



DML (for MyShop)

1. Insert a Product:

```
INSERT INTO myshop.products (name, quantity) VALUES ('Laptop', 15);
```

- **INSERT INTO**: Adds new rows to a table.
- Inserts a product named 'Laptop' with a quantity of 15 into the `products` table.

2. Insert Another Product:

```
INSERT INTO myshop.products (name, quantity) VALUES ('Smartphone', 30);
```

- Inserts a product named 'Smartphone' with a quantity of 30 into the `products` table.

3. Insert a Product with Default Quantity:

```
INSERT INTO myshop.products (name) VALUES ('Headphones');
```

- Inserts a product named 'Headphones' with the default quantity of 0 into the `products` table.

4. Insert a Category:

```
INSERT INTO myshop.categories (name) VALUES ('Electronics');
```

- Inserts a category named 'Electronics' into the `categories` table.

5. Insert Another Category:

```
INSERT INTO myshop.categories (name) VALUES ('Accessories');
```

- Inserts a category named 'Accessories' into the `categories` table.

6. Insert a Client:

```
INSERT INTO myshop.clients (name) VALUES ('Mykola');
```

- Inserts a client named 'Mykola' into the `clients` table.

7. Insert Another Client:

```
INSERT INTO myshop.clients (name) VALUES ('Patron');
```

- Inserts a client named 'Patron' into the `clients` table.

8. Insert an Order Using a SELECT to Get Client ID:

```
INSERT INTO myshop.orders (order_id, client_id)
SELECT 1, client_id FROM myshop.clients WHERE name = 'Patron';
```

- **SELECT**: Retrieves data from a table.
- Inserts an order with `order_id` 1 for the client named 'Patron' into the `orders` table.

9. Insert an Order Using a Known Client ID:

```
INSERT INTO myshop.orders (order_id, client_id)
VALUES (2, 1);
```

- Inserts an order with `order_id` 2 for the client with `client_id` 1 into the `orders` table.

10. Insert Product-Category Association Using a SELECT:

```
INSERT INTO myshop.product_category (product_id, category_id)
SELECT p.product_id, c.category_id
FROM myshop.products AS p, myshop.categories AS c
WHERE p.name = 'Laptop' AND c.name = 'Electronics';
```

- Inserts an association between the product 'Laptop' and the category 'Electronics' into the `product_category` table.

11. Insert Product-Category Association Using Known IDs:

```
INSERT INTO myshop.product_category (product_id, category_id) VALUES (2, 2);
```

- Inserts an association between the product with `product_id` 2 and the category with `category_id` 2 into the `product_category` table.

12. Insert Ordered Product Using a SELECT:

```
INSERT INTO myshop.ordered_products (product_id, order_id, quantity)
SELECT product_id, 1, 10 FROM myshop.products WHERE name = 'Smartphone';
```

- Inserts an ordered product with `product_id` for 'Smartphone', `order_id` 1, and quantity 10 into the `ordered_products` table.

13. Insert Ordered Product Using Known IDs:

```
INSERT INTO myshop.ordered_products (product_id, order_id, quantity)
VALUES (1, 1, 5);
```

- Inserts an ordered product with `product_id` 1, `order_id` 1, and quantity 5 into the `ordered_products` table.

14. Update Product Quantity:

```
UPDATE myshop.products SET quantity = quantity + 10 WHERE name = 'Laptop';
```

- **UPDATE**: Modifies existing rows in a table.
- Increases the quantity of the product 'Laptop' by 10 in the `products` table.

15. Change Product Name:

```
UPDATE myshop.products SET name = 'Portable Speaker' WHERE name = 'Headphones';
```

- Changes the name of the product 'Headphones' to 'Portable Speaker' in the `products` table.

16. Change Category Name:

```
UPDATE myshop.categories SET name = 'Electronic Devices' WHERE name = 'Electronics';
```

- Changes the name of the category 'Electronics' to 'Electronic Devices' in the `categories` table.

17. Update Client Name:

```
UPDATE myshop.clients SET name = 'Dog Patron' WHERE name = 'Patron';
```

- Changes the name of the client 'Patron' to 'Dog Patron' in the `clients` table.

18. Change Client ID for an Order:

```
UPDATE myshop.orders SET client_id = (SELECT client_id FROM myshop.clients WHERE name = 'Mykola') WHERE order_id = 1;
```

- Changes the `client_id` of the order with `order_id` 1 to the `client_id` of 'Mykola' in the `orders` table.

19. Update Order Date:

```
UPDATE myshop.orders SET order_date = '2024-01-01' WHERE order_id = 2;
```

- Changes the `order_date` of the order with `order_id` 2 to '2024-01-01' in the `orders` table.

20. Change Category Associated with a Product:

```
UPDATE myshop.product_category  
SET category_id = (SELECT category_id FROM myshop.categories WHERE name = 'Accessories')  
WHERE product_id = (SELECT product_id FROM myshop.products WHERE name = 'Laptop');
```

- Changes the `category_id` associated with the product 'Laptop' to the `category_id` of 'Accessories' in the `product_category` table.

21. Update Quantity of a Product in an Order:

```
UPDATE myshop.ordered_products SET quantity = 15 WHERE order_id = 1 AND  
product_id = (SELECT product_id FROM myshop.products WHERE name =  
'Smartphone');
```

- Updates the quantity to 15 for the product 'Smartphone' in the order with `order_id` 1 in the `ordered_products` table.

22. Link a Different Product to an Order:

```
UPDATE myshop.ordered_products  
SET product_id = (SELECT product_id FROM myshop.products WHERE name =  
'Portable Speaker')  
WHERE order_id = 1 AND product_id = (SELECT product_id FROM  
myshop.products WHERE name = 'Laptop');
```

- Changes the `product_id` from 'Laptop' to 'Portable Speaker' in the order with `order_id` 1 in the `ordered_products` table.