

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
```