MySQL 9.3 Command Line Cli ×

```
mysql>
mysql>- Create customers table
Query OW, 0 rows affected (0.000 sec)

mysql> CREATE TABLE customers (

-> customers, did in Prilmany MEY,
-> name VARCHAR(50)
-> customers, did in Customers
Query OW, 0 rows affected (0.000 sec)

mysql>- customers, did in Customers
Query OW, 0 rows affected (0.329 sec)

mysql>- Insert data into customers
Query OW, 0 rows affected (0.000 sec)

mysql Newspl NISSET INITO customers (customerid, name, email, country) VALUES
-> (1, 'Alice', 'A
```

```
mysql> INSERT INTO products (product_id, product_name, category, price) VALUES

> (101, 'Laptpo', 'Electronics', 880,80),

> (103, 'Book', 'Stationery', 30,80),

> (104, 'Headphone', 'Electronics', 180,80);

Query OK, 'Howa refected (0.107 sec)

mysql>
mysql>
mysql>
mysql> - Create orders table
query OK, 'O rows affected (0.805 sec)

mysql> order_id INT PRIMARY KEY,

- order_id INT PRIMARY KEY,

- order_date DATE,

- order_date DATE,

- total_amount DECIMAL(10, 2),

- total_amount DECIMAL(10, 2),

- product and the content of the content of
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```
mysql> CREATE TABLE order_items (

-> item_id INT PRIMARY KEY,
-> order_id INT,
-> product_id INT,
-> product_id INT,
-> price DECIMAL(10, 2),
-> FOREIGN KEY (order_id) REFERENCES orders(order_id),
-> FOREIGN KEY (product_id) REFERENCES products(product_id)
-> );
Query OK, 0 rows affected (0.665 sec)

mysql>
mysql>
-- Insert data into order_items
Query OK, 0 rows affected (0.011 sec)

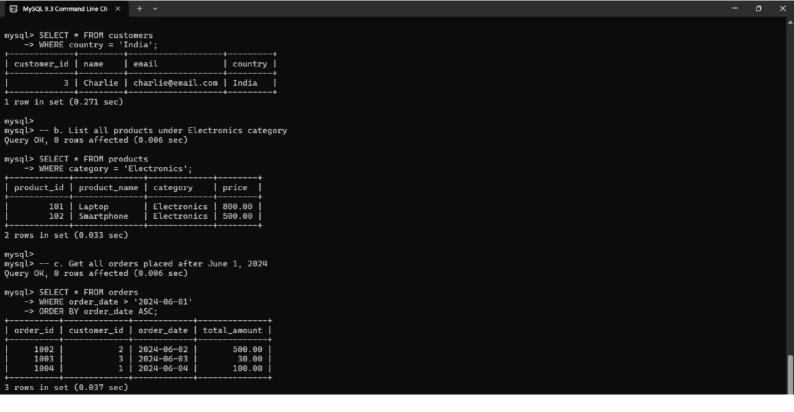
mysql> mysql> rows affected (0.011 sec)

mysql> insert into order_items (item_id, order_id, product_id, quantity, price) VALUES
-> (1, 1001, 101, 1, 800.00),
-> (2, 1001, 102, 1, 500.00),
-> (3, 1002, 102, 1, 500.00),
-> (4, 1003, 103, 1, 30.00),
-> (5, 1004, 104, 1, 100.00);
Query OK, 5 rows affected (0.053 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

MySQL 9.3 Command Line Cli × + ∨

mysql> SHOW TABLES;

| Tables\_in\_ecommerce |
| customers |
| order\_items |
| orders |
| products |
| tows in set (0.434 sec)



mysql> mysql> -- a. Show orders with customer names Query OK, 0 rows affected (0.015 sec) mysql> SELECT o.order\_id, c.name, o.order\_date, o.total\_amount
 -> FROM orders o
 -> INNER JOIN customers c ON o.customer\_id = c.customer\_id; | order\_date | total\_amount | | order\_id | name 1001 | Alice | 2024-06-01 1004 | Alice | 2024-06-04 1002 | Bob | 2024-06-02 1003 | Charlie | 2024-06-03 1300.00 100.00 500.00 30.00 4 rows in set (0.013 sec) mysql> mysql> -- b. Show order items with product names and customer names Query OK, 0 rows affected (0.005 sec) mysql> SELECT oi.item\_id, c.name AS customer\_name, p.product\_name, oi.quantity, oi.price
 -> FROM order\_items oi
 -> JOIN orders o ON oi.order\_id = o.order\_id
 -> JOIN customers c ON o.customer\_id = c.customer\_id
 -> JOIN products p ON oi.product\_id = p.product\_id; | item\_id | customer\_name | product\_name | quantity | price Alice Alice Alice Bob Charlie 800.00 500.00 100.00 500.00 Laptop Smartphone Headphones Smartphone Book 30.00 5 rows in set (0.010 sec)

mysql>|

MySQL 9.3 Command Line Cli 

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mysql>
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mysql> -- a. List customers who spent more than 500 total
Query OK, 0 rows affected (0.008 sec)

mysql> SELECT * FROM customers
-> WHERE customer_id IN (
-> SELECT customer_id
-> FROM orders
-> GROUP BY customer_id
-> HAVING SUM(total_amount) > 500
-> );

| customer_id | name | email | country |

| 1 | Alice | alice@email.com | USA |

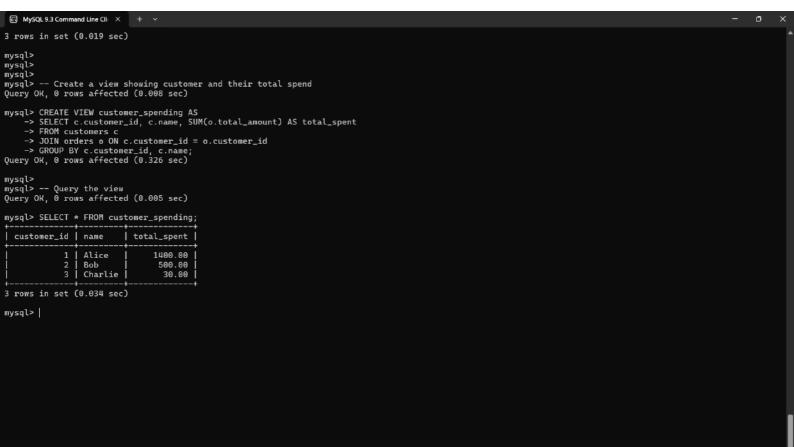
| 1 row in set (0.277 sec)

mysql> |
```

```
mysql> -- a. Total revenue
Query OK, 0 rows affected (0.007 sec)
mysql> SELECT SUM(total_amount) AS total_revenue
-> FROM orders;
1930.00
1 row in set (0.257 sec)
mysql> -- b. Average order value Query OK, 0 rows affected (0.004 sec)
mysql> SELECT AVG(total_amount) AS avg_order_value
    -> FROM orders;
avg_order_value
          482.500000
1 row in set (0.013 sec)
mysql> -- c. Revenue by category Query OK, 0 rows affected (0.007 sec)
mysql> SELECT p.category, SUM(oi.quantity * oi.price) AS revenue
   -> FROM order_items oi
   -> JOIN products p ON oi.product_id = p.product_id
   -> GROUP BY p.category;
| category
                     revenue
  Electronics
Stationery
Accessories
                        1800.00
30.00
                         100.00
3 rows in set (0.019 sec)
mysql>
```

MySQL 9.3 Command Line Cli 

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ysql> CREATE INDEX idx_orders_customer_id ON orders(customer_id); uery OK, 0 rows affected (0.668 sec) vecords: 0 Duplicates: 0 Warnings: 0																	
ysql> CREATE INDEX idx_order_items_order_id ON order_items(order_id); uery OK, 0 rows affected (0.520 sec) ecords: 0 Duplicates: 0 Warnings: 0																	
ysql> CREATE INDEX idx_order_items_product_id ON order_items(product_id); uery OK, 0 rows affected (0.528 sec) ecords: 0 Duplicates: 0 Warnings: 0																	
nysql> SHOW INDEXES FROM orders;																	
	 n_unique	Key_name		Seq_in_i	ndex	Column_r	name	Collatio	on   C	Cardinal	ity	Sub_part		Null	Index_ty	pe   Comment	In
	0   YES	PRIMARY NULL   idx_orders_c			1	'   order_id   customer	i	A				NULL	NULL		BTREE	·	
	YES İ	NULL															
rows in set (0.182 sec) ysql> SHOW INDEXES FROM order_items;																	
+	Non_uni		+ ne oression	ı	Seq_:	in_index	Coli									Index_type	
+   order_items 	1 (	0   PRIMARY		1					A	ı		5	NULL			BTREE	
order_items		1   idx_ord YES   NUL	L Ī						А	ı		4	NULL			BTREE	
order_items   +	· 1	1   idx_ord YES   NUL	д — <u>Г</u>					duct_id   +		 +		4	NULL			BTREE	
+3 rows in set		t	+														

MySQL 9.3 Command Line Cli × + ∨