

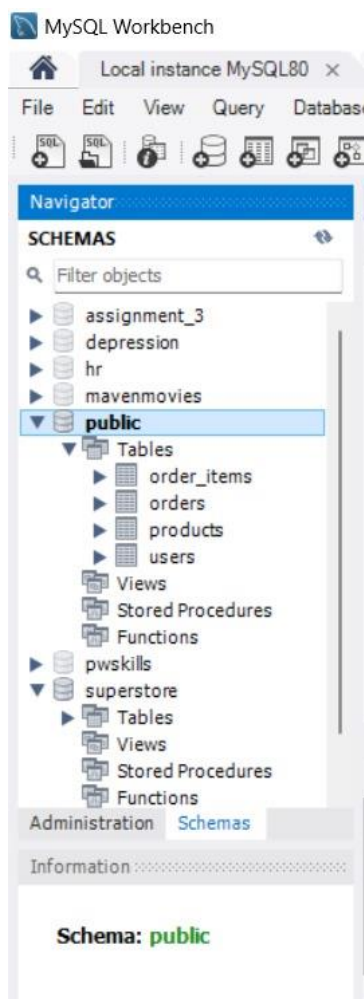
Question 1.

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.

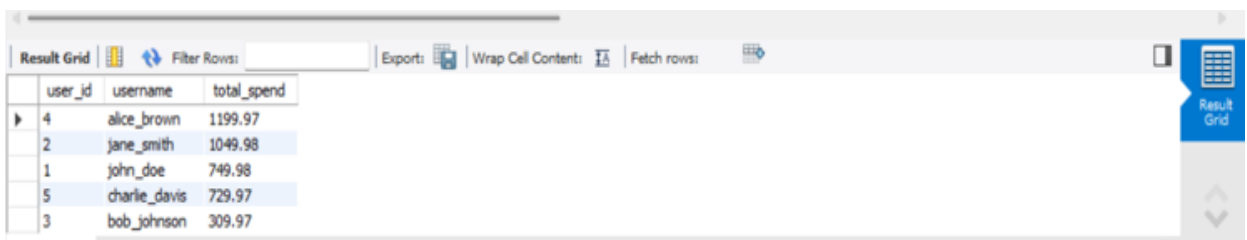


a. Find the top 5 customers by total spend in the last 30 days.

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:



The screenshot shows a database interface with a 'Result Grid' tab. The grid displays the results of the SQL query, showing the top 5 customers by total spend in the last 30 days. The columns are 'user_id', 'username', and 'total_spend'. The rows are ordered by 'total_spend' in descending order.

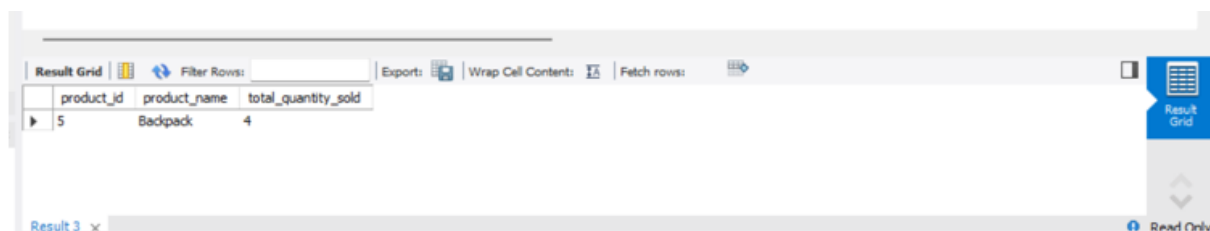
	user_id	username	total_spend
▶	4	alice_brown	1199.97
	2	jane_smith	1049.98
	1	john_doe	749.98
	5	charlie_davis	729.97
	3	bob_johnson	309.97

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:



The screenshot shows a database interface with a 'Result Grid' tab. The grid contains one row of data. The columns are labeled 'product_id', 'product_name', and 'total_quantity_sold'. The row shows product_id 5, product_name 'Backpack', and total_quantity_sold 4. The interface includes a search bar, export options, and a 'Read Only' status indicator.

product_id	product_name	total_quantity_sold
5	Backpack	4