

## DESCRIPTION

Table: MyNumbers

+-----+-----+	
Column Name	Type
+-----+-----+	
num	int
+-----+-----+	

This table may contain duplicates (In other words, there is no primary key for this table in SQL).

Each row of this table contains an integer.

A **single number** is a number that appeared only once in the MyNumbers table.

Find the largest **single number**. If there is no **single number**, report null.

The result format is in the following example.

### Example 1:

#### Input:

MyNumbers table:

+-----+	
num	
+-----+	
8	
8	
3	
3	
1	
4	
5	
6	
+-----+	

**Output:**

```
+-----+
| num |
+-----+
| 6 |
+-----+
```

**Explanation:** The single numbers are 1, 4, 5, and 6.

Since 6 is the largest single number, we return it.

**Example 2:****Input:**

MyNumbers table:

```
+-----+
| num |
+-----+
| 8 |
| 8 |
| 7 |
| 7 |
| 3 |
| 3 |
| 3 |
+-----+
```

**Output:**

```
+-----+
| num |
+-----+
| null |
+-----+
```

**Explanation:** There are no single numbers in the input table so we return null.

## SOLUTION

### MySQL:

- In a subquery, select num with one occurrence having COUNT(num) = 1 and group by num
- For the largest single number, select max num the above subquery

```
SELECT MAX(num) num
FROM MyNumbers
WHERE num IN (
    SELECT num
    FROM MyNumbers
    GROUP BY num
    HAVING COUNT(num) = 1);
```

### PostgreSQL:

- Same approach as above

```
SELECT MAX(num) num
FROM MyNumbers
WHERE num IN (
    SELECT num
    FROM MyNumbers
    GROUP BY 1
    HAVING COUNT(num) = 1
);
```