MYSQL Project :

1.How many orders has each customer placed?

```
select
c.Name, count(o.orderID) as total_order
from customers c
join orders  o on c.customerID = o.orderID
group by c.Name;
```

	Name	total_order
▶	Aarav Mehta	1
	Rhea Kapoor	1
	Rehan Gupta	1
	Ananya Sharma	1
	Ayaan Malhotra	1
	Lavanya Rathi	1

2.Which customers have placed more than 1 order?

```
select
c.Name, count(o.orderID) from customers c
join orders o on c.customerID = o.customerID
group by c.Name
having count(o.orderID) > 1;
```

	Name	count(o.orderID)
▶	Aarav Mehta	3
	Ananya Sharma	3
	Rohan Singh	2
	Priya Patel	2
	Kabir Joshi	3
	Sneha Verma	3

3.What is the latest order date for each customer?

```
select
c.Name,max(o.orderDate) as lateset_date
from customers c
join orders o on c.customerID = o.customerID
group by c.Name;
```

	Name	lateset_date
▶	Aarav Mehta	2025-07-14
	Ananya Sharma	2025-07-15
	Rohan Singh	2025-07-13
	Priya Patel	2025-07-16
	Kabir Joshi	2025-07-18
	Sneha Verma	2025-07-20

4. Which customers placed orders in June 2025?

```
select
c.Name, o.OrderDate
from customers c
join orders o on c.customerID = o.customerID
where o.orderDate between '2025-06-01' AND '2025-06-30';
```

	Name	OrderDate
▶	Aarav Mehta	2025-06-01
	Ananya Sharma	2025-06-02
	Rohan Singh	2025-06-03
	Priya Patel	2025-06-04
	Kabir Joshi	2025-06-05
	Sneha Verma	2025-06-06

5.Has customer 'Priya Patel' ever placed an order?

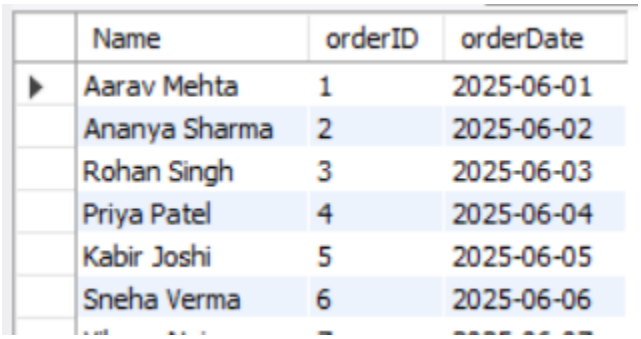
```
select
count(*) as priya_order
from orders o
where o.customerID = (
select customerID from customers where Name = 'priya patel');
```

	priya_order
▶	2

6.List all orders along with the customer name.

```
select
c.Name,o.orderID,o.orderDate
from orders o
```

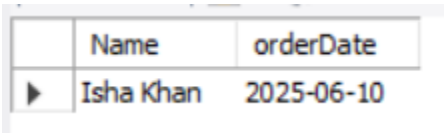
join customers c on c.customerID = o.customerID;



	Name	orderID	orderDate
▶	Aarav Mehta	1	2025-06-01
	Ananya Sharma	2	2025-06-02
	Rohan Singh	3	2025-06-03
	Priya Patel	4	2025-06-04
	Kabir Joshi	5	2025-06-05
	Sneha Verma	6	2025-06-06

7.Which customer placed order with OrderID = 10?

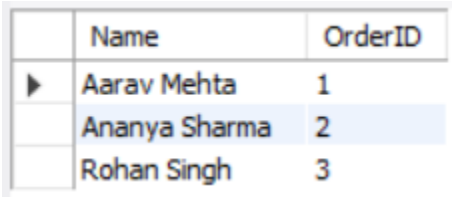
```
select
c.Name, o.orderDate
from customers c
join orders o on c.customerID = o.customerID
where o.OrderID = 10;
```



	Name	orderDate
▶	Isha Khan	2025-06-10

8.List names of customers who placed order IDs 1, 2, or 3.

```
select
c.Name, o.OrderID
from customers c
join orders o on c.customerID = o.customerID
where o.OrderID  in (1,2,3);
```

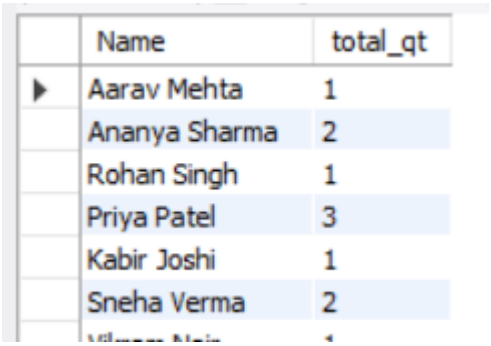


	Name	OrderID
▶	Aarav Mehta	1
	Ananya Sharma	2
	Rohan Singh	3

9.Total quantity of products ordered by each customer.

```
select
c.Name,sum(od.Quantity) as total_qt
from Customers c
join Orders o on c.customerID = o.customerID
join orderDetails od on o.orderID = od.orderID
```

group by c.Name;



Name	total_qt
Aarav Mehta	1
Ananya Sharma	2
Rohan Singh	1
Priya Patel	3
Kabir Joshi	1
Sneha Verma	2

10.How many different products were ordered in each order?

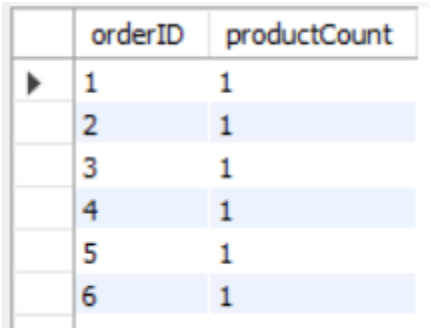
select

o.orderID,count(distinct od.productID) as productCount

from orders o

join orderDetails od on o.orderID = od.orderID

group by o.orderID;



orderID	productCount
1	1
2	1
3	1
4	1
5	1
6	1

11.List product name along with its category name.

select

p.Name,c.categoryName

from products p

join categories c on p.categoryID = c.categoryID;

Name	categoryName
iPhone 14	Mobiles & Tablets
Samsung Galaxy	Mobiles & Tablets
Tablet Cover	Mobiles & Tablets
Smart Pen	Mobiles & Tablets
Mobile Stand	Mobiles & Tablets
USB Cable	Mobiles & Tablets

12.How many products are there in each category?

```
select
c.categoryName, count(p.productID)
from products p
join categories c on p.categoryID = c.categoryID
group by c.categoryName;
```

categoryName	count(p.productID)
Mobiles & Tablets	6
Laptops & Computers	7
Televisions	2
Home Appliances	6
Men's Clothing	2
Women's Clothing	3

13.Which are the top 5 most expensive products?

```
select
Name,Price
from products
order by price desc limit 5;
```

Name	Price
LG OLED TV	120000
MacBook Air	99900
Sony Bravia	85000
iPhone 14	79900
DSLR Camera	69999

14.List products with stock less than 50 and their category name.

```
select
p.Name,p.stockQuantity,c.categoryName
from products p
join categories c on c.categoryID = p.productID
where p.stockQuantity < 50;
```

Name	stockQuantity	categoryName
Samsung Galaxy	30	Mobiles & Tablets
MacBook Air	20	Laptops & Computers
Dell Inspiron	25	Televisions
LG OLED TV	15	Home Appliances
Sony Bravia	10	Men's Clothing
Washing Machine	18	Women's Clothing

15.Which product has the highest discount amount?

```
select
p.Name , d.discountAmount
from products p
join discounts d on d.productID = p.productID
order by d.discountAmount desc limit 1;
```

	Name	discountAmount
▶	LG OLED TV	10000

16.Total discount amount provided per category.

```
select
c.categoryName,sum(d.discountAmount) as totalDiscount
from categories c
join products p on p.categoryID = c.categoryID
join discounts d on d.productID = p.productID
group by c.categoryName;
```

	categoryName	totalDiscount
▶	Mobiles & Tablets	9000
	Laptops & Computers	10000
	Televisions	15000
	Home Appliances	7500
	Men's Clothing	300
	Women's Clothing	950

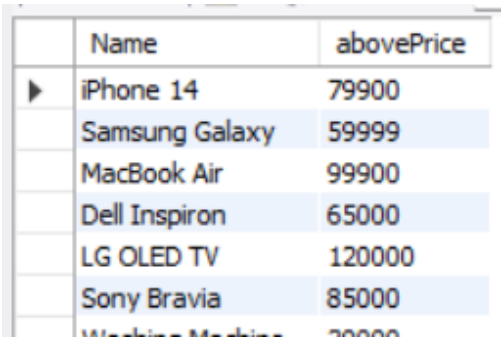
17.List product names with their final price after discount.

```
select
p.Name, (p.price - d.discountAmount) as finalPrice
from products p
join discounts d on p.productID = d.productID;
```

	Name	finalPrice
▶	iPhone 14	74900
	Samsung Galaxy	55999
	MacBook Air	92900
	Dell Inspiron	62000
	LG OLED TV	110000
	Sony Bravia	80000

18.Which products are priced above the average product price?

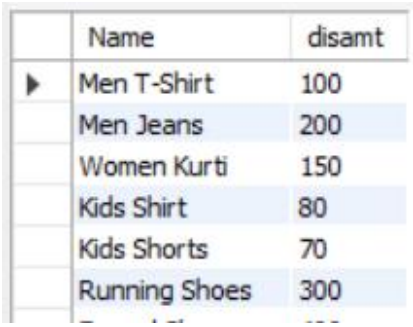
```
select
Name,price as abovePrice
from products where price > (select avg(price) from products);
```



Name	abovePrice
iPhone 14	79900
Samsung Galaxy	59999
MacBook Air	99900
Dell Inspiron	65000
LG OLED TV	120000
Sony Bravia	85000

19.List products that have a discount less than 500.

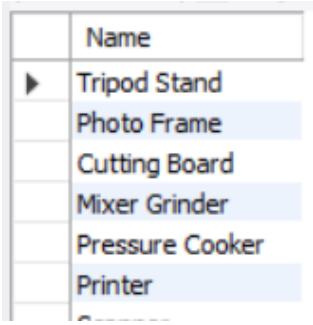
```
select
p.Name,d.discountAmount  as disamt
from products p
join discounts d on d.productID = p.productID
where d.discountAmount < 500;
```



Name	disamt
Men T-Shirt	100
Men Jeans	200
Women Kurti	150
Kids Shirt	80
Kids Shorts	70
Running Shoes	300

20.List products that do not have any discount.

```
select
Name from products
where productID not in (select productID from discounts);
```



Name
Tripod Stand
Photo Frame
Cutting Board
Mixer Grinder
Pressure Cooker
Printer

21. List all customers who have given a review with a rating of 5.

```
select
c.Name,r.rating
from customers c
join reviews r on r.customerID = c.customerID
where r.rating = 5;
```

Name	rating
Aarav Mehta	5
Rohan Singh	5
Sneha Verma	5
Aditya Das	5
Devansh Yadav	5
Manav Bhatt	5
Nikhil Sinha	5

22.Find all products that have a discount of more than ₹2000 and are currently in stock.

```
select
p.Name,d.discountamount,p.StockQuantity
from products p
join discounts d on p.productID = d.productID
where d.discountAmount > 2000 & p.StockQuantity  > 0;
```

Name	discountamount	StockQuantity
iPhone 14	5000	50
Samsung Galaxy	4000	30
MacBook Air	7000	20
Dell Inspiron	3000	25
LG OLED TV	10000	15
Sony Bravia	5000	10

23. Find the most expensive product in each category.

```
select
categoryID,Name,price
from products p1
where price = (select max(price) from products p2 where p1.categoryID = p2.categoryID);
```

categoryID	Name	price
2	iPhone 14	79900
3	MacBook Air	99900
4	LG OLED TV	120000
5	Refrigerator	40000
6	Men Jeans	1299
8	Kids Shirt	399

24. Show the average rating for each product (only if it has been reviewed).

```
select
p.Name,avg(r.rating)
from products p
join reviews r on r.productId = p.productID
group by p.Name;
```

Name	avg(r.rating)
iPhone 14	5.0000
Samsung Galaxy	4.0000
MacBook Air	5.0000
Dell Inspiron	3.0000
LG OLED TV	4.0000
Sony Bravia	5.0000

25. Find names of all customers who ordered a product that costs more than ₹50,000.

```
select
distinct c.Name
from customers c
join orders o on c.customerID = o.customerID
join orderDetails od on od.orderID = od.orderID
join products p on p.productID = od.productID
where p.price > 50000;
```

Name
Aarav Mehta
Ananya Sharma
Rohan Singh
Priya Patel
Kabir Joshi
Sneha Verma

26. Show the number of orders placed for each product.

```
select
p.Name,count(od.orderID) as TotalOrders
from products p
join orderDetails od on od.productID = p.productID
group by p.Name;
```

Name	TotalOrders
LG OLED TV	1
Men Jeans	1
Running Shoes	2
Washing Machine	2
MacBook Air	2
Gold Necklace	1

27. Find all orders that took more than 5 days to deliver.

```
select
o.orderID,s.shipDate,s.deliveryDate
from orders o
join shipping s on s.orderID = o.orderID
where datediff(s.deliveryDate,s.shipDate) >= 5;
```

orderID	shipDate	deliveryDate
8	2025-06-08	2025-06-13
17	2025-06-17	2025-06-22
18	2025-06-18	2025-06-23
19	2025-06-19	2025-06-24
20	2025-06-20	2025-06-25
21	2025-06-21	2025-06-26

28.Get the top 5 most ordered products (by quantity).

```
select
p.Name, sum(od.quantity) as totalQty
from products p
join orderDetails od on od.productID = p.productID
group  by  p.Name
order by totalQty desc limit 5;
```

Name	totalQty
Washing Machine	5
Men T-Shirt	4
Formal Shoes	3
Dell Inspiron	3
Running Shoes	3

29.Show product names and prices that have never been ordered.

```
select
p.Name,p.price
from products p
```

```
where p.productID not in (
   select distinct productID from orderDetails);
```

	Name	price
▶	LED Bulb	199
	Notebook	99
	Baby Diapers	899
	Guitar	6500
	Dog Food	799
	Car Charger	499

30. Find the total amount (price × quantity) each customer has spent.

```
select
c.Name,sum(p.price * od.quantity) as totalAmt
from customers c
join orders o on o.customerID = c.customerID
join orderDetails od on od.orderID = o.orderID
join products p on p.productID = od.productID
group by c.Name;
```

	Name	totalAmt
▶	Aarav Mehta	120000
	Ananya Sharma	2598
	Rohan Singh	2999
	Priya Patel	90000
	Kabir Joshi	99900
	Sneha Verma	50000

31. Which products have been reviewed by more than 3 customers?

```
select
p.Name,count(r.reviewID) as reviewed
from products p
join reviews r on r.productID = p.productID
group by p.Name
having reviewed > 3;
```

	Name	reviewed
▶	iPhone 14	4

32. Find all orders placed in the month of June 2025.

```
SELECT * FROM Orders
WHERE OrderDate LIKE '2025-06%';
```

OrderID	CustomerID	OrderDate
1	1	2025-06-01
2	2	2025-06-02
3	3	2025-06-03
4	4	2025-06-04
5	5	2025-06-05
6	6	2025-06-06

33. List customers who have reviewed products they did not order.

```
select
distinct c.Name
from Customers c
join Reviews r on c.CustomerID = r.CustomerID
where not exists (
        select 1 from Orders o
   join OrderDetails od on od.OrderID = o.OrderID
   where o.CustomerID = r.CustomerID and od.ProductID = r.ProductID
);
```

Name
Aarav Mehta
Ananya Sharma
Rohan Singh
Priya Patel
Kabir Joshi
Sneha Verma

34. Find the category that has the most products listed.

```
select
c.CategoryName, count(p.productID) as totalProducts
from Categories c
join products p on p.categoryID = c.categoryID
group by c.CategoryName
order by totalProducts desc limit 1;
```

CategoryName	totalProducts
Industrial & Scientific	8

35. Show top 5 customers who spent the most in total.

```
select
c.Name, sum(p.price * od.quantity) as totalSpent
from customers c
join orders o on o.customerID = c.customerID
join orderDetails od on od.orderID = o.orderID
join products p on p.productID = od.productID
group by c.Name
order by totalSpent desc limit 5;
```

Name	totalSpent
Tanya Choudhary	130000
Aarav Mehta	120000
Varun Chatterjee	99900
Kabir Joshi	99900
Priya Patel	90000

36. Which products have a discount more than 25% of their price?

```
select
p.Name, p.price, d.discountAmount
from products p
join discounts d on d.productID = p.productID
where (p.price * 25 / 100) < d.discountAmount;
```

Name	price	discountAmount
Women Saree	1999	500
LED Bulb	199	50
Heater	2800	800
Water Bottle	299	100
Pet Shampoo	299	100
Board Markers	149	40

37. Display average shipping time (in days) for all orders.

```
select
avg(datediff(deliveryDate,shipDate)) as AvgShippingDate
from shipping;
```

AvgShippingDate
4.5250

38. Show orders that include at least 3 different products.

```
select
o.orderID,count(distinct p.productID) as countProduct
from orders o
join orderDetails od on od.orderID = o.orderID
join products p on p.productID = od.productID
group by o.orderID
having countProduct >= 3;
```

orderID	countProduct
1	4

39. Find forth highest product price.

```
select * from products order by price desc limit 1 offset 3 ;
```

ProductID	Name	Price	StockQuantity	CategoryID
1	iPhone 14	79900	50	2

40. Find customers who haven't placed any order.

```
select
c.Name from customers c
where c.customerID not in (select customerID from orders);
```

Name
Rhea Kapoor
Ayaan Malhotra
Tara Iyer
Rehan Gupta
Lavanya Rathi

41.Customers who ordered more than 2 products in a single order.

```
select
o.orderID,c.Name,count(od.productID) as productCount
from orders o
join customers c on c.customerID = o.customerID
join orderDetails od on od.orderID = o.orderID
group by o.orderID,c.Name
```

having productCount > 2;

	orderID	Name	productCount
▶	1	Aarav Mehta	4

42. Products that have never been ordered

select

p.productID,p.Name from products p

where p.productID not in (select productID from orderDetails);

	productID	Name
▶	31	LED Bulb
	32	Notebook
	33	Baby Diapers
	34	Guitar
	35	Dog Food
	36	Car Charger

43. Show customers who used the most discounted product in their order

select

c.Name,p.Name as productName, d.discountAmount

from orders o

join customers c on c.customerID = o.customerID

join orderDetails od on o.orderID = od.orderID

join products p on od.productID = p.productID

join discounts d on d.productID = p.productID

where d.discountAmount = (select max(discountAmount) from discounts);

	Name	productName	discountAmount
▶	Aarav Mehta	LG OLED TV	10000

44. Which products were ordered the most (by total quantity)?

select

p.Name,sum(od.Quantity) as totalQty

from products p

join orderDetails od on p.productID = od.productID

group by p.Name

order by totalQty desc limit 1;

	Name	totalQty
▶	Washing Machine	5

45. Find which category has the highest average price of products.

```
select
c.CategoryName, avg(p.price) as avgPrice
from products p
join categories c on c.CategoryID = p.CategoryID
group by c.CategoryName
order by avgPrice desc limit 1;
```

	CategoryName	avgPrice
▶	Televisions	102500.0000

46.What is the total number of orders placed?

```
select count(*) as total_order from orders;
```

	total_order
▶	50

47.Top 5 customers with the highest number of orders

```
SELECT C.Name, COUNT(O.OrderID) AS OrderCount
FROM Customers C
JOIN Orders O ON C.CustomerID = O.CustomerID
GROUP BY C.CustomerID
ORDER BY OrderCount DESC
LIMIT 5;
```

	Name	OrderCount
▶	Aarav Mehta	3
	Ananya Sharma	3
	Kabir Joshi	3
	Sneha Verma	3
	Rohan Singh	2

48. Show orders that contain products from more than one category.

```
SELECT od.OrderID
FROM OrderDetails od
JOIN Products p ON od.ProductID = p.ProductID
```

```
GROUP BY od.OrderID
HAVING COUNT(DISTINCT p.CategoryID) > 1;
```

	OrderID
▶	1

49.Find total orders per day for the last 10 days in the dataset.

```
select
orderDate,count(orderID) as orderDate
from orders
group by orderDate
order by orderDate desc limit 10;
```

	orderDate	orderDate
▶	2025-06-01	1
	2025-06-02	1
	2025-06-03	1
	2025-06-04	1
	2025-06-05	1

50.Show all categories that have at least 1 product with price over ₹50,000

```
select
distinct c.CategoryName
from categories c
join products p on p.categoryID = c.categoryID
where p.price > 50000;
```

	CategoryName
▶	Mobiles & Tablets
	Laptops & Computers
	Televisions
	Camera & Accessories