619. Biggest Single Number 🔗

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June 27, 2017 | 17K views

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Table `my_numbers` contains many numbers in column **num** including duplicated ones.
Can you write a SQL query to find the biggest number, which only appears once.

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

For the sample data above, your query should return the following result:

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

Note:

If there is no such number, just output **null**.

Solution

Approach: Using **subquery** and `MAX()` function [Accepted]

Algorithm

Use subquery to select all the numbers appearing just one time.

```text/x-mysql
1  SELECT
2      num
3  FROM
4      `number`
5  GROUP BY num
6  HAVING COUNT(num) = 1;
```

Then choose the biggest one using `MAX()`.

```text/x-mysql
1   SELECT
2       MAX(num) AS num
3   FROM
4       (SELECT
5           num
6       FROM
7           number
8       GROUP BY num
9       HAVING COUNT(num) = 1) AS t
10  ;
```

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loveFISHly ★ 19 🕐 February 24, 2018 4:12 PM   ⚠ Report

SELECT IFNULL(

(SELECT num
FROM number
GROUP BY 1

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mattlee42011@hotmail.com ★ 15 🕐 January 10, 2018 12:27 PM

The `max()` will take care of the `null` condition. no need for `IFNULL` .

`select max(null)` will result in `null`

select max(num) as num

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user7820x ★ 6 🕐 November 11, 2019 9:04 PM

why this is wrong???
select num
from my_numbers
group by num
having count(*) = 1

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rachitchoksi ★ 6 🕐 June 27, 2018 3:25 AM   ⚠ Report

better solution: select max(num) from number where num in (select num from number group by num having count(*) = 1)

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wangyoukun ★ 1 🕐 August 2, 2018 10:57 AM

select ifnull(num,null) num from number group by num having count(*) = 1 order by num desc limit 1

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sellena ★ 1 🕐 February 15, 2018 5:22 AM

select max(a.num) as 'num'
from (select num
from number
group by num
having count(num)=1) a

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**user2622** ★ 1 🕐 September 12, 2017 8:26 PM

I think should consider of the NULL case
SELECT IFNULL((SELECT MAX(num) FROM (SELECT num from num GROUP BY num.num HAVING
COUNT(num.num) = 1) AS a), NULL) AS num;

1 ▲ ▼ | ↪ Share | ↩ Reply

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mhuang41 ★ 1 🕐 April 1, 2019 9:19 AM   ⚠ Report

select t.num from (
Select num, count(num) as cnt

from num

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azhewangyang ★ 4 🕐 February 22, 2018 11:56 AM

select ifnull(
(select n.num
from (select distinct num, count(num) as c
from number
group by num

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margol ★ 0 🕐 January 31, 2018 7:01 AM   ⚠ Report

```
SELECT max(num)
FROM (
    SELECT
        num
```

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