MySQL DISTINCT on a GROUP_CONCAT()



I am doing SELECT GROUP_CONCAT(categories SEPARATOR ' ') FROM table . Sample data below:

154

categories



test1 test2 test3 test4



test1 test3 test1 test3

24

However, I am getting test1 test2 test3 test4 test1 test3 back and I would like to get test1 test2 test3 test4 back. Any ideas?

Many thanks!

mysql group-concat

asked Jun 21 '10 at 9:37



7 Answers



GROUP CONCAT has DISTINCT attribute:

318

SELECT GROUP_CONCAT(DISTINCT categories ORDER BY categories ASC SEPARATOR ' ') FROM table



edited Jun 21 '10 at 9:47



Daniel Vassallo 277k 61 450 407

answered Jun 21 '10 at 9:41





Using DISTINCT will work

42 SELEC

SELECT GROUP_CONCAT(DISTINCT(categories) SEPARATOR ' ') FROM table



REf:- this

answered Jun 21 '10 at 9:44



Salil 34.9k

17 100 138

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(notice that test1 and test3 are duplicated) while the OP wants to return this string:

```
test1 test2 test3 test4
```

the problem here is that the string "test1 test3" is duplicated and is inserted only once, but all of the others are distinct to each other ("test1 test2 test3" is distinct than "test1 test3", even if some tests contained in the whole string are duplicated).

What we need to do here is to split each string into different rows, and we first need to create a numbers table:

```
CREATE TABLE numbers (n INT);
INSERT INTO numbers VALUES
(1),(2),(3),(4),(5),(6),(7),(8),(9),(10);
```

then we can run this query:

```
SELECT
SUBSTRING_INDEX(
   SUBSTRING_INDEX(tableName.categories, ' ', numbers.n),
   ' ',
   -1) category
FROM
numbers INNER JOIN tableName
ON
   LENGTH(tableName.categories)>=
   LENGTH(REPLACE(tableName.categories, ' ', ''))+numbers.n-1;
```

and we get a result like this:

```
test1
test4
test1
test1
test2
test3
test3
```

and then we can apply GROUP_CONCAT aggregate function, using DISTINCT clause:

```
SELECT
   GROUP_CONCAT(DISTINCT category ORDER BY category SEPARATOR ' ')
FROM (
   SELECT
    SUBSTRING_INDEX(SUBSTRING_INDEX(tableName.categories, ' ', numbers.n), ' ', -1)
category
   FROM
    numbers INNER JOIN tableName
    ON LENGTH(tableName.categories)>=LENGTH(REPLACE(tableName.categories, ' ',
''))+numbers.n-1
   ) s;
```

Please see fiddle here.

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It appears your interpretation of OP's question may be right; however, I think it should be pointed out that normalizing the data by creating a "blah to categories" and a "categories" table for the appropriate manyto-many relationship would be the best practice here, and would add a lot of flexibility. Still, your answer is a smart workaround for anyone who inherits such a denormalized schema. It also could probably be adapted for the purpose of generating a migration from the old to the normalized schema. - XP84 Jun 1 '16 at 17:11



```
SELECT
  GROUP CONCAT(DISTINCT (category))
```

SUBSTRING_INDEX(SUBSTRING_INDEX(tableName.categories, ' ', numbers.n), ' ', -1) category FROM numbers INNER JOIN tableName ON LENGTH(tableName.categories)>=LENGTH(REPLACE(tableName.categories, ' ', ''))+numbers.n-1) s;

This will return distinct values like: test1,test2,test4,test3

edited Feb 3 '17 at 12:31



answered Feb 3 '17 at 10:26





DISTINCT: will gives you unique values.

SELECT GROUP_CONCAT(DISTINCT(categories)) AS categories FROM table



5

edited Apr 2 at 10:57



answered Apr 2 at 10:55



Goshika Mahesh



I realize this question is old, but I feel like this should be mentioned: group concat with distinct = performance killer. If you work in small databases, you won't notice, but when it scales - it won't work very well.



answered Jun 28 '17 at 22:24



1 6

I'm working with a 10 million row table and my query takes the same time with or without DISTINCT. I'm using InnoDB. - ashishduh Aug 10 '17 at 18:07

What data type? How many columns? In my DB, it's heavy on large text fields and there are about 30 some add columns using distinct. Taking away distinct along anada it un dramatically, and it's using

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You can simply add **DISTINCT** in front.

1

SELECT GROUP_CONCAT(DISTINCT categories SEPARATOR ' ')



if you want to sort,

SELECT GROUP_CONCAT(DISTINCT categories ORDER BY categories ASC SEPARATOR ' ')

answered Apr 1 at 7:04 Silent Spectator

8,349 4 55 65

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