

Problem 1398: Customers Who Bought Products A and B but Not C

Problem Information

Difficulty: Medium

Acceptance Rate: 71.65%

Paid Only: Yes

Tags: Database

Problem Description

Table: `Customers`

+-----+-----+ | Column Name | Type | +-----+-----+ | customer_id | int | | customer_name | varchar | +-----+-----+ customer_id is the column with unique values for this table. customer_name is the name of the customer.

Table: `Orders`

+-----+-----+ | Column Name | Type | +-----+-----+ | order_id | int | | customer_id | int | | product_name | varchar | +-----+-----+ order_id is the column with unique values for this table. customer_id is the id of the customer who bought the product "product_name".

Write a solution to report the customer_id and customer_name of customers who bought products *** A***, *** B*** but did not buy the product *** C*** since we want to recommend them to purchase this product.

Return the result table **ordered** by `customer_id` .

The result format is in the following example.

Example 1:

Input: Customers table: +-----+-----+ | customer_id | customer_name | +-----+-----+ | 1 | Daniel | | 2 | Diana | | 3 | Elizabeth | | 4 | Jhon |

```
+-----+-----+ Orders table: +-----+-----+ | order_id |
customer_id | product_name | -----+-----+ | 10 | 1 | A | 20 | 1 | B |
30 | 1 | D | 40 | 1 | C | 50 | 2 | A | 60 | 3 | A | 70 | 3 | B | 80 | 3 | D | 90 | 4 | C |
+-----+-----+ **Output:** +-----+-----+ | customer_id |
customer_name | +-----+-----+ | 3 | Elizabeth | +-----+-----+
**Explanation:** Only the customer_id with id 3 bought the product A and B but not the
product C.
```

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
```