

Problem 2228: Users With Two Purchases Within Seven Days

Problem Information

Difficulty: **Medium**

Acceptance Rate: 46.48%

Paid Only: Yes

Tags: Database

Problem Description

Table: `Purchases`

+-----+-----+ | Column Name | Type | +-----+-----+ | purchase_id | int | | user_id | int | | purchase_date | date | +-----+-----+ purchase_id contains unique values. This table contains logs of the dates that users purchased from a certain retailer.

Write a solution to report the IDs of the users that made any two purchases **at most** 7 days apart.

Return the result table ordered by `user_id`.

The result format is in the following example.

Example 1:

Input: Purchases table: +-----+-----+-----+ | purchase_id | user_id | purchase_date | +-----+-----+-----+ | 4 | 2 | 2022-03-13 | | 1 | 5 | 2022-02-11 | | 3 | 7 | 2022-06-19 | | 6 | 2 | 2022-03-20 | | 5 | 7 | 2022-06-19 | | 2 | 2 | 2022-06-08 | +-----+-----+-----+ **Output:** +-----+ | user_id | +-----+ | 2 | | 7 | +-----+ **Explanation:** User 2 had two purchases on 2022-03-13 and 2022-03-20. Since the second purchase is within 7 days of the first purchase, we add their ID. User 5 had only 1 purchase. User 7 had two purchases on the same day so we add their ID.

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```