**JAVA CODING CHALLENGE**

**DDL COMMANDS:**

**USERS:**

CREATE TABLE users (

user\_id INT PRIMARY KEY,

username VARCHAR(50) NOT NULL,

password VARCHAR(100) NOT NULL,

role VARCHAR(10) CHECK (role IN ('Admin', 'User')) NOT NULL

);

INSERT INTO users (user\_id, username, password, role) VALUES

(1, 'admin1', 'adminpass1', 'Admin'),

(2, 'user1', 'userpass1', 'User'),

(3, 'user2', 'userpass2', 'User'),

(4, 'admin2', 'adminpass2', 'Admin'),

(5, 'user3', 'userpass3', 'User'),

(6, 'user4', 'userpass4', 'User'),

(7, 'user5', 'userpass5', 'User');

**PRODUCTS**CREATE TABLE products (

product\_id INT PRIMARY KEY,

product\_name VARCHAR(100) NOT NULL,

description TEXT,

price DOUBLE NOT NULL,

quantity\_in\_stock INT NOT NULL,

type VARCHAR(20) CHECK (type IN ('Electronics', 'Clothing')) NOT NULL,

brand VARCHAR(50),

warranty\_period INT,

size VARCHAR(10),

color VARCHAR(20)

);

-- Electronics Products

INSERT INTO products (product\_id, product\_name, description, price, quantity\_in\_stock, type, brand, warranty\_period) VALUES

(101, 'Smartphone', 'Android smartphone', 299.99, 50, 'Electronics', 'Samsung', 12),

(102, 'Laptop', '14-inch laptop with SSD', 749.99, 30, 'Electronics', 'Dell', 24),

(103, 'Headphones', 'Wireless headphones', 89.99, 100, 'Electronics', 'Sony', 6);

-- Clothing Products

INSERT INTO products (product\_id, product\_name, description, price, quantity\_in\_stock, type, size, color) VALUES

(104, 'T-Shirt', 'Cotton T-shirt', 19.99, 100, 'Clothing', 'L', 'Black'),

(105, 'Jeans', 'Blue denim jeans', 39.99, 70, 'Clothing', 'M', 'Blue'),

(106, 'Jacket', 'Winter jacket', 99.99, 20, 'Clothing', 'XL', 'Gray'),

(107, 'Sneakers', 'Casual sneakers', 59.99, 60, 'Clothing', '10', 'White');

**ORDERS**CREATE TABLE orders (

order\_id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT,

product\_id INT,

FOREIGN KEY (user\_id) REFERENCES users(user\_id),

FOREIGN KEY (product\_id) REFERENCES products(product\_id)

);

INSERT INTO orders (user\_id, product\_id) VALUES

(2, 101),

(2, 104),

(3, 102),

(3, 105),

(4, 103),

(5, 106),

(6, 107);