

Problem 1581: Customer Who Visited but Did Not Make Any Transactions

Problem Information

Difficulty: **Easy**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Visits

	Column Name	Type		visit_id	int	
customer_id	int		visit_id	is the column with unique values for this table.		

This table contains information about the customers who visited the mall.

Table:

Transactions

	Column Name	Type		transaction_id	int	
visit_id	int		amount	int	transaction_id	is column with unique values for this table.
						This table contains information about the transactions made during the visit_id.

Write a solution to find the IDs of the users who visited without making any transactions and the number of times they made these types of visits.

Return the result table sorted in

any order

The result format is in the following example.

Example 1:

Input:

```
Visits +-----+-----+ | visit_id | customer_id | +-----+-----+ | 1 | 23 || 2 | 9 || 4 |
30 || 5 | 54 || 6 | 96 || 7 | 54 || 8 | 54 | +-----+-----+ Transactions
+-----+-----+-----+ | transaction_id | visit_id | amount |
+-----+-----+-----+ | 2 | 5 | 310 || 3 | 5 | 300 || 9 | 5 | 200 || 12 | 1 | 910 || 13 | 2 |
970 | +-----+-----+
```

Output:

```
+-----+-----+ | customer_id | count_no_trans | +-----+-----+ | 54 | 2 |
| 30 | 1 || 96 | 1 | +-----+-----+
```

Explanation:

Customer with id = 23 visited the mall once and made one transaction during the visit with id = 12. Customer with id = 9 visited the mall once and made one transaction during the visit with id = 13. Customer with id = 30 visited the mall once and did not make any transactions.

Customer with id = 54 visited the mall three times. During 2 visits they did not make any transactions, and during one visit they made 3 transactions. Customer with id = 96 visited the mall once and did not make any transactions. As we can see, users with IDs 30 and 96 visited the mall one time without making any transactions. Also, user 54 visited the mall twice and did not make any transactions.

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
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def find_customers(visits: pd.DataFrame, transactions: pd.DataFrame) ->
    pd.DataFrame:
```

Solutions

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