

# Problem 1795: Rearrange Products Table

## Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

Table:

Products

+-----+-----+ | Column Name | Type | +-----+-----+ | product\_id | int | | store1 | int | | store2 | int | | store3 | int | +-----+-----+  
product\_id is the primary key (column with unique values) for this table. Each row in this table indicates the product's price in 3 different stores: store1, store2, and store3. If the product is not available in a store, the price will be null in that store's column.

Write a solution to rearrange the

Products

table so that each row has

(product\_id, store, price)

. If a product is not available in a store, do

not

include a row with that

product\_id

and

store

combination in the result table.

Return the result table in

any order

The result format is in the following example.

Example 1:

Input:

Products table: +-----+-----+-----+-----+ | product\_id | store1 | store2 | store3 |  
+-----+-----+-----+-----+ | 0 | 95 | 100 | 105 | | 1 | 70 | null | 80 |  
+-----+-----+-----+

Output:

+-----+-----+-----+ | product\_id | store | price | +-----+-----+-----+ | 0 | store1 | 95 | | 0 | store2 | 100 | | 0 | store3 | 105 | | 1 | store1 | 70 | | 1 | store3 | 80 |  
+-----+-----+-----+

Explanation:

Product 0 is available in all three stores with prices 95, 100, and 105 respectively. Product 1 is available in store1 with price 70 and store3 with price 80. The product is not available in store2.

## 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 rearrange_products_table(products: pd.DataFrame) -> pd.DataFrame:
```

## **Solutions**

### **MySQL Solution:**

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