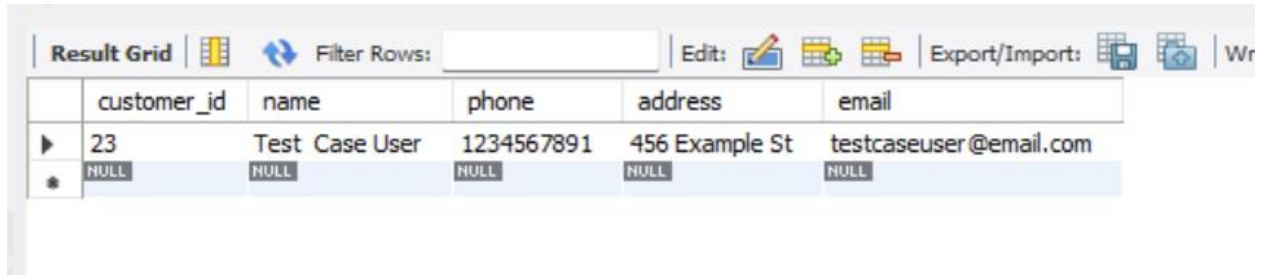# TEST CASES FOR DATABASE

Test Case 1: Insert a New Customer

Query: INSERT INTO customers (name, phone, address, email)

VALUES ('Test Case User', '1234567891', '456 Example St', 'testcaseuser@email.com');
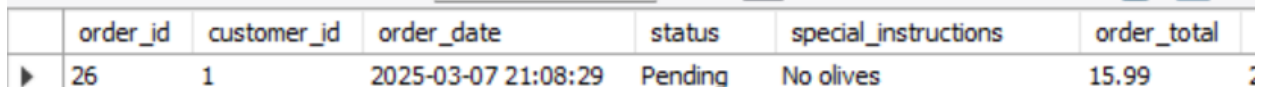
Output:

customer_id	name	phone	address	email
23	Test Case User	1234567891	456 Example St	testcaseuser@email.com
NULL	NULL	NULL	NULL	NULL

Test Case 2: Insert an Order

Query: INSERT INTO orders (customer_id, order_date, status, special_instructions, order_total) VALUES (1, NOW(), 'Pending', 'No olives', 15.99);
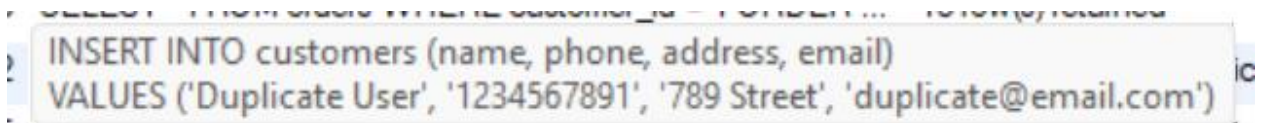
Output:

order_id	customer_id	order_date	status	special_instructions	order_total
26	1	2025-03-07 21:08:29	Pending	No olives	15.99

Test case 3: Insert Duplicate Phone Number (Should Fail)

Query: INSERT INTO customers (name, phone, address, email) VALUES ('Duplicate User', '1234567891', '789 Street', 'duplicate@email.com');

Output:

```
INSERT INTO customers (name, phone, address, email)
VALUES ('Duplicate User', '1234567891', '789 Street', 'duplicate@email.com')
```

Test case 4: Fetch Order Details Using Stored Procedure

Query: CALL GetOrderDetails(1);

Output:

Test case 5: Fetch All Orders for a Customer

Query: SELECT * FROM orders WHERE customer_id = 1;

Output:

Test case 6: Fetch Order Status Updates

Query: SELECT * FROM order_status_updates WHERE order_id = 1;

Output:

id	order_id	status_update_time	new_status
1	1	2025-02-24 23:09:24	Preparing
6	1	2025-03-05 05:51:36	Preparing
7	1	2025-03-05 05:51:36	Preparing
8	1	2025-03-05 05:51:57	Out for Delivery
9	1	2025-03-05 05:51:57	Out for Delivery
10	1	2025-03-05 05:52:16	Delivered
11	1	2025-03-05 05:52:16	Delivered
12	1	2025-03-05 06:03:47	Preparing
13	1	2025-03-05 06:03:47	Out for Delivery
14	1	2025-03-05 06:03:47	Delivered
NULL	NULL	NULL	NULL

Test case 7: Update Customer Information

Query: UPDATE customers SET phone = '9876543211' WHERE customer_id = 1;

Output:

customer_id	name	phone	address	email
1	Test Customer	9876543211	123 Test St	testcustomer@email.com
NULL	NULL	NULL	NULL	NULL

Test case 8:

Query: DELETE FROM orders WHERE order_id = 1;

Output:

Before deletion:

order_id	customer_id	order_date	status	special_instructions	order_total	last_status_update
1	1	2025-02-24 23:09:24	Delivered	Gluten-free crust, add extra mushrooms	21.98	2025-03-05 19:07:12

After deletion: SELECT * FROM orders WHERE order_id = 1;

	order_id	customer_id	order_date	status	special_instructions	order_total	last_status_update
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Test case 9 : Insert Order Item with Invalid Pizza ID (Should Fail)

Query: INSERT INTO order_items (order_id, pizza_id, size, quantity) VALUES (1, 999, 'Large', 1);

Output:

Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`pizza_shop`.`order_items`, CONSTRAINT `order_items_ibfk_1` FOREIGN KEY (`order_id`) REFERENCES `orders` (`order_id`) ON DELETE CASCADE)

Test case 10: Insert Order Without Required Fields (Should Fail)

Query: INSERT INTO orders (order_date, status, special_instructions, order_total) VALUES (NOW(), 'Pending', 'Missing Customer ID', 12.99);

Output:

❌ 151 13:30:41 INSERT INTO orders (order_date, status, special_instructions, order_total) VALUES (NOW()... Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`pizza_sh... 0.0