

Recyclable And Low Fat Products

Question:

<https://leetcode.com/problems/recyclable-and-low-fat-products/>

PRODUCTS	
Column	Type
product_id	int
low_fats	enum
recyclable	enum

product_id is the primary key for this table.

low_fats is an ENUM of type ('Y', 'N') where 'Y' means this product is low fat and 'N' means it is not.

recyclable is an ENUM of types ('Y', 'N') where 'Y' means this product is recyclable and 'N' means it is not.

Write an SQL query to find the ids of products that are both low fat and recyclable.

Return the result table in any order.

Query 1

Using a simple **WHERE** clause and **AND** operator.

```
SELECT
    product_id
FROM Products
WHERE (low_fats = 'Y') AND (recyclable = 'Y')
```

Query 2

Instead of using **AND**, I tried using **INTERSECT** to join the 2 conditions.

```
SELECT
    product_id
FROM Products
WHERE (low_fats = 'Y' )
```

INTERSECT

```
SELECT
    product_id
FROM Products
WHERE (recyclable = 'Y')
```

As we saw in Day 1 question, here Query 1 was faster and Query 2 only worked on MS SQL Server and not on MySQL.

So Query 1 turned out to be the best in both the cases.

PS : This question was asked in Facebook Data Engineering Interview :

[https://leetcode.com/problems/recyclable-and-low-fat-products/discuss/1062936/SQL-1-liner-solution-\(This-is-a-FB-DE-interview-question\)](https://leetcode.com/problems/recyclable-and-low-fat-products/discuss/1062936/SQL-1-liner-solution-(This-is-a-FB-DE-interview-question))