**Question 1.**

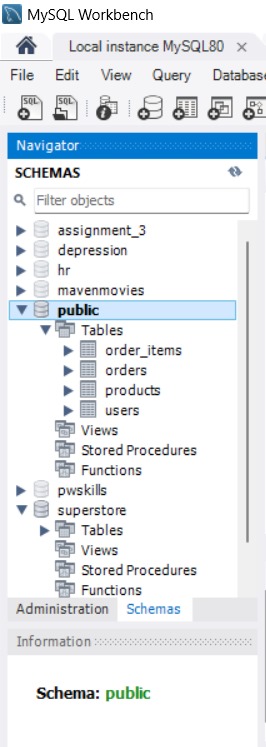
**You are given a dataset of a fictional e-commerce platform. The dataset includes tables for**

**users, products, orders, and order items. Design and write SQL queries to:**

**a. Find the top 5 customers by total spend in the last 30 days.**

**b. Find Most purchased product till date.**

From the given “SQL-Challenge.sql” file, I have created the table in MySQL workbench.



1. **Find the top 5 customers by total spend in the last 30 days.**

**CODE:**

SELECT

    u.user\_id,

    u.username,

    SUM(o.total\_amount) AS total\_spend

FROM

    users u

JOIN

    orders o ON u.user\_id = o.user\_id

WHERE

    o.order\_date >= DATE\_SUB(NOW(), INTERVAL 30 DAY)

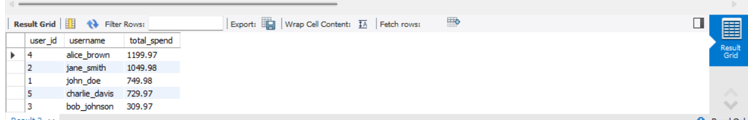
GROUP BY

    u.user\_id, u.username

ORDER BY

    total\_spend DESC

LIMIT 5;

**OUTPUT:**

**b. Find Most purchased product till date.**

**CODE:**

SELECT

    p.product\_id,

    p.product\_name,

    SUM(oi.quantity) AS total\_quantity\_sold

FROM

    products p

JOIN

    order\_items oi ON p.product\_id = oi.product\_id

GROUP BY

    p.product\_id, p.product\_name

ORDER BY

    total\_quantity\_sold DESC

LIMIT 1;

**OUTPUT:**

