2329. Product Sales Analysis V Premium

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SQL Schema >   Pandas Schema >

Table: `Sales`

```
+-------------+------+
| Column Name | Type |
+-------------+------+
| sale_id     | int  |
| product_id  | int  |
| user_id     | int  |
| quantity    | int  |
+-------------+------+
sale_id contains unique values.
product_id is a foreign key (column with unique values) to Product table.
Each row of this table shows the ID of the product and the quantity purchased by a user.
```

Table: `Product`

```
+-------------+------+
| Column Name | Type |
+-------------+------+
| product_id  | int  |
| price       | int  |
+-------------+------+
product_id contains unique values.
Each row of this table indicates the price of each product.
```

Write a solution to report the spending of each user.

Return the resulting table ordered by `spending` in **descending order**. In case of a tie, order them by `user_id` in ascending order.

The result format is in the following example.

Example 1:

```
Input:
Sales table:
+---------+------------+---------+----------+
| sale_id | product_id | user_id | quantity |
+---------+------------+---------+----------+
| 1       | 1          | 101     | 10       |
| 2       | 2          | 101     | 1        |
| 3       | 3          | 102     | 3        |
| 4       | 3          | 102     | 2        |
| 5       | 2          | 103     | 3        |
+---------+------------+---------+----------+
Product table:
+------------+-------+
| product_id | price |
+------------+-------+
| 1          | 10    |
| 2          | 25    |
| 3          | 15    |
+------------+-------+
Output:
+---------+----------+
| user_id | spending |
+---------+----------+
| 101     | 125      |
| 102     | 75       |
| 103     | 75       |
+---------+----------+
Explanation:
User 101 spent 10 * 10 + 1 * 25 = 125.
User 102 spent 3 * 15 + 2 * 15 = 75.
User 103 spent 3 * 25 = 75.
Users 102 and 103 spent the same amount and we break the tie by their ID while user 101 is on the top.
```

Seen this question in a real interview before?   1/5

Yes   No

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