

#	Time	Action	Message	Duration / Fetch
✓ 1	13:59:08	CREATE DATABASE ecommerce_db	1 row(s) affected	0.031 sec
✓ 2	13:59:08	USE ecommerce_db	0 row(s) affected	0.000 sec
✓ 3	14:00:41	CREATE TABLE customers ( customer_id INT PRIMARY KEY, name VARCHAR(100), email VARCHAR(100), ...	0 row(s) affected	0.047 sec
✓ 4	14:00:59	CREATE TABLE categories ( category_id INT PRIMARY KEY, name VARCHAR(100) )	0 row(s) affected	0.047 sec
✓ 5	14:01:17	CREATE TABLE products ( product_id INT PRIMARY KEY, name VARCHAR(100), category_id INT, price DEC...	0 row(s) affected	0.047 sec
✓ 6	14:01:29	CREATE TABLE orders ( order_id INT PRIMARY KEY, customer_id INT, order_date DATE, total_amount DEC...	0 row(s) affected	0.093 sec
✓ 7	14:01:44	CREATE TABLE order_items ( item_id INT PRIMARY KEY, order_id INT, product_id INT, quantity INT, pric...	0 row(s) affected	0.078 sec
✓ 8	14:11:33	INSERT INTO customers (customer_id,name,email,city,state) VALUES (1,'Alice Johnson','alice@example.com','Mum...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.031 sec
✓ 9	14:11:58	INSERT INTO categories (category_id,name) VALUES (1,'Electronics'), (2,'Clothing'), (3,'Books'), (4,'Home & Kitchen')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.047 sec
✓ 10	14:12:13	INSERT INTO products (product_id,name,category_id,price) VALUES (1,'Smartphone',1,15000.00), (2,'Laptop',1,5...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
✓ 11	14:12:26	INSERT INTO orders (order_id,customer_id,order_date,total_amount) VALUES (1,1,'2024-05-10',15499.00), (2,2,'20...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.032 sec
✓ 12	14:12:55	INSERT INTO order_items (item_id,order_id,product_id,quantity,price) VALUES (1,1,1,1,15000.00), (2,1,3,1,499...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.032 sec

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigation: Administration - Data Import/Res...

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Administration Schemas

Information

No object selected

Query 1: Administration - Data Import/Res...

```

1 -- 1. Show all customers from Maharashtra
2 SELECT * FROM customers WHERE state = 'Maharashtra';
3
4 -- 2. Show top 3 highest value orders
5 SELECT * FROM orders ORDER BY total_amount DESC LIMIT 3;
6
7 -- 3. Show total orders per city
8 SELECT city, COUNT(order_id) AS total_orders
9 FROM customers
10 JOIN orders ON customers.customer_id = orders.customer_id
11 GROUP BY city;
12
13

```

Result Grid

city	total_orders
Mumbai	1
Pune	1
Bangalore	1
Hyderabad	1
Chennai	1

customers 1 orders 2 Result 3 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 3	14:00:41	CREATE TABLE customers ( customer_id INT PRIMARY KEY, name VARCHAR(100), email VARCHAR(100), city...	0 row(s) affected	0.047 sec
✓ 4	14:00:59	CREATE TABLE categories ( category_id INT PRIMARY KEY, name VARCHAR(100) )	0 row(s) affected	0.047 sec

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No object selected

Query 1: Administration - Data Import/Res...

```

1 -- INNER JOIN
2 SELECT o.order_id, c.name AS customer_name, p.name AS product_name, oi.quantity, oi.price
3 FROM orders o
4 JOIN customers c ON o.customer_id = c.customer_id
5 JOIN order_items oi ON o.order_id = oi.order_id
6 JOIN products p ON oi.product_id = p.product_id;
7
8 -- LEFT JOIN
9 SELECT p.name AS product, oi.order_id, oi.quantity
10 FROM products p
11 LEFT JOIN order_items oi ON p.product_id = oi.product_id;
12
13 -- RIGHT JOIN
14 SELECT o.order_id, oi.product_id, p.name
15 FROM order_items oi
16 RIGHT JOIN products p ON oi.product_id = p.product_id
17 RIGHT JOIN orders o ON oi.order_id = o.order_id;
18

```

Result Grid

order_id	product_id	name
1	1	Smartphone
1	3	T-Shirt
2	5	Novel
3	4	Cookware Set
4	2	Laptop
5	3	T-Shirt
5	5	Novel

Result 4 Result 5 Result 6 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 17	14:54:23	SELECT p.name AS product, oi.order_id, oi.quantity FROM products p LEFT JOIN order_items oi ON p.product_id = oi...	7 row(s) returned	0.000 sec / 0.000 sec
✓ 18	14:54:23	SELECT o.order_id, oi.product_id, p.name FROM order_items oi RIGHT JOIN products p ON oi.product_id = p.product...	7 row(s) returned	0.000 sec / 0.000 sec

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Query 1 x Administration - Data Import/Res...

```
1 SELECT name, email
2 FROM customers
3 WHERE customer_id IN (
4   SELECT customer_id FROM orders
5   WHERE total_amount > (SELECT AVG(total_amount) FROM orders)
6 );
7
8
```

Result Grid

name	email
Alice Johnson	alice@example.com
David Khan	david@example.com

Export: | Wrap Cell Contents: |

SQL Additions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	14:55:55	SELECT name, email FROM customers WHERE customer_id IN ( SELECT customer_id FROM orders WHERE tot...	WHERE tot... 2 row(s) returned	0.000 sec / 0.000 sec
20	14:56:21	SELECT name, email FROM customers WHERE customer_id IN ( SELECT customer_id FROM orders WHERE tot...	WHERE tot... 2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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Administration Schemas

Information

No object selected

Query 1 x Administration - Data Import/Res...

```
1 -- AGGREGATES
2 SELECT cat.name, SUM(oi.price * oi.quantity) AS total_revenue
3 FROM order_items oi
4 JOIN products p ON oi.product_id = p.product_id
5 JOIN categories cat ON p.category_id = cat.category_id
6 GROUP BY cat.name;
7
8 SELECT c.name, AVG(o.total_amount) AS avg_order
9 FROM customers c
10 JOIN orders o ON c.customer_id = o.customer_id
11 GROUP BY c.name;
12
```

Result Grid

name	avg_order
Alice Johnson	15499.000000
Bob Smith	299.000000
Charlie Lee	2000.000000
David Khan	55499.000000
Eva Patel	549.000000

Export: | Wrap Cell Contents: |

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Action Output

#	Time	Action	Message	Duration / Fetch
21	14:58:12	SELECT cat.name, SUM(oi.price * oi.quantity) AS total_revenue FROM order_items oi JOIN products p ON oi product...	4 row(s) returned	0.000 sec / 0.000 sec
22	14:58:13	SELECT c.name, AVG(o.total_amount) AS avg_order FROM customers c JOIN orders o ON c.customer_id = o.customer...	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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Query 1 x Administration - Data Import/Res...

```
-- VIEW
1 CREATE VIEW customer_ordering_view AS
2 SELECT c.name AS customer_name, o.order_date, p.name AS product_name, oi.quantity
3 FROM customers c
4 JOIN orders o ON c.customer_id = o.customer_id
5 JOIN order_items oi ON o.order_id = oi.order_id
6 JOIN products p ON oi.product_id = p.product_id;
7
8 SELECT * FROM customer_ordering_view;
```

Result Grid

customer_name	order_date	product_name	quantity
Alice Johnson	2024-05-10	Smartphone	1
Alice Johnson	2024-05-10	T-Shirt	1
Bob Smith	2024-05-11	Novel	1
Charlie Lee	2024-05-12	Cookware Set	1
David Khan	2024-05-13	Laptop	1
Eva Patel	2024-05-14	T-Shirt	1
Eva Patel	2024-05-14	Novel	1

customer\_ordering\_view 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	15:01:46	CREATE VIEW customer_ordering_view AS SELECT c.name AS customer_name, o.order_date, p.name AS product_name, oi.quantity	0 row(s) affected	0.032 sec
2	15:01:46	SELECT * FROM customer_ordering_view LIMIT 0, 1000	7 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

SQLAdditions

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MySQL Workbench

Local instance MySQL80 x

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Administration Schemas

Information

No object selected

Query 1 x Administration - Data Import/Res...

```
-- OPTIMIZATION
1
2 CREATE INDEX idx_customer_id ON orders(customer_id);
3
4 CREATE INDEX idx_product_id ON order_items(product_id);
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	15:03:13	CREATE INDEX idx_customer_id ON orders(customer_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.078 sec
4	15:03:13	CREATE INDEX idx_product_id ON order_items(product_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec

Object Info Session

SQLAdditions

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