

Problem 1440: Evaluate Boolean Expression

Problem Information

Difficulty: **Medium**

Acceptance Rate: 71.92%

Paid Only: Yes

Tags: Database

Problem Description

Table `Variables`:

```
+-----+-----+ | Column Name | Type | +-----+-----+ | name | varchar | |  
value | int | +-----+-----+ In SQL, name is the primary key for this table. This table  
contains the stored variables and their values.
```

Table `Expressions`:

```
+-----+-----+ | Column Name | Type | +-----+-----+ | left_operand | varchar |  
| operator | enum | | right_operand | varchar | +-----+-----+ In SQL, (left_operand,  
operator, right_operand) is the primary key for this table. This table contains a boolean  
expression that should be evaluated. operator is an enum that takes one of the values ('<', '>',  
'=') The values of left_operand and right_operand are guaranteed to be in the Variables table.
```

Evaluate the boolean expressions in `Expressions` table.

Return the result table in **any order**.

The result format is in the following example.

Example 1:

```
**Input:** Variables table: +-----+-----+ | name | value | +-----+-----+ | x | 66 | | y | 77 |  
+-----+-----+ Expressions table: +-----+-----+ | left_operand | operator  
| right_operand | +-----+-----+ | x | > | y | | x | < | y | | x | = | y | | y | > | x | |  
y | < | x | | x | = | x | +-----+-----+ **Output:**
```

left_operand	operator	right_operand	value
x	>	y	false
x	<	y	true
x	=	y	false
y	>	x	true
y	<	x	false
x	=	x	true

****Explanation:**** As shown, you need to find the value of each boolean expression in the table using the variables table.

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
```