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CREATE DATABASE EcommerceDB;
USE EcommerceDB;

CREATE TABLE Customer (
    customer_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    email VARCHAR(100) UNIQUE,
    address TEXT
);

CREATE TABLE Category (
    category_id INT AUTO_INCREMENT PRIMARY KEY,
    category_name VARCHAR(100) NOT NULL
);

CREATE TABLE Product (
    product_id INT AUTO_INCREMENT PRIMARY KEY,
    product_name VARCHAR(100) NOT NULL,
    price DECIMAL(10, 2) NOT NULL,
    category_id INT NOT NULL,
    FOREIGN KEY (category_id)
        REFERENCES Category(category_id)
        ON DELETE SET NULL
        ON UPDATE CASCADE
);

CREATE TABLE CustomerOrder (
    order_id INT AUTO_INCREMENT PRIMARY KEY,
    customer_id INT NOT NULL,
    order_date DATE NOT NULL,
    status VARCHAR(50) NOT NULL,
    FOREIGN KEY (customer_id)
        REFERENCES Customer(customer_id)
        ON DELETE CASCADE
        ON UPDATE CASCADE
);

CREATE TABLE OrderItem (
    order_id INT NOT NULL,
    product_id INT NOT NULL,
    quantity INT NOT NULL,
    price DECIMAL(10, 2) NOT NULL,
    PRIMARY KEY (order_id, product_id),
    FOREIGN KEY (order_id)
        REFERENCES CustomerOrder(order_id)
        ON DELETE CASCADE
        ON UPDATE CASCADE,
    FOREIGN KEY (product_id)
        REFERENCES Product(product_id)
        ON DELETE CASCADE
        ON UPDATE CASCADE
);

CREATE TABLE Payment (

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payment_id INT AUTO_INCREMENT PRIMARY KEY,  
order_id INT NOT NULL,  
payment_date DATE NOT NULL,  
amount DECIMAL(10, 2) NOT NULL,  
method VARCHAR(50) NOT NULL,  
FOREIGN KEY (order_id)  
    REFERENCES CustomerOrder(order_id)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE  
);
```