

# SQL QUERIES

## Online Food Delivery System (505,515,522,523)

Hard-coded values for tables

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
c_no	int	NO	PRI	NULL	
c_name	varchar(50)	NO		NULL	
c_mob	varchar(10)	NO	UNI	NULL	
c_dob	date	YES		NULL	
c_city	varchar(50)	YES		Pune	

5 rows in set (0.01 sec)

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

c_no	c_name	c_mob	c_dob	c_city
1	Aditi Kulkarni	9876543210	1995-04-15	Pune
2	Sneha Patil	9123456789	1998-08-10	Mumbai
3	Priya Deshmukh	9876501234	1993-02-25	Nagpur
4	Rohan Jadhav	9123487654	1990-12-05	Kolhapur
5	Shreya Joshi	1234567889	1998-04-02	Pune
6	Arjun Kale	9123001122	1992-09-15	Pune
7	Ritika Gokhale	9876542233	1996-07-21	Mumbai
8	Ankit Joshi	9123445566	1994-01-19	Mumbai
9	Sakshi Khedekar	9876503344	1997-11-30	Pune
10	Vikram Patil	9123004455	1989-03-12	Thane
101	Shekhar	1234567890	1999-05-04	Mumbai

11 rows in set (0.00 sec)

```
mysql> select * from primecustomer;
```

c_no	dom_start	dom_end	amount_paid
1	2023-01-01	2023-12-31	6000
2	2023-02-01	2023-12-31	4500
3	2023-03-01	2023-12-31	5000
4	2023-04-01	2023-12-31	5500
5	2024-05-05	2024-06-05	1000
6	2023-06-01	2023-12-31	4800
7	2023-07-01	2023-12-31	5200
8	2023-08-01	2023-12-31	4700
9	2023-09-01	2023-12-31	5300
10	2023-10-01	2023-12-31	4900

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

```
mysql> desc primecustomer;
```

Field	Type	Null	Key	Default	Extra
c_no	int	NO	PRI	NULL	
dom_start	date	YES		NULL	
dom_end	date	YES		NULL	
amount_paid	double	NO		NULL	

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

```
mysql> desc regularcustomer;
```

Field	Type	Null	Key	Default	Extra
c_no	int	NO	PRI	NULL	
points	int	YES		NULL	

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

```
mysql> select * from regularcustomer;
```

c_no	points
1	120
2	140
3	180
4	200
6	150
7	175
8	130
9	190
10	160

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

```
mysql> desc menu;
```

Field	Type	Null	Key	Default	Extra
m_id	int	NO	PRI	NULL	auto_increment
m_name	varchar(50)	YES	UNI	NULL	
m_price	double	NO		NULL	
m_type	enum('Veg','Non-Veg')	YES		NULL	
m_available	tinyint(1)	YES		NULL	

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

```
mysql> select * from menu;
```

m_id	m_name	m_price	m_type	m_available
3	Paratha	120	Veg	0
4	Misal Pao	90	Veg	1
5	Noodles	150	Veg	1
6	Manchurian	180	Veg	1
7	Fries	70	Veg	1
8	Omlette	85	Non-Veg	0
9	Veg Burger	100	Veg	0
10	Chicken Burger	150	Non-Veg	1
11	Lobster Curry	350	Non-Veg	1
12	Mutton Biryani	250	Non-Veg	1
13	Paneer Tikka	220	Veg	0
14	Lamb Chop	300	Non-Veg	1
15	Veg Pulao	220	Veg	1
16	Butter Chicken	280	Non-Veg	0
17	Prawn Masala	320	Non-Veg	1
18	Veg Lasagna	260	Veg	1
19	Chicken Shawarma	240	Non-Veg	1
20	Steak	400	Non-Veg	0
21	Sizzling Brownie	250	Veg	1
22	Malai Rabdi	230	Veg	1
201	Methi Paratha	150	Veg	0
301	masala puri	35	Veg	0

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

```
mysql> desc orderitems;
```

Field	Type	Null	Key	Default	Extra
o_id	int	NO	PRI	NULL	
m_id	int	YES	MUL	NULL	
quantity	int	YES		NULL	
o_price	double	YES		NULL	
c_no	int	YES	MUL	NULL	

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

```
mysql> select * from orderitems;
```

o_id	m_id	quantity	o_price	c_no
1	3	2	240	1
2	4	3	270	5
3	5	1	150	2
4	6	4	720	7
5	7	1	70	1
6	10	2	300	3
7	11	3	1050	8
8	12	1	250	4
9	14	2	600	5
10	17	3	960	2
11	21	1	250	10

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

```
mysql> desc payment;
```

Field	Type	Null	Key	Default	Extra
p_id	int	NO	PRI	NULL	
o_id	int	YES	MUL	NULL	
p_date	date	YES		NULL	
p_method	enum('Cash', 'UPI', 'Card')	YES		NULL	
p_status	enum('Paid', 'Not paid')	YES		NULL	

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

```
mysql> select * from payment;
```

p_id	o_id	p_date	p_method	p_status
1	1	2023-11-12	Cash	Paid
2	2	2023-11-12	UPI	Paid
3	3	2023-11-12	Card	Paid
4	4	2023-11-12	Cash	Paid
5	5	2023-11-12	Card	Paid
6	6	2023-11-12	UPI	Paid
7	7	2023-11-12	Cash	Paid
8	8	2023-11-12	Card	Paid
9	9	2023-11-12	UPI	Paid
10	10	2023-11-12	Cash	Paid
607	2	2024-09-09	Cash	Paid

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

TRIGGER (to calculate bill amount) :-

```
DELIMITER //
mysql> CREATE Trigger calc_price
-> BEFORE INSERT on OrderItems
-> for each ROW
-> BEGIN
-> DECLARE item_price DOUBLE;
-> DECLARE item_quantity INT;
->
-> SELECT m_price into item_price from Menu WHERE m_id =
NEW.m_id ;
->
->
-> SET NEW.o_price = item_price * NEW.quantity ;
-> END //
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> DELIMITER ;
```

**Question 1 : Show Customers who have not**

## *completed payment.*

### PROCEDURE

```
DELIMITER //
CREATE PROCEDURE customer_notpaid()
BEGIN
    SELECT DISTINCT c.c_name
    FROM Customer c
    LEFT JOIN OrderItems oi ON c.c_no = oi.c_no
    LEFT JOIN Payment p ON oi.o_id = p.o_id
    WHERE p.p_status = 'Not paid' OR p.o_id IS NULL;
END //
DELIMITER ;
mysql> CALL customer_notpaid();
+-----+
| c_name |
+-----+
| Rohan Jadhav |
| Ritika Gokhale |
+-----+
2 rows in set (0.00 sec)
```

## *Question 2: Show Customers who have ordered Non-veg food.*

(using Subquery)

```
SELECT c_name
FROM Customer
WHERE c_no IN (
    SELECT c_no
    FROM OrderItems
    WHERE m_id IN (
        SELECT m_id
        FROM Menu
        WHERE m_type = 'Non-Veg'
    )
);
+-----+
```

```

| c_name |
+-----+
| Sneha Patil |
| Priya Deshmukh |
| Rohan Jadhav |
| Mahesh Shinde |
| Ankit Joshi |
+-----+
5 rows in set (0.00 sec)

```

***Question 3: Calculate Customers' age and their names in Ascending order of their age.***

FUNCTION

```

create function calc_age(c_dob date)
    -> returns int
    -> deterministic
    -> begin
    -> declare age int;
    -> set age=0;
    -> SET age = TIMESTAMPDIFF(YEAR, c_dob, CURDATE());
    -> return age;
    -> end //

```

Query OK, 0 rows affected (0.09 sec)

Calling function, and using ORDER BY clause

```

select c_name, Calc_age(c_dob) as age from customer order by
age;

```

```

+-----+
| age |
+-----+
| 26 |
| 29 |
| 31 |
| 33 |
| 36 |

```



```
+-----+
5 rows in set (0.01 sec)
```

### ***Question 4: Display Menu Items with price between 100 and 200.***

Using BETWEEN clause

```
select * from menu where _price between 100 and 200);
+-----+-----+-----+-----+-----+
| m_id | m_name | m_price | m_type | m_available |
+-----+-----+-----+-----+-----+
| 1 | Paratha | 120 | Veg | 1 | | 2 | Misal Pao | 90
| Veg | 1 | | 3 | Noodles | 150 | Veg | 1 | | 4 |
Manchurian | 180 | Veg | 1 |
+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

### ***Question 5: Find Customers who are born in 1998.***

Using LIKE clause

```
select * from customer where c_dob like '1998-__-__';
+-----+-----+-----+-----+-----+
| c_no | c_name | c_mob | c_dob | c_city |
+-----+-----+-----+-----+-----+
| 2 | Sneha Patil | 9123456789 | 1998-08-10 | Mumbai |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec);
```

### ***Question 6: Show PrimeCustomer IDs along with how many days membership they have.***

Query on Date

```
mysql> SELECT c_no, DATEDIFF(dom_end, dom_start) AS days_diff
from PrimeCustomer;
+-----+-----+
| c_no | days_diff |
+-----+-----+
| 1 | 364 |
| 2 | 333 |
| 3 | 305 |
| 4 | 274 |
| 5 | 244 |
| 6 | 213 |
| 7 | 183 |
| 8 | 152 |
| 9 | 121 |
| 10 | 91 |
+-----+-----+
10 rows in set (0.00 sec)
```

## ***Question 7: Display number of Veg and Non-veg orders***

Using GROUP BY clause

```
SELECT m_type, COUNT(DISTINCT o_id) AS num_orders
FROM menu
JOIN orderitems ON menu.m_id = orderitems.m_id
GROUP BY m_type;
+-----+-----+
| m_type | num_orders |
+-----+-----+
| Veg | 6 |
| Non-Veg | 5 |
+-----+-----+
2 rows in set (0.00 sec)
```

## ***Question 8: Display RegularCustomers with less than 150.***

Using INNER JOIN

```

SELECT c_name, c_no
FROM customer
INNER JOIN regularcustomer ON customer.c_no =
regularcustomer.c_no
WHERE points < 150;
+-----+-----+-----+-----+-----+-----+
--+-----+
| c_no | c_name | c_mob | c_dob | c_city | c_no | points |
+-----+-----+-----+-----+-----+-----+
--+-----+
| 1 | Aditi Kulkarni | 9876543210 | 1995-04-15 | Pune | 1 |
120 |
| 2 | Sneha Patil | 9123456789 | 1998-08-10 | Mumbai | 2 |
140 |
+-----+-----+-----+-----+-----+-----+
--+-----+
2 rows in set (0.00 sec)

```

## ***Question 9: Display Customers who have done payment through UPI.***

Using OUTER JOIN

```

SELECT c.c_name, p.p_status, p.p_method
FROM Customer c
LEFT JOIN RegularCustomer rc ON c.c_no = rc.c_no
LEFT JOIN PrimeCustomer pc ON c.c_no = pc.c_no
LEFT JOIN Payment p ON p.o_id IN (SELECT oi.o_id FROM OrderItems
oi WHERE oi.c_no = c.c_no)
WHERE p.p_method = 'UPI';
+-----+-----+-----+
| c_name | p_status | p_method |
+-----+-----+-----+
| Sneha Patil | Paid | UPI |
| Mahesh Shinde | Not paid | UPI |
+-----+-----+-----+
2 rows in set (0.00 sec)

```

## Question 10: Display a View of Orders and Prices.

Create and display a view of OrderItems table

```
mysql> CREATE View v1 AS SELECT o_id, o_price from OrderItems;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> SET Profiling=1;
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

```
mysql> SELECT * from OrderItems WHERE o_price<100;
+-----+-----+-----+-----+-----+
| o_id | m_id | quantity | o_price | c_no |
+-----+-----+-----+-----+-----+
| 5 | 7 | 1 | 70 | 1 |
+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

```
mysql> SHOW profiles;
+-----+-----+-----+-----+-----+
-----+
| Query_ID | Duration | Query
|
+-----+-----+-----+-----+-----+
-----+
| 1 | 0.00480400 | SELECT * from OrderItems WHERE
o_price<100 |
+-----+-----+-----+-----+-----+
-----+
1 row in set, 1 warning (0.00 sec)
```

```
mysql> SELECT * from v1;
+-----+-----+
| o_id | o_price |
+-----+-----+
| 1 | 240 |
| 2 | 270 |
```

3	150
4	720
5	70
6	300
7	1050
8	250
9	600
10	960
11	250

```

+-----+-----+
11 rows in set (0.01 sec)

```

## ***Question 11 : Find number of Customers living in Pune.***

Using aggregate function

```

mysql> SELECT COUNT(*) AS num_customers FROM Customer WHERE
c_city = 'Pune';
+-----+
| num_customers |
+-----+
| 3 |
+-----+
1 row in set (0.01 sec)

```

## ***Question 12: Show Customers whose membership started before 1st June 2023.***

Using Join

```

SELECT c.c_no, c.c_name
FROM Customer c
JOIN PrimeCustomer pc ON c.c_no = pc.c_no
WHERE pc.dom_start < '2023-06-01';
+-----+-----+
| c_no | c_name |
+-----+-----+

```

```
| 1 | Aditi Kulkarni |
| 2 | Sneha Patil |
| 3 | Priya Deshmukh |
| 4 | Rohan Jadhav |
| 5 | Mahesh Shinde |
+-----+-----+
5 rows in set (0.00 sec)
```

## ***Question 13: Group Customers by mode of payment.***

Using GROUP BY clause

```
mysql> SELECT p.p_method AS payment_method, COUNT(*) AS
customer_count
-> FROM Payment p
-> WHERE p.p_status = 'Paid'
-> GROUP BY p.p_method;
+-----+-----+
| payment_method | customer_count |
+-----+-----+
| Cash | 3 |
| UPI | 3 |
| Card | 1 |
+-----+-----+
3 rows in set (0.00 sec)
```

## ***Question 14: Find items in Menu having Chicken***

Using LIKE clause

```
mysql> SELECT m_name, m_price, m_type
-> FROM Menu
-> WHERE m_name LIKE '%chicken%';
+-----+-----+-----+
| m_name | m_price | m_type |
+-----+-----+-----+
```

```

| Chicken Burger | 150 | Non-Veg |
| Butter Chicken | 280 | Non-Veg |
| Chicken Shawarma | 240 | Non-Veg |
+-----+-----+-----+
3 rows in set (0.00 sec)

```

## ***Question 15: Show number of available and not available items from Menu.***

```

mysql> SELECT m_available AS availability_status, COUNT(*) AS
item_count
      -> FROM Menu
      -> GROUP BY m_available;
+-----+-----+
| availability_status | item_count |
+-----+-----+
| 1 | 15 |
| 0 | 6 |
+-----+-----+
2 rows in set (0.00 sec)

```

## ***Question 16: Display Customers who have placed multiple orders.***

```

Using JOIN & Group By
SELECT c.c_no, c.c_name, COUNT(oi.o_id) AS items_ordered
FROM Customer c
JOIN OrderItems oi ON c.c_no = oi.c_no
GROUP BY c.c_no, c.c_name
HAVING COUNT(oi.o_id) >
+-----+-----+-----+
| c_no | c_name | items_ordered |
+-----+-----+-----+
| 1 | Aditi Kulkarni | 2 |
| 2 | Sneha Patil | 2 |
| 5 | Mahesh Shinde | 2 |
+-----+-----+-----+

```

3 rows in set (0.00 sec)

## ***Question 17: Show total Bill Amount of each Customer.***

Using JOIN & aggregate function

```
SELECT c.c_no, c.c_name, SUM(oi.o_price) AS bill_amount
```

```
FROM Customer c
```

```
JOIN OrderItems oi ON c.c_no = oi.c_no
```

```
GROUP BY c.c_no, c.c_name;
```

```
+-----+-----+-----+
| c_no | c_name | bill_amount |
+-----+-----+-----+
| 1 | Aditi Kulkarni | 310 |
| 5 | Mahesh Shinde | 870 |
| 2 | Sneha Patil | 1110 |
| 7 | Ritika Gokhale | 720 |
| 3 | Priya Deshmukh | 300 |
| 8 | Ankit Joshi | 1050 |
| 4 | Rohan Jadhav | 250 |
| 10 | Vikram Patil | 250 |
+-----+-----+-----+
```

8 rows in set (0.00 sec)

## ***Question 18: Show Customers ordered by their Points***

Using INNER JOIN

```
SELECT c.c_name, rc.points
```

```
FROM Customer c
```

```
INNER JOIN RegularCustomer rc ON c.c_no = rc.c_no
```

```
ORDER BY rc.points;mysql> SELECT c.c_name, rc.points
```

```
-> FROM Customer c
```

```
    -> INNER JOIN RegularCustomer rc ON c.c_no = rc.c_no
```

```
    -> ORDER BY rc.points;
```



```

+-----+-----+
| c_name | points |
+-----+-----+
| Aditi Kulkarni | 120 |
| Ankit Joshi | 130 |
| Sneha Patil | 140 |
| Arjun Kale | 150 |
| Mahesh Shinde | 160 |
| Vikram Patil | 160 |
| Ritika Gokhale | 175 |
| Priya Deshmukh | 180 |
| Sakshi Khedekar | 190 |
| Rohan Jadhav | 200 |
+-----+-----+
10 rows in set (0.00 sec)

```

## ***Question 19 : Show Customers who have order Sizzling Brownie***

Using JOIN and Subquery

```

mysql> SELECT c_name
      -> FROM Customer
      -> WHERE c_no IN (
      -> SELECT o.c_no
      -> FROM OrderItems o
      -> JOIN Menu m ON o.m_id = m.m_id
      -> WHERE m.m_name = 'Sizzling Brownie'
      -> );

```

```

+-----+
| c_name |
+-----+
| Vikram Patil |
+-----+
1 row in set (0.00 sec)

```

## ***Question 20 : Display Menu Items in order of increasing prices.***

Using ORDER BY clause

```
mysql> SELECT m_name, m_price from Menu ORDER BY m_price;
```

```
+-----+-----+
| m_name | m_price |
+-----+-----+
| Fries  | 70      |
| Omlette | 85      |
| Misal Pao | 90     |
| Veg Burger | 100    |
| Paratha | 120     |
| Noodles | 150     |
| Chicken Burger | 150   |
| Manchurian | 180    |
| Nutella Cheesecake | 200  |
| Paneer Tikka | 220    |
| Veg Pulao | 220    |
| Malai Rabdi | 230    |
| Chicken Shawarma | 240  |
| Mutton Biryani | 250   |
| Sizzling Brownie | 250  |
| Veg Lasagna | 260    |
| Butter Chicken | 280   |
| Lamb Chop | 300     |
| Prawn Masala | 320    |
| Lobster Curry | 350    |
| Steak   | 400     |
+-----+-----+
21 rows in set (0.00 sec)
```