

# 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

### MySQL Solution:

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