

# Problem 1045: Customers Who Bought All Products

## Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

Table:

Customer

Column Name	Type
customer_id	int
product_key	int

This table may contain duplicates rows.

customer\_id

is not NULL

product\_key is a foreign key (reference column) to

Product

table.

Table:

Product

Column Name	Type
product_key	int

product\_key is the primary key (column with unique values) for this table.

Write a solution to report the customer ids from the

Customer

table that bought all the products in the

Product

table.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

Customer table: +-----+-----+ | customer\_id | product\_key | +-----+-----+  
| 1 | 5 || 2 | 6 || 3 | 5 || 3 | 6 || 1 | 6 | +-----+-----+ Product table: +-----+ |  
product\_key | +-----+ | 5 | | 6 | +-----+

Output:

+-----+ | customer\_id | +-----+ | 1 | | 3 | +-----+

Explanation:

The customers who bought all the products (5 and 6) are customers with IDs 1 and 3.

## 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(customer: pd.DataFrame, product: pd.DataFrame) ->
    pd.DataFrame:
```

## Solutions

### MySQL Solution:

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