

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
4	16:19:12	CREATE TABLE Products (ProductID INT PRIMARY KEY, ProductName VARCHAR(100), Category VAR...	0 row(s) affected	0.031 sec
5	16:19:12	CREATE TABLE Orders (OrderID INT PRIMARY KEY, CustomerID INT, OrderDate DATE, TotalAmount...	0 row(s) affected	0.078 sec
6	16:19:12	CREATE TABLE OrderItems (OrderItemID INT PRIMARY KEY, OrderID INT, ProductID INT, Quantity I...	0 row(s) affected	0.079 sec
7	16:19:12	INSERT INTO Customers VALUES (1, 'Alice Smith', 'alice@example.com', 'USA'), (2, 'Bob Johnson', 'bob@exampl...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
8	16:19:12	INSERT INTO Products VALUES (101, 'Laptop', 'Electronics', 899.99), (102, 'Smartphone', 'Electronics', 499.99), (...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.000 sec
9	16:19:12	INSERT INTO Orders VALUES (1001, 1, '2025-06-01', 979.99), (1002, 2, '2025-06-05', 519.99), (1003, 3, '2025-06...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.000 sec
10	16:19:12	INSERT INTO OrderItems VALUES (1, 1001, 101, 1, 899.99), (2, 1001, 104, 1, 79.99), (3, 1002, 102, 1, 499.99), (...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
11	16:19:31	USE ecommerce_db	0 row(s) affected	0.000 sec
12	16:19:31	SELECT c.Name, SUM(o.TotalAmount) AS TotalSpent FROM Customers c JOIN Orders o ON c.CustomerID = o.C...	3 row(s) returned	0.000 sec / 0.000 sec
13	16:19:52	USE ecommerce_db	0 row(s) affected	0.000 sec
14	16:19:52	SELECT o.OrderID, c.Name AS CustomerName, p.ProductName, o.Quantity FROM Orders o INNER JOIN Custom...	5 row(s) returned	0.000 sec / 0.000 sec
15	16:19:52	SELECT c.Name, o.OrderID, o.TotalAmount FROM Customers c LEFT JOIN Orders o ON c.CustomerID = o.Custo...	3 row(s) returned	0.000 sec / 0.000 sec
16	16:19:52	SELECT o.OrderID, c.Name FROM Orders o RIGHT JOIN Customers c ON o.CustomerID = c.CustomerID	3 row(s) returned	0.000 sec / 0.000 sec
17	16:20:01	USE ecommerce_db	0 row(s) affected	0.000 sec
18	16:20:01	SELECT ProductName, Price FROM Products WHERE Price > (SELECT AVG(Price) FROM Products)	2 row(s) returned	0.000 sec / 0.000 sec
19	16:20:12	USE ecommerce_db	0 row(s) affected	0.000 sec
20	16:20:12	CREATE VIEW CustomerSpending AS SELECT c.CustomerID, c.Name, SUM(o.TotalAmount) AS TotalSpent FRO...	0 row(s) affected	0.000 sec
21	16:20:12	SELECT * FROM CustomerSpending ORDER BY TotalSpent DESC	3 row(s) returned	0.000 sec / 0.000 sec
22	16:20:23	USE ecommerce_db	0 row(s) affected	0.000 sec
23	16:20:23	CREATE INDEX idx_customer_id ON Orders(CustomerID)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
24	16:20:23	CREATE INDEX idx_product_id ON OrderItems(ProductID)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	Activate Windows Go to Settings to activate Windows.
25	16:20:23	CREATE INDEX idx_order_id ON OrderItems(OrderID)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	

ecommerce_database* query1 query2 query3 query4 query5*

1 • **USE** ecommerce_db;
2
3 • **SELECT** c.Name, SUM(o.TotalAmount) **AS** TotalSpent
4 **FROM** Customers c
5 **JOIN** Orders o **ON** c.CustomerID = o.CustomerID
6 **GROUP BY** c.CustomerID
7 **ORDER BY** TotalSpent **DESC**
8 **LIMIT** 5;
9

Result Grid Filter Rows: Export: Wrap Cell Content: [IA](#)

	Name	TotalSpent
▶	Alice Smith	979.98
	Bob Johnson	519.98
	Carlos Lopez	19.99

ecommerce_database* query1 query2 query3 query4 query5*

1 • **USE** ecommerce_db;
2
3 # INNER JOIN: Show orders with customer and product info
4 • **SELECT** o.OrderID, c.Name **AS** CustomerName, p.ProductName, oi.Quantity
5 **FROM** Orders o
6 **INNER JOIN** Customers c **ON** o.CustomerID = c.CustomerID
7 **INNER JOIN** OrderItems oi **ON** o.OrderID = oi.OrderID
8 **INNER JOIN** Products p **ON** oi.ProductID = p.ProductID;

Result Grid Filter Rows: Export: Wrap Cell Content: [IA](#)

	OrderID	CustomerName	ProductName	Quantity
▶	1001	Alice Smith	Laptop	1
	1001	Alice Smith	Headphones	1
	1002	Bob Johnson	Smartphone	1
	1002	Bob Johnson	Headphones	1
	1003	Carlos Lopez	Book	1

ecommerce_database* query1 query2 query3 query4 query5*

7 **INNER JOIN** OrderItems oi **ON** o.OrderID = oi.OrderID
8 **INNER JOIN** Products p **ON** oi.ProductID = p.ProductID;
9
10 # LEFT JOIN: List all customers and their orders
11 • **SELECT** c.Name, o.OrderID, o.TotalAmount
12 **FROM** Customers c
13 **LEFT JOIN** Orders o **ON** c.CustomerID = o.CustomerID;
14

Result Grid Filter Rows: Export: Wrap Cell Content:

	Name	OrderID	TotalAmount
▶	Alice Smith	1001	979.98
	Bob Johnson	1002	519.98
	Carlos Lopez	1003	19.99

ecommerce_database* query1 query2 query3 query4 query5*

13 **LEFT JOIN** Orders o **ON** c.CustomerID = o.CustomerID;
14
15 # RIGHT JOIN (if supported): List all orders and their customer
16
17 • **SELECT** o.OrderID, c.Name
18 **FROM** Orders o
19 **RIGHT JOIN** Customers c **ON** o.CustomerID = c.CustomerID;
20

Result Grid Filter Rows: Export: Wrap Cell Content:

	OrderID	Name
▶	1001	Alice Smith
	1002	Bob Johnson
	1003	Carlos Lopez

ecommerce_database* query1 query2 query3 x query4 query5*

1 • **USE** ecommerce_db;
2
3 # Get products that are priced above the average product price
4 • **SELECT** ProductName, Price
5 **FROM** Products
6 **WHERE** Price > (
7 **SELECT** AVG(Price) **FROM** Products
8);
9

Result Grid Filter Rows: Export: Wrap Cell Content:

	ProductName	Price
▶	Laptop	899.99
	Smartphone	499.99

ecommerce_database* query1 query2 query3 query4 x query5*

1 • **USE** ecommerce_db;
2
3 # View: customer total spending
4 • **CREATE VIEW** CustomerSpending **AS**
5 **SELECT** c.CustomerID, c.Name, SUM(o.TotalAmount) **AS** TotalSpent
6 **FROM** Customers c
7 **JOIN** Orders o **ON** c.CustomerID = o.CustomerID
8 **GROUP BY** c.CustomerID;
9
10 • **SELECT** * **FROM** CustomerSpending **ORDER BY** TotalSpent **DESC**;

Result Grid Filter Rows: Export: Wrap Cell Content:

	CustomerID	Name	TotalSpent
▶	1	Alice Smith	979.98
	2	Bob Johnson	519.98
	3	Carlos Lopez	19.99

ecommerce_database* query1 query2 query3 query4 query5*

1 • **USE** ecommerce_db;

2

3 • **SHOW INDEX FROM** Orders;

4 • **SHOW INDEX FROM** Customers;

5

6 # often filtering by Country or OrderDate:

7 • **CREATE INDEX** idx_customers_country **ON** Customers(Country);

Result Grid Filter Rows: Export: Wrap Cell Content: [T](#)

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
customers	0	PRIMARY	1	CustomerID	A	3				BTREE			YES	

Output

Action Output

#	Time	Action	Message
8	16:47:38	SHOW INDEX FROM Orders	2 row(s) returned
9	16:47:38	SHOW INDEX FROM Customers	1 row(s) returned
10	16:47:38	CREATE INDEX idx_product_id ON OrderItems(ProductID)	Error Code: 1061. Duplicate key name 'idx_product_id'
11	16:48:16	USE ecommerce_db	0 row(s) affected
12	16:48:16	SHOW INDEX FROM Orders	2 row(s) returned
13	16:48:16	SHOW INDEX FROM Customers	1 row(s) returned
14	16:48:16	CREATE INDEX idx_customers_country ON Customers(Country)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
15	16:48:16	CREATE INDEX idx_orders_date ON Orders(OrderDate)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
16	16:48:16	CREATE INDEX idx_customers_name ON Customers(Name)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
17	16:48:16	CREATE INDEX idx_products_category ON Products(Category)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0