

**USE ecommerce\_db;**

**-- Users and their orders**

**SELECT u.user\_id, u.name, o.order\_id, o.order\_date  
FROM Users u  
INNER JOIN Orders o ON u.user\_id = o.user\_id;**

user_id	name	order_id	order_date
1	Aditya Patil	1	9/24/2025 16:50
2	Bhushan Chavan	3	9/24/2025 16:50
4	Dinesh Jadhav	4	9/24/2025 16:50
5	Ganesh Kadam	5	9/24/2025 16:50
6	Tushar Patil	6	9/24/2025 16:50

**-- Users and their orders (showing users with no orders too)**

**SELECT u.user\_id, u.name, o.order\_id, o.order\_date  
FROM Users u  
LEFT JOIN Orders o ON u.user\_id = o.user\_id;**

user_id	name	order_id	order_date
1	Aditya Patil	1	9/24/2025 16:50
2	Bhushan Chavan	3	9/24/2025 16:50
3	Chetan Salunkhe	NULL	NULL
4	Dinesh Jadhav	4	9/24/2025 16:50
5	Ganesh Kadam	5	9/24/2025 16:50
6	Tushar Patil	6	9/24/2025 16:50
7	Akshay Jadhav	NULL	NULL
8	Ashutosh Bankar	NULL	NULL
9	Vijay Sawant	NULL	NULL
10	Pratik Pakhale	NULL	NULL
11	Rushi Kale	NULL	NULL
12	Roshan Puneekar	NULL	NULL

**-- Orders and users (showing orders even if user info missing)**

**SELECT u.user\_id, u.name, o.order\_id, o.order\_date  
FROM Users u  
RIGHT JOIN Orders o ON u.user\_id = o.user\_id;**

user_id	name	order_id	order_date
1	Aditya Patil	1	9/24/2025 16:50
2	Bhushan Chavan	3	9/24/2025 16:50
4	Dinesh Jadhav	4	9/24/2025 16:50
5	Ganesh Kadam	5	9/24/2025 16:50
6	Tushar Patil	6	9/24/2025 16:50

-- Users and Orders (all users + all orders, matched or not)

```
SELECT u.user_id, u.name, o.order_id, o.order_date
FROM Users u
LEFT JOIN Orders o ON u.user_id = o.user_id
UNION
SELECT u.user_id, u.name, o.order_id, o.order_date
FROM Users u
RIGHT JOIN Orders o ON u.user_id = o.user_id;
```

user_id	name	order_id	order_date
1	Aditya Patil	1	9/24/2025 16:50
2	Bhushan Chavan	3	9/24/2025 16:50
3	Chetan Salunkhe	NULL	NULL
4	Dinesh Jadhav	4	9/24/2025 16:50
5	Ganesh Kadam	5	9/24/2025 16:50
6	Tushar Patil	6	9/24/2025 16:50
7	Akshay Jadhav	NULL	NULL
8	Ashutosh Bankar	NULL	NULL
9	Vijay Sawant	NULL	NULL
10	Pratik Pakhale	NULL	NULL
11	Rushi Kale	NULL	NULL
12	Roshan Puneekar	NULL	NULL

-- Orders with product details

```
SELECT o.order_id, u.name AS customer, p.name AS product, oi.quantity, oi.price
FROM Orders o
JOIN Users u ON o.user_id = u.user_id
JOIN OrderItems oi ON o.order_id = oi.order_id
JOIN Products p ON oi.product_id = p.product_id;
```

order_id	customer	product	quantity	price
1	Aditya Patil	Laptop	1	55000
1	Aditya Patil	Novel	3	1196
3	Bhushan Chavan	Smartphone	1	4999
3	Bhushan Chavan	T-shirt	1	1999
4	Dinesh Jadhav	Cricket Bat	2	499
5	Ganesh Kadam	Headphones	1	8500
5	Ganesh Kadam	Jeans	3	899
6	Tushar Patil	Novel	2	1299
6	Tushar Patil	Laptop	1	25000

-- Total spent per user

```
SELECT u.name, SUM(p.amount) AS total_spent
FROM Users u
JOIN Orders o ON u.user_id = o.user_id
JOIN Payments p ON o.order_id = p.order_id
GROUP BY u.name
ORDER BY total_spent DESC;
```

name	total_spent
Aditya Patil	56000
Tushar Patil	27598
Ganesh Kadam	11297
Bhushan Chavan	6998
Dinesh Jadhav	998

-- All possible combinations of products and categories

```
SELECT p.name AS product_name, c.category_name
FROM Products p
CROSS JOIN Categories c;
```

product_name	category_name
Laptop	Beauty & Health
Laptop	Toys
Laptop	Sports
Laptop	Home Appliances
Laptop	Books
Laptop	Fashion & Clothing
Laptop	Electronics
T-shirt	Beauty & Health
T-shirt	Toys
T-shirt	Sports
T-shirt	Home Appliances
T-shirt	Books
T-shirt	Fashion & Clothing
T-shirt	Electronics
Novel	Beauty & Health
Novel	Toys
Novel	Sports
Novel	Home Appliances
Novel	Books
Novel	Fashion & Clothing
Novel	Electronics
Smartphone	Beauty & Health
Smartphone	Toys
Smartphone	Sports
Smartphone	Home Appliances
Smartphone	Books
Smartphone	Fashion & Clothing
Smartphone	Electronics
Headphones	Beauty & Health
Headphones	Toys
Headphones	Sports
Headphones	Home Appliances
Headphones	Books
Headphones	Fashion & Clothing

Headphones	Electronics
Jeans	Beauty & Health
Jeans	Toys
Jeans	Sports
Jeans	Home Appliances
Jeans	Books
Jeans	Fashion & Clothing
Jeans	Electronics
Cricket Bat	Beauty & Health
Cricket Bat	Toys
Cricket Bat	Sports
Cricket Bat	Home Appliances
Cricket Bat	Books
Cricket Bat	Fashion & Clothing
Cricket Bat	Electronics
Microwave Oven	Beauty & Health
Microwave Oven	Toys
Microwave Oven	Sports
Microwave Oven	Home Appliances
Microwave Oven	Books
Microwave Oven	Fashion & Clothing
Microwave Oven	Electronics
Doll	Beauty & Health
Doll	Toys
Doll	Sports
Doll	Home Appliances
Doll	Books
Doll	Fashion & Clothing
Doll	Electronics
Face Cream	Beauty & Health
Face Cream	Toys
Face Cream	Sports
Face Cream	Home Appliances
Face Cream	Books
Face Cream	Fashion & Clothing
Face Cream	Electronics