

# The CMS Builder Cookbook

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## MYSQL TO MYSQLI CHEAT SHEET - Feb 9th, 2023

### MySql to MySqli Cheat Sheet

According to Daniel Louwe, Technical Lead at Interactive Tools, "CMSB also now includes a Legacy MySQL Scanner plugin - you can activate this plugin and then use it to run a scan both on your plugins and website files to locate other places that need to be updated. Updating to the latest version of a plugin should fix any legacy MySQL issues there, however, anything found in your website files may require some manual fixing."

Here's some more information from Interactive Tools

For each mysql\_ function, find it in the Original MySQL API here:  
<http://php.net/manual/en/book.mysql.php>

And then follow the link to the replacement function and copy the code replacing \$mysql-> with mysqli()->

I'll add fixes as I come across them.  
Please email me with your conversion notes.

Here are some example search and replaces:

Search for: ..... Replace with:

```
mysql_query( .....      mysqli()->query(
mysql_error( .....      mysqli()->error
mysql_ping( .....      mysqli()->ping(
mysql_select_db( .....  mysqli()->select_db(
mysql_server_info( .....; mysqli()->server_info
mysql_set_charset .....  mysqli()->set_charset(
mysql_insert_id .....  mysqli()->insert_id;
mysql_close( .....;    mysqli()->close();
mysql_affected_rows .....  mysqli()->affected_rows
mysql_fetch_assoc($result) ..... $result->fetch_assoc()
mysql_fetch_row($result) ..... $result->fetch_row()
```

For any other mysql function find the original and replacement code in the PHP manual online here: <http://php.net/manual/en/book.mysql.php>

Reference:  
PHP Original MySQL API: <http://php.net/manual/en/book.mysql.php>  
PHP MySQL Improved Extension: <http://php.net/manual/en/book.mysqli.php>

Some changes that I've made:

Change this:

```
$query = "SELECT DATE_FORMAT(date, '%M %Y') as dateAndYear, YEAR(date) as year, MONTH(date) as month FROM cmsb_blog WHERE `hidden` = 0 GROUP BY dateAndYear ORDER BY date";
```

```
$result = mysql_query($query) or die("MySQL Error: ". htmlspecialchars(mysqli_error()) . "\n");
while ($record = mysql_fetch_assoc($result)):
```

To this:

```
$query = "SELECT DATE_FORMAT(date, '%M %Y') as dateAndYear, YEAR(date) as year, MONTH(date) as month FROM cmsb_blog
```

```
WHERE `hidden` = 0 GROUP BY dateAndYear ORDER BY date";
```

```
$result = mysqli()->query($query) or die("MySQL Error: ". htmlspecialchars(mysqli()->error) . "\n");  
while ($record = $result->fetch_assoc()):
```

And this:

```
mysql_query(mysql_escapef("INSERT INTO {$TABLE_PREFIX}login_log SET
```

Becomes this:

```
mysqli()->query(mysql_escapef("INSERT INTO {$TABLE_PREFIX}login_log SET
```

And this:

```
mysql_query("INSERT INTO `{$TABLE_PREFIX}salon_listings` SET
```

becomes this:

```
mysqli()->query("INSERT INTO `{$TABLE_PREFIX}salon_listings` SET
```

And this:

```
mysql_query("UPDATE `{$TABLE_PREFIX}salon_listings` SET
```

becomes this:

```
mysqli()->query("UPDATE `{$TABLE_PREFIX}salon_listings` SET
```

And this:

```
mysql_query("UPDATE `{$TABLE_PREFIX}accounts` SET  
expiresDate = expiresDate + INTERVAL 1 YEAR  
WHERE num = ".mysql_escape( $CURRENT_USER['num'] )."  
or die("MySQL Error:\n". htmlspecialchars(mysqli_error()) . "\n");  
$userNum = mysql_insert_id();
```

Can also become this:

```
$colsToValues = array();  
$colsToValues['updatedDate='] = 'NOW()';  
$colsToValues['expiresDate='] = 'expiresDate + INTERVAL 1 YEAR';  
mysql_update(accountsTable(), $CURRENT_USER['num'], null, $colsToValues);
```

According to Daniel Loewe at Interactive Tools,

You should be able to replace `mysqli_insert_id()` with `mysqli()->insert_id`;

A suitable replacement for `mysql_real_escape_string()` is `mysql_escape()`.

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