**Question 1.**

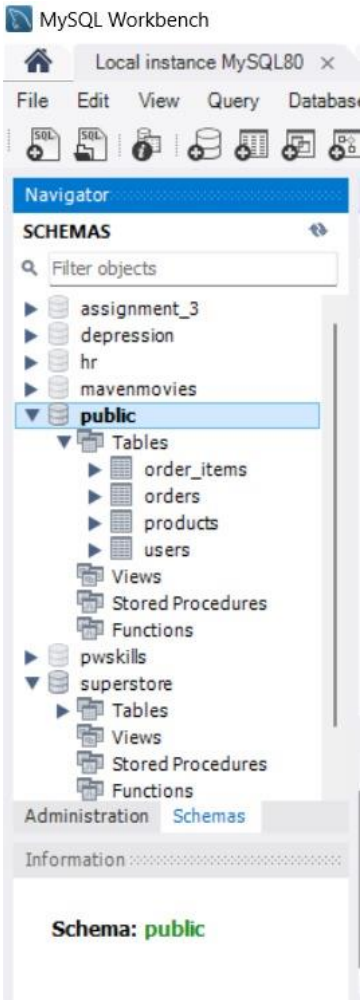
**You are given a dataset of a fictional e-commerce platform. The dataset includes tables for**

**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.

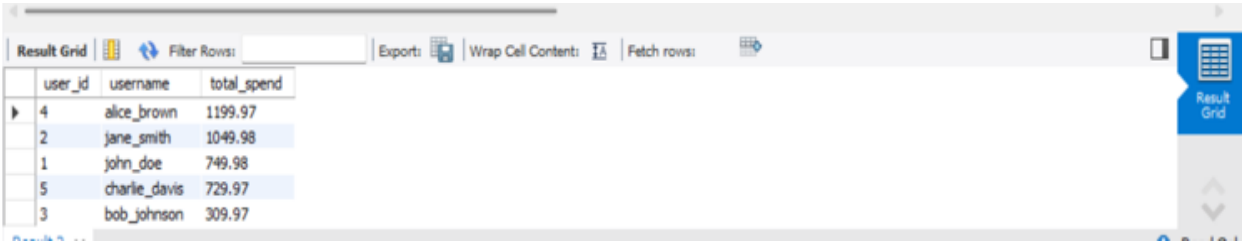


a. **Find the top 5 customers by total spend in the last 30 days.**

**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:**