

Problem - 1

The MySQL table should be like below

Id	Name	Description	IsEnabled	Created	CreatedBy	Updated	UpdateBy
1	role_1	NULL	1	2021-06-29	Admin	NULL	NULL
2	role_2	XYZ	1	2021-06-29	Admin	2021-06-29	Aarti
3	role_3	XYZ	0	2021-06-29	Aarti	2021-06-29	Ramesh
4	role_4	XYZ	0	2021-06-29	Ramesh	2021-06-29	Ramesh

Your query output should be like the below format

UserName	NoOfCreatedRoles	NoOfCreatedAndEnabledRoles	NoOfUpdatedRoles
Aarti	1	-1	1
Admin	2	2	-1
Ramesh	1	1	2

Your query should return no NULL values for a numerical column. Instead NULL should replace by -1. For example, it is possible that there are no roles updated by a given user or that there are not created by a given user, or no roles created by a given user that is enabled.

Hints

You can assume that there is at least one role created by each user.

Problem - 2

A valid number can be split up into these components (in order):

1. A decimal number or an integer.

2. (Optional) An 'e' or 'E', followed by an integer.

A decimal number can be split up into these components (in order):

1. (Optional) A sign character (either '+' or '-').
2. One of the following formats:
 1. One or more digits, followed by a dot '.'.
 2. One or more digits, followed by a dot '.', followed by one or more digits.
 3. A dot '.', followed by one or more digits.

An integer can be split up into these components (in order):

1. (Optional) A sign character (either '+' or '-').
2. One or more digits.

For example, all the following are valid numbers: ["2", "0089", "-0.1", "+3.14", "4.", "-.9", "2e10", "-90E3", "3e+7", "+6e-1", "53.5e93", "-123.456e789"], while the following are not valid numbers: ["abc", "1a", "1e", "e3", "99e2.5", "--6", "-+3", "95a54e53"].

Given a string `s`, return `true` if `s` is a valid number.

Example 1:

```
Input: s = "0"  
Output: true
```

Example 2:

```
Input: s = "e"  
Output: false
```

Example 3:

```
Input: s = "."  
Output: false
```

Example 4:

Input: `s = ".1"`

Output: `true`

Constraints:

- `1 <= s.length <= 20`
- `s` consists of only English letters (both uppercase and lowercase), digits (0-9), plus '+', minus '-', or dot '.'.

Problem 3

Create CRUD operation

Field should be like below

Products: name, description,

Product variant: Name, SKU, Price, images (multiple)

The product has multiple product variants. So once we create/edit a product, the product variant section should be added dynamically by clicking on the add variant button using jquery. On edit product, we can delete a particular product variant.

Listing should show like below table

Product name	Description	Product variants	Variant image	Action
Name	Description	Variant 1(SKU1) Variant 2(SKU2) Variant 3(SKU2)	Show the first image of variant	Edit Delete
Name	Description	Variant 1(SKU1) Variant 2(SKU2)	Show the first image of variant	Edit Delete

Validation (Should be done on both sides Laravel and Jquery)

- SKU should be unique
- Price should be under 500
- Image only png, jpg, jpeg allow

Note: on listing description should be shown only the first 100 characters