**Database Schema**

**1. products Table**

CREATE TABLE products (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

sku VARCHAR(100) UNIQUE NOT NULL,

price DECIMAL(10, 2) NOT NULL,

quantity INT NOT NULL,

is\_active BOOLEAN DEFAULT TRUE,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP

);

**2. orders Table**

CREATE TABLE orders (

id INT AUTO\_INCREMENT PRIMARY KEY,

total\_price DECIMAL(10, 2) NOT NULL DEFAULT 0,

order\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP

);

**3. order\_items Table**

CREATE TABLE order\_items (

id INT AUTO\_INCREMENT PRIMARY KEY,

order\_id INT NOT NULL,

product\_id INT NOT NULL,

quantity INT NOT NULL,

price DECIMAL(10, 2) NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (order\_id) REFERENCES orders(id) ON DELETE CASCADE,

FOREIGN KEY (product\_id) REFERENCES products(id) ON DELETE CASCADE

);

**Seed Data**

**1. Seed products Table**

INSERT INTO products (name, sku, price, quantity, is\_active)

VALUES

('Product A', 'SKU001', 10.50, 50, TRUE),

('Product B', 'SKU002', 15.75, 30, TRUE),

('Product C', 'SKU003', 7.25, 100, TRUE),

('Product D', 'SKU004', 20.00, 25, TRUE),

('Product E', 'SKU005', 5.50, 75, TRUE);

**2. Seed orders and order\_items Tables**

INSERT INTO orders (total\_price) VALUES (42.50), (78.25);

INSERT INTO order\_items (order\_id, product\_id, quantity, price)

VALUES

(1, 1, 2, 10.50),

(1, 3, 1, 7.25),

(2, 2, 3, 15.75),

(2, 5, 2, 5.50);







