

# Problem 3415: Find Products with Three Consecutive Digits

## Problem Information

Difficulty: Easy

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

Table:

Products

+-----+-----+ | Column Name | Type | +-----+-----+ | product\_id | int | | name | varchar | +-----+-----+ product\_id is the unique key for this table. Each row of this table contains the ID and name of a product.

Write a solution to find all

products

whose names contain a

sequence of exactly three consecutive digits in a row

.

Return

the result table ordered by

product\_id

in

ascending

order.

The result format is in the following example.

Note

that the name may contain multiple such sequences, but each should have length three.

Example:

Input:

products table:

```
+-----+-----+ | product_id | name | +-----+-----+ | 1 |  
ABC123XYZ | | 2 | A12B34C | | 3 | Product56789 | | 4 | NoDigitsHere | | 5 | 789Product | | 6 |  
Item003Description | | 7 | Product12X34 | +-----+-----+
```

Output:

```
+-----+-----+ | product_id | name | +-----+-----+ | 1 |  
ABC123XYZ | | 5 | 789Product | | 6 | Item003Description | +-----+-----+
```

Explanation:

Product 1: ABC123XYZ contains the digits 123.

Product 5: 789Product contains the digits 789.

Product 6: Item003Description contains 003, which is exactly three digits.

Note:

Results are ordered by

product\_id

in ascending order.

Only products with exactly three consecutive digits in their names are included in the result.

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

## Solutions

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