DATABASE or E-commerce

```sql
CREATE DATABASE ecommerce;
USE ecommerce;

-- Customer table
CREATE TABLE customers(
customer_id INT AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(50),
city VARCHAR(50),
pincode VARCHAR(50)
);

-- Items table
CREATE TABLE items(
item_id INT PRIMARY KEY,
item_name VARCHAR(100),
item_price DECIMAL(10,2)
);
```

```sql
-- Order table
CREATE TABLE orders (
order_id INT PRIMARY KEY,
customer_id INT,
order_date DATE,
total_amount DECIMAL(10,2),
FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
);

-- Order items table
CREATE TABLE order_items (
order_id INT,
item_id INT,
quantity INT,
item_price DECIMAL(10,2),
FOREIGN KEY (order_id) REFERENCES orders(order_id),
FOREIGN KEY (item_id) REFERENCES items(item_id)
);

USE ecommerce;
SHOW TABLES;
```

```sql
SELECT * FROM customers LIMIT 5;
SELECT * FROM items LIMIT 5;
SELECT * FROM orders LIMIT 5;
SELECT * FROM order_items LIMIT 5;

-- Test
-- Get all orders sorted by order date
SELECT * FROM orders ORDER BY order_date DESC;
-- Get all orders of a specific customer
SELECT * FROM orders WHERE customer_id = 101;
-- Get orders made on a particular date
SELECT * FROM orders WHERE order_date = '2025-11-05';
```

```sql
-- Get full order details (customer + items)
SELECT
    o.order_id,
    c.name AS customer_name,
    i.item_name,
    oi.quantity,
    oi.item_price,
    o.total_amount,
    o.order_date
FROM orders o
JOIN customers c ON o.customer_id = c.customer_id
JOIN order_items oi ON o.order_id = oi.order_id
JOIN items i ON oi.item_id = i.item_id;
-- Get number of items sold per day (by item ID)
SELECT
    o.order_date,
    oi.item_id,
    SUM(oi.quantity) AS total_items_sold
FROM orders o
JOIN order_items oi ON o.order_id = oi.order_id
GROUP BY o.order_date, oi.item_id;
```