

[5.2] Can't reuse named database query parameters #12715

New issue

Closed

tremby opened this issue on Mar 13, 2016 · 12 comments



tremby commented on Mar 13, 2016

When attempting a query like this:

```
DB::table('users as u')
->select('id')
->whereRaw('u.id > :id or u.id < :id', [
    'id' => 2,
])
->first();
```

a `QueryException` is thrown with the message `Invalid parameter number` . This looks to me like a bug. Or is this the expected behaviour? I would have expected a named parameter to be usable any number of times.

(Obviously the query above could be rewritten; it's just to show the issue.)

👍

7

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Notifications

6 participants



themsaid commented on Mar 15, 2016

Member

From the PHP manual:

You must include a unique parameter marker for each value you wish to pass in to the statement when you call `PDOStatement::execute()`. You cannot use a named parameter marker of the same name more than once in a prepared statement, unless emulation mode is on.

<http://php.net/manual/en/pdo.prepare.php>

So I guess you'll have to create multiple keys with the same value.



tremby commented on Mar 15, 2016

@willrowe,

Named parameters are not used in Laravel, the bindings are made positionally.

Not true. Under [Running Raw SQL Queries](#) in the manual there's a "Using Named Bindings" section which says:

Instead of using `?` to represent your parameter bindings, you may execute a query using named bindings:

```
$results = DB::select('select * from users where id = :id', ['id' => 1]);
```



tremby commented on Mar 15, 2016

@themsaid, that's interesting; thanks. That may be case closed, or maybe emulation mode should be on by default. A number of resources I've just read recommend switching it on anyway, at least for MySQL.

Do you know how to switch it on in Laravel, off hand?



themsaid commented on Mar 15, 2016

Member

You can set it ON from your `config/database.php` file in the required connection configurations:

```
PDO::ATTR_EMULATE_PREPARES => true,
```



tremby commented on Mar 15, 2016

Ah, it has to go in an 'options' subarray, like this:

```
'mysql' => [  
    'driver' => 'mysql',  
    ...  
    'options' => [  
        PDO::ATTR_EMULATE_PREPARES => true,  
    ],  
],
```

But there is still an error. It has changed, and is now `Invalid parameter number: number of bound variables does not match number of tokens (SQL: select * from users as u where id = :id or id < :id limit 1)'`.

(Before, the whole thing was `Invalid parameter number (SQL: select * from users as u where id = :id or id < :id limit 1)'`)



3



4



GrahamCampbell closed this on Apr 6, 2016



j4m3s commented on Nov 23, 2016

For anyone using Illuminate/Database in isolation, the PDO options are added as an extra key to the `Manager::addConnection` call, as below:

```
use Illuminate\Database\Capsule\Manager as Capsule;  
  
$capsule = new Capsule;  
$capsule->addConnection([  
    'driver' => 'mysql',  
    'host' => $db_host,  
    'database' => $db_name,  
    'username' => $db_username,  
    'password' => $db_password,  
    'charset' => 'utf8',  
    'collation' => 'utf8_unicode_ci',  
    'prefix' => '',  
    'options' => [  
        PDO::ATTR_EMULATE_PREPARES => true,  
    ],  
]);
```

This DOES allow the parameters to be used in multiple places in within a query according to my tests, which, IMHO, is far preferable to cut & pasting the same value into multiple separate parameters.



2

ursuleacv commented on Mar 8, 2017 • edited ▾



Yii query builder allows the same parameter to be used multiple times. It's annoying, especially when writing complex queries with a lot of parameters that are used multiple times



tremby commented on Mar 8, 2017

I didn't realize until now this was closed. Gotta love the Laravel maintainers closing tickets without comment. Is it fixed? Is it considered not to be a bug? These questions and more left to the reader. What fun.



3



j4m3s commented on Mar 9, 2017

@tremby could you post the whole of your query in a three-backtick block? I'll run it using standalone Illuminate/Database setup and see if I get the same error as you do. I've been using it with the `PDO::ATTR_EMULATE_PREPARES => true` for some months and haven't had an issue.

I have seen a similarly message to yours in the past where I had an apostrophe (quote-mark) within a comment but was being interpreted as part of the actual query.



tremby commented on Mar 9, 2017

@j4m3s, is the query in my original post (from 2016-03-13, so I no longer have any idea exactly what I was trying to do) a suitable example?



j4m3s commented on Mar 10, 2017

Ah sorry @tremby, I only use flat SQL rather than the query builder so it may well be that your problem comes from within the query builder. That would explain why I haven't seen any issues with it since adding the extra PDO setting.



chimit commented on Jul 11, 2017

Contributor

Laravel documentation is unclear here. I spent a lot of time trying to reuse one binding multiple times (table prefix).