

## Assignment: Designing a Database Schema for an E-commerce Application

-> Give an e-commerce application with users, products, and orders, design a database schema to efficiently store and retrieve data. Write sql queries to retrieve all orders made by a particular user.

### ➤ Users Table :

```
CREATE TABLE Users (  
    user_id INT PRIMARY KEY,  
    username VARCHAR(255),  
    email VARCHAR(255),  
    password VARCHAR(255)  
);
```

### ➤ Products Table

```
CREATE TABLE Products (  
    product_id INT PRIMARY KEY,  
    name VARCHAR(255),  
    price DECIMAL(10,2)  
);
```

### ➤ Orders Table

```
CREATE TABLE Orders (  
    order_id INT PRIMARY KEY,  
    user_id INT,  
    order_date DATE,  
    FOREIGN KEY (user_id) REFERENCES Users(user_id)  
);
```

### ➤ Orders\_items Table

```
CREATE TABLE Order_Items (  
    order_item_id INT PRIMARY KEY,  
    order_id INT,  
    product_id INT,  
    FOREIGN KEY (order_id) REFERENCES Orders(order_id),  
    FOREIGN KEY (product_id) REFERENCES Products(product_id)  
);
```

Write sql queries to retrieved all orders made by a particular user.

```
SELECT * FROM Orders WHERE user_id = user_id;
```