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# **SphinxQL Query Builder**

***Release 1.0.0***

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# Introduction

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The SphinxQL Query Builder provides a simple abstraction and access layer which allows developers to generate SphinxQL statements which can be used to query an instance of the Sphinx search engine for results.

## 1.1 Compatibility

SphinxQL Query Builder is tested against the following environments:

- HHVM or PHP 5.3 and later
- Sphinx (Stable)
- Sphinx (Development)

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**Note:** It is recommended that you always use the latest stable version of Sphinx with the query builder.

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**CHANGELOG**

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**2.1 What's New in 1.0.0**





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## Configuration

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### 3.1 Obtaining a Connection

You can obtain a SphinxQL Connection with the *Foolz\SphinxQL\Drivers\Mysqli\Connection* class.

```
<?php
use Foolz\SphinxQL\Drivers\Mysqli\Connection;

$conn = new Connection();
$conn->setparams(array('host' => '127.0.0.1', 'port' => 9306));
```

**Warning:** The existing PDO driver written is considered experimental as the behaviour changes between certain PHP releases.

### 3.2 Connection Parameters

The connection parameters provide information about the instance you wish to establish a connection with. The parameters required is set with the *setParams(\$array)* or *setParam(\$key, \$value)* methods.

**host**

**Type** string

**Default** 127.0.0.1

**port**

**Type** int

**Default** 9306

**socket**

**Type** string

**Default** null

**options**

**Type** array

**Default** null



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## SphinxQL Query Builder

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### 4.1 Creating a Query Builder Instance

You can create an instance by using the following code and passing a configured *Connection* class.

```
<?php

use Foolz\SphinxQL\Drivers\Mysqli\Connection;
use Foolz\SphinxQL\SphinxQL;

$conn = new Connection();
$queryBuilder = SphinxQL::create($conn);
```

### 4.2 Building a Query

The *Foolz\SphinxQL\SphinxQL* class supports building the following queries: *SELECT*, *INSERT*, *UPDATE*, and *DELETE*. Which sort of query being generated depends on the methods called.

For *SELECT* queries, you would start by invoking the *select()* method:

```
$queryBuilder
->select('id', 'name')
->from('index');
```

For *INSERT*, *REPLACE*, *UPDATE* and *DELETE* queries, you can pass the index as a parameter into the following methods:

```
$queryBuilder
->insert('index');

$queryBuilder
->replace('index');

$queryBuilder
->update('index');

$queryBuilder
->delete('index');
```

**Note:** You can convert the query builder into its compiled SphinxQL dialect string representation by calling `$queryBuilder->compile()->getCompiled()`.

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### 4.2.1 Security: Bypass Query Escaping

```
SphinxQL::expr($string)
```

### 4.2.2 Security: Query Escaping

```
$queryBuilder  
->escape($value);
```

```
$queryBuilder  
->quoteIdentifier($value);
```

```
$queryBuilder  
->quote($value);
```

```
$queryBuilder  
->escapeMatch($value);
```

```
$queryBuilder  
->halfEscapeMatch($value);
```

### 4.2.3 WHERE Clause

The *SELECT*, *UPDATE* and *DELETE* statements supports the *WHERE* clause with the following API methods:

```
// WHERE `$column` = '$value'  
$queryBuilder  
->where($column, $value);  
  
// WHERE `$column` = '$value'  
$queryBuilder  
->where($column, '=', $value);  
  
// WHERE `$column` >= '$value'  
$queryBuilder  
->where($column, '>=', $value)  
  
// WHERE `$column` IN ('$value1', '$value2', '$value3')  
$queryBuilder  
->where($column, 'IN', array($value1, $value2, $value3));  
  
// WHERE `$column` NOT IN ('$value1', '$value2', '$value3')  
$queryBuilder  
->where($column, 'NOT IN', array($value1, $value2, $value3));  
  
// WHERE `$column` BETWEEN '$value1' AND '$value2'  
$queryBuilder  
->where($column, 'BETWEEN', array($value1, $value2))
```

**Warning:** Currently, the SphinxQL dialect does not support the *OR* operator and grouping with parenthesis.

#### 4.2.4 MATCH Clause

*MATCH* extends the *WHERE* clause and allows for full-text search capabilities.

```
$QueryBuilder
->match($column, $value, $halfEscape = false);
```

By default, all inputs are automatically escaped by the query builder. The usage of *SphinxQL::expr(\$value)* can be used to bypass the default query escaping and quoting functions in place during query compilation. The *\$column* argument accepts a string or an array. The *\$halfEscape* argument, if set to *true*, will not escape and allow the usage of the following special characters: -, |, and “.

#### 4.2.5 SET Clause

```
$QueryBuilder
->set($associativeArray);
```

```
$QueryBuilder
->value($column1, $value1)
->value($column2, $value2);
```

```
$QueryBuilder
->columns($column1, $column2, $column3)
->values($value1_1, $value2_1, $value3_1)
->values($value1_2, $value2_2, $value3_2);
```

#### 4.2.6 GROUP BY Clause

The *GROUP BY* supports grouping by multiple columns or computed expressions.

```
// GROUP BY $column
$QueryBuilder
->groupBy($column);
```

#### 4.2.7 WITHIN GROUP ORDER BY

The *WITHIN GROUP ORDER BY* clause allows you to control how the best row within a group will be selected.

```
// WITHIN GROUP ORDER BY $column [$direction]
$QueryBuilder
->withinGroupOrderBy($column, $direction = null);
```

#### 4.2.8 ORDER BY Clause

Unlike in regular SQL, only column names (not expressions) are allowed.

```
// ORDER BY $column [$direction]
$queryBuilder
    ->orderBy($column, $direction = null);
```

## 4.2.9 OFFSET and LIMIT Clause

```
// LIMIT $offset, $limit
$queryBuilder
    ->limit($offset, $limit);
```

```
// LIMIT $limit
$queryBuilder
    ->limit($limit);
```

## 4.2.10 OPTION Clause

The *OPTION* clause allows you to control a number of per-query options.

```
// OPTION $name = $value
$queryBuilder
    ->option($name, $value);
```

## 4.3 COMPILE

You can have the query builder compile the generated query for debugging with the following method:

```
$queryBuilder
    ->compile();
```

This can be used for debugging purposes and obtaining the resulting query generated.

## 4.4 EXECUTE

In order to run the query, you must invoke the *execute()* method so that the query builder can compile the query for execution and then return the results of the query.

```
$queryBuilder
    ->execute();
```

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## Multi-Query Builder

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```
$queryBuilder  
->enqueue(SphinxQL $next = null);
```

```
$queryBuilder  
->executeBatch();
```





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**Facets**

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## 7.1 Pull Requests

1. Fork [SphinxQL Query Builder](#)
2. Create a new branch for each feature or improvement
3. Submit a pull request with your branch against the master branch

It is very important that you create a new branch for each feature, improvement, or fix so that may review the changes and merge the pull requests in a timely manner.

## 7.2 Coding Style

All pull requests must adhere to the [PSR-2](#) standard.

## 7.3 Testing

All pull requests must be accompanied with passing tests and code coverage. The SphinxQL Query Builder uses [PHPUnit](#) for testing.

## 7.4 Issue Tracker

You can find our issue tracker at our [SphinxQL Query Builder](#) repository.