharma |
+-----+
2 rows in set (0.01 sec)
```

Topic 2: Aggregation, GROUP BY, ORDER BY

- **Problem 7:**

Display each jewellery type (jtype) along with the count of items available in that category. Alias the count as "Count_Items."

```
mysql> select jtype, count(jewelleryid) as Count_Items from jewellery
→ group by jtype;
+-----+-----+
| jtype      | Count_Items |
+-----+-----+
| Anklets    | 3           |
| Bangles    | 3           |
| Bracelets  | 3           |
| Chains     | 3           |
```

Earrings	3
Locket	3
Mangalsutras	3
Payal	3
Pendants	3
Pearl	3
Ring	3

+-----+

11 rows in set (0.00 sec)

• Problem 14:

Find out the total sum of all order amounts (i.e., compute the overall total sales).

```
mysql> select sum(total_price) as total_sales from orders;
```

total_sales
848430.00

+-----+

1 row in set (0.00 sec)

Topic 3: Joins

• Problem 3:

Display the order number, customer number, customer name, and order date by joining the orders and customer tables.

```
mysql> SELECT o.orderid , c.custid , c.name , o.order_date
→ FROM orders o
→ JOIN customer c ON o.custid = c.custid;
```

orderid	custid	name	order_date
OR0001	C0001	Amit Sharma	2025-03-20
OR0002	C0002	Rahul Verma	2025-04-10
OR0003	C0003	Vikram Singh	2025-05-18
OR0004	C0001	Amit Sharma	2025-07-08

OR0005	C0004	Sneha Kapoor	2025-09-25
OR0006	C0005	Priya Mehta	2025-11-12
OR0007	C0002	Rahul Verma	2026-03-22
OR0008	C0003	Vikram Singh	2026-06-05
OR0009	C0001	Amit Sharma	2026-07-15
OR0010	C0004	Sneha Kapoor	2026-12-31

+-----+-----+-----+-----+

10 rows in set (0.00 sec)

- **Problem 8:**

Display the order number and customer name for orders that have an associated payment record (i.e., orders that have been paid).

```
mysql> select o.orderid , c.custid
→ from orders o
→ join customer c
→ on c.custid = o.custid
→ join payment p on o.orderid = p.orderid;
```

orderid	custid
OR0001	C0001
OR0004	C0001
OR0009	C0001
OR0002	C0002
OR0007	C0002
OR0003	C0003
OR0008	C0003
OR0005	C0004
OR0010	C0004
OR0006	C0005

+-----+-----+

10 rows in set (0.00 sec)

- **Problem 9:**

Display the customer number, customer name, order number, and total order price for all orders.

```
mysql> SELECT c.custid, c.name, o.orderid, o.total_price  
→ FROM orders o  
→ JOIN customer c ON o.custid = c.custid;
```

custid	name	orderid	total_price
C0001	Amit Sharma	OR0001	75580.00
C0002	Rahul Verma	OR0002	25000.00
C0003	Vikram Singh	OR0003	84700.00
C0001	Amit Sharma	OR0004	74490.00
C0004	Sneha Kapoor	OR0005	110000.00
C0005	Priya Mehta	OR0006	108400.00
C0002	Rahul Verma	OR0007	103130.00
C0003	Vikram Singh	OR0008	105380.00
C0001	Amit Sharma	OR0009	103950.00
C0004	Sneha Kapoor	OR0010	57800.00

10 rows in set (0.00 sec)

```
mysql> SELECT c.custid, c.name, SUM(o.total_price) as total_spending from  
orders o  
→ join customer c on c.custid = o.custid  
→ group by c.custid;
```

custid	name	total_spending
C0001	Amit Sharma	254020.00
C0002	Rahul Verma	128130.00
C0003	Vikram Singh	190080.00
C0004	Sneha Kapoor	167800.00
C0005	Priya Mehta	108400.00

5 rows in set (0.00 sec)

- **Problem 12:**

Find the names of all customers who have placed orders with a total order price greater than 6,000.

```
mysql> select c.name from customer c
```

```
→ join orders o on c.custid = o.custid
```

```
→ where o.total_price >6000;
```

```
+-----+
```

```
| name      |
```

```
+-----+
```

```
| Amit Sharma |
```

```
| Rahul Verma |
```

```
| Vikram Singh |
```

```
| Amit Sharma |
```

```
| Sneha Kapoor |
```

```
| Priya Mehta |
```

```
| Rahul Verma |
```

```
| Vikram Singh |
```

```
| Amit Sharma |
```

```
| Sneha Kapoor |
```

```
+-----+
```

```
10 rows in set (0.00 sec)
```

Topic 4: General

- **Problem 1:**

Display the customer number, name, and email address, sorted in alphabetical order by name.

```
mysql> -- problem 1
```

```
mysql> SELECT custid, name, email from Customer order by name asc;
```

```
+-----+-----+-----+
```

custid	name	email
C0001	Amit Sharma	amit.sharma@gmail.com
C0008	Ananya Iyer	ananya.iyer@gmail.com
C0007	Deepak Malhotra	deepak.malhotra@gmail.com
C0010	Kunal Joshi	kunal.joshi@gmail.com
C0005	Priya Mehta	priya.mehta@gmail.com
C0002	Rahul Verma	rahul.verma@gmail.com
C0006	Rohit Nair	rohit.nair@gmail.com
C0009	Sandeep Yadav	sandeep.yadav@gmail.com
C0004	Sneha Kapoor	sneha.kapoor@gmail.com
C0003	Vikram Singh	vikram.singh@gmail.com

10 rows in set (0.01 sec)

• Problem 2:

Display the customer number along with a combined "Cust_Info" column that concatenates the customer's name and phone number.

```
mysql> SELECT CONCAT(name," ",phnumber) as Cust_Info from Customer;
```

Cust_Info

```
| Amit Sharma 9876434365 |
| Rahul Verma 8765432109 |
| Vikram Singh 7654321098 |
| Sneha Kapoor 9543210987 |
| Priya Mehta 8432109876 |
| Rohit Nair 9321098765 |
| Deepak Malhotra 8210987654 |
| Ananya Iyer 9108765432 |
| Sandeep Yadav 8987654321 |
| Kunal Joshi 9876504321 |
+-----+
10 rows in set (0.00 sec)
```

- **Problem 4:**

Display the total count of customers who use Gmail (i.e., whose email addresses end with "@gmail.com"), and alias the count as "Cust_Count."

```
mysql> select count(custid) as Cust_Count from customer where email like
'%@gmail.com';
```

```
+-----+
| Cust_Count |
+-----+
|      10 |
+-----+
1 row in set (0.00 sec)
```

- **Problem 6:**

Display the order number and customer name for orders placed by a specified group of customers (for example, filtering on known names for female customers).

```
mysql> alter table customer add column gender char(1) default 'M';
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0
```



```
mysql> update customer set gender = 'F' where custid in ('C0008','C0004','C0005');
```

Query OK, 3 rows affected (0.01 sec)

Rows matched: 3 Changed: 3 Warnings: 0

```
mysql> select * from customer;
```

custid	name	phnumber	email	gender
C0001	Amit Sharma	9876434365	amit.sharma@gmail.com	M
C0002	Rahul Verma	8765432109	rahul.verma@gmail.com	M
C0003	Vikram Singh	7654321098	vikram.singh@gmail.com	M
C0004	Sneha Kapoor	9543210987	sneha.kapoor@gmail.com	F
C0005	Priya Mehta	8432109876	priya.mehta@gmail.com	F
C0006	Rohit Nair	9321098765	rohit.nair@gmail.com	M
C0007	Deepak Malhotra	8210987654	deepak.malhotra@gmail.com	M
C0008	Ananya Iyer	9108765432	ananya.iyer@gmail.com	F
C0009	Sandeep Yadav	8987654321	sandeep.yadav@gmail.com	M
C0010	Kunal Joshi	9876504321	kunal.joshi@gmail.com	M

10 rows in set (0.00 sec)

```
mysql> select o.orderid , c.custid from orders o  
→ join customer c  
→ on c.custid = o.custid  
→ where c.gender = 'F';
```

```

+-----+-----+
|orderid | custid |
+-----+-----+
| OR0005 | C0004 |
| OR0010 | C0004 |
| OR0006 | C0005 |
+-----+-----+
3 rows in set (0.00 sec)

```

- **Problem 10:**

Display the customer number, name, and order number for orders that are considered "terminated" (for example, using a total price of 0 as an indicator).

```

mysql> select c.custid,c.name , o.orderid from orders o
→ join customer c on c.custid = o.custid
→ where o.total_price = 0;
Empty set (0.00 sec)

```

- **Problem 11:**

Find all orders where the total order price is greater than 100,000.

```

mysql> select * from orders where total_price >= 100000;
+-----+-----+-----+-----+
|orderid | custid | order_date | total_price |
+-----+-----+-----+-----+
| OR0005 | C0004 | 2025-09-25 | 110000.00 |
| OR0006 | C0005 | 2025-11-12 | 108400.00 |
| OR0007 | C0002 | 2026-03-22 | 103130.00 |
| OR0008 | C0003 | 2026-06-05 | 105380.00 |
| OR0009 | C0001 | 2026-07-15 | 103950.00 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```
