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ZF2: Writing "advanced" MySQL where clauses

MySQL

Writing database queries is a common task when you're building a dynamic website. In this little "tutorial" I will show you how to write more "advanced" MySQL where clauses when using Zend Framework 2's build-in database adapter.

I'll start by making a **Sql** object. With this object we can then build a simple **Select** query.

```
// sql object
$sql = new \Zend\Db\Sql\Sql($adapter);

// select object
$select = $sql->select('table'); // table name
echo $sql->getSqlStringForSqlObject($select);
```

Result:

```
SELECT `table`.* FROM `table`
```

Bellow are a few *simple* select queries. If you're familiar with Zend Framework 1 you'll notice that the usage of the where method is quite similar.

Examples:

```
// SELECT `table`.* FROM `table` WHERE `column1` = 'value1'
$select->where(array('column1' => 'value1'));

// SELECT `table`.* FROM `table` WHERE `column1` = 'value1' AND `column2` = 'value2'
$select->where(array('column1' => 'value1', 'column2' => 'value2'));

// SELECT `table`.* FROM `table` WHERE `column1` = 'value1' OR `column2` = 'value2'
$select->where(
    array(
        'column1' => 'value1',
        'column2' => 'value2'
    ),
    \Zend\Db\Sql\Predicate\PredicateSet::OP_OR
);
```

As you can see the default separator being used between columns is **AND**.

Now, this is all pretty much straight forward and you should also be able to find this in the manual, however, it took me some time to figure out how to group these where clauses. Even though this is also a common task when writing (simple) select queries I could not really find this in the manual, at the time of writing at least.

Anyway, the **where** method accepts several different datatypes one of which is a **PredicateSet**, containing, obviously, **Predicates**. This allows you to group your where clauses.

Here is an example:

```
// SELECT `table`.* FROM `table` WHERE `column3` = 'value3' OR (`column1` = 'value1' AND `column2` = 'value2')
$select->where(array('column3' => 'value3'));
$select->where(
    new \Zend\Db\Sql\Predicate\PredicateSet(
        array(
            new \Zend\Db\Sql\Predicate\Operator('column1', '=', 'value1'),
            new \Zend\Db\Sql\Predicate\Operator('column2', '=', 'value2')
        ),
        // optional; OP_AND is default
        \Zend\Db\Sql\Predicate\PredicateSet::OP_AND
    ),
    // optional; OP_AND is default
    \Zend\Db\Sql\Predicate\PredicateSet::OP_OR
);
```

You can also use a **Predicate** object directly in your where method, instead of using the key/value pairs, or a string.

```
// SELECT `table`.* FROM `table` WHERE `column1` = 'value1'
$select->where(new \Zend\Db\Sql\Predicate\Operator('column1', '=', 'value1'));
```

Or...

```
// SELECT `table`.* FROM `table` WHERE `column1` LIKE 'value%'
$select->where(new \Zend\Db\Sql\Predicate\Like('column1', 'value%'));
```

Hopefully this will give someone a bit more understanding (and less frustration) of how to use the Sql **where** method, using Zend Framework 2.

Please leave a comment if you've any suggestions, or if you have anything to add! Do let me know. :)

Date added: March 23, 2013 by [Jaap](#)

9 responses on the article *ZF2: Writing "advanced" MySQL where clauses*

Ndiritu 15 Oct 04:59 pm

Very useful indeed. Thank you.

Jaap (admin) 17 Oct 12:04 am

No problem!

Damanik 18 Nov 04:37 am

Thank you, very nice..

Damanik 18 Nov 04:56 am

My Problem Solved... Cool

Thank You Again, you just made my day bro... :)

Jaap (admin) 21 Nov 07:36 pm

No probs! Glad you got it solved.

qfgazbvt@gmail.com 16 Sep 04:18 pm

If you individual some brand-new Louis Vuitton sunglasses, you use an important for you to open the globe involving substantial manner. Men and women know what Louis Vuitton sunglasses necessarily mean; that they be aware that a person whom has on Louis Vuitton Eye wear can be an agent who has an increased impression involving manner and also a substantial normal involving good quality.

[\[url=http://www.chicagoevents.com/cm/eventmedia/ev278/s0ulgm1f.asp\]\[url\]](http://www.chicagoevents.com/cm/eventmedia/ev278/s0ulgm1f.asp)

psznwrpq@gmail.com 17 Sep 02:17 pm

It's very common to hear of a celebrity filing a case against a tabloid or even a more legitimate newspaper, but there have been many historic cases of defamation of character that may surprise you.

[\[url=http://www.bellfusion.com/football/pool/2008/kznqqlb2.asp\]\[url\]](http://www.bellfusion.com/football/pool/2008/kznqqlb2.asp)

psznwrpq@gmail.com 18 Sep 02:06 am

Cadel Evans, an Australian favorite, clinched the title this year. And what sports sunglasses does a champion wear but Oakley's of course! He even rides through the finish line with the gold lens sunglasses upon his head reinforcing the real winning style and design of the Oakley and his awesome role as the winner of the 2011 Le Tour de France.

[\[url=http://www.icdcbarriounuevo.com/collections/autopak/zvungsev.asp\]\[url\]](http://www.icdcbarriounuevo.com/collections/autopak/zvungsev.asp)

pwdstcft@gmail.com 19 Sep 05:17 am

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