Problem 2329: Product Sales Analysis V

Problem Information

Difficulty: Easy
Acceptance Rate: 70.60%
Paid Only: Yes
Tags: Database

Problem Description

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.

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
```