

```
1 • CREATE SCHEMA `e-commerce_platform` ;
2 • USE `e-commerce_platform`;
3
4 • CREATE TABLE customers (
5     customer_id INT PRIMARY KEY AUTO_INCREMENT,
6     customer_name VARCHAR(25) NOT NULL,
7     email VARCHAR(25) NOT NULL,
8     password VARCHAR(25) NOT NULL,
9     role VARCHAR(10) NOT NULL
10 );
11
12 • CREATE TABLE product_categories (
13     category_id INT PRIMARY KEY AUTO_INCREMENT,
14     category_name VARCHAR(10) NOT NULL
15 );
16
```

```
17 ● ○ CREATE TABLE products (  
18     product_id INT AUTO_INCREMENT,  
19     product_name VARCHAR(25) NOT NULL,  
20     description VARCHAR(25),  
21     price DECIMAL(10, 2) NOT NULL,  
22     category_id INT,  
23     PRIMARY KEY (product_id, category_id),  
24     FOREIGN KEY (category_id) REFERENCES product_categories(category_id)  
25 );  
26  
27 ● ○ CREATE TABLE orders (  
28     order_id INT AUTO_INCREMENT,  
29     customer_id INT,  
30     order_date DATETIME NOT NULL,  
31     total_amount DECIMAL(10, 2) NOT NULL,  
32     PRIMARY KEY (order_id),  
33     FOREIGN KEY (customer_id) REFERENCES customers(customer_id)  
34 );  
35
```

```
36 • ○ CREATE TABLE order_details (  
37     order_id INT,  
38     product_id INT,  
39     quantity INT UNSIGNED NOT NULL,  
40     unit_price DECIMAL(10, 2),  
41     PRIMARY KEY (order_id, product_id),  
42     FOREIGN KEY (order_id) REFERENCES orders(order_id),  
43     FOREIGN KEY (product_id) REFERENCES products(product_id)  
44 );  
45  
46 • CREATE INDEX idx_customer_email ON customers(email);  
47  
48 • CREATE INDEX idx_order_customer ON orders(customer_id);  
49
```

```
50 • CREATE VIEW v_product_sales AS
51     SELECT
52         p.product_name AS product,
53         pc.category_name AS category,
54         SUM(od.quantity) AS total_quantity_sold
55     FROM
56         order_details od
57     JOIN products p ON od.product_id = p.product_id
58     JOIN product_categories pc ON p.category_id = pc.category_id
59     GROUP BY
60         product,
61         category;
62
63 • CREATE VIEW v_admin_users AS
64     SELECT
65         customer_id,
66         customer_name,
67         email
68     FROM
69         customers
70     WHERE
71         role = 'admin';
```