2228. Users With Two Purchases Within Seven Days

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.
```