

# Doctrine (DBAL) Cheatsheet

Snippets about how to use Doctrine DBAL core functions.

## Simple Connection

```
<?php
$config = new \Doctrine\DBAL\Configuration();
//...
$connectionParams = array(
    'dbname' => 'mydb',
    'user' => 'user',
    'password' => 'secret',
    'host' => 'localhost',
    'driver' => 'pdo_mysql',
);
$conn = \Doctrine\DBAL\DriverManager::getConnection($connectionParams, $config);
```

## Simple Queries and Dynamic Parameters

```
<?php
// $conn instanceof Doctrine\DBAL\Connection
$sql = "SELECT * FROM articles WHERE id = ?";
$stmt = $conn->prepare($sql);
$stmt->bindValue(1, $id);
$stmt->execute();

// Named parameters
$sql = "SELECT * FROM users WHERE name = :name OR username = :name";
$stmt = $conn->prepare($sql);
$stmt->bindValue("name", $name);
$stmt->execute();
```

## Binding Types

```
<?php
/*
Doctrine DBAL extends PDOs handling of binding types in prepared statement considerably. Besides the
*/
$date = new \DateTime("2011-03-05 14:00:21");
$stmt = $conn->prepare("SELECT * FROM articles WHERE publish_date > ?");
$stmt->bindValue(1, $date, "datetime");
```

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

## Prepare

```
<?php
$statement = $conn->prepare('SELECT * FROM user');
$statement->execute();
$users = $statement->fetchAll();

/*
array(
    0 => array(
        'username' => 'jwage',
        'password' => 'changeme'
    )
)
*/
```

## Execute Update

```
<?php
// $sql, $params, $types
$count = $conn->executeUpdate('UPDATE user SET username = ? WHERE id = ?', array('jwage', 1));
echo $count; // 1
```

## Execute Query

```
<?php
// $sql, $params, $types
$statement = $conn->executeQuery('SELECT * FROM user WHERE username = ?', array('jwage'));
$user = $statement->fetch();

/*
array(
    0 => 'jwage',
    1 => 'changeme'
)
*/
```

## Fetch All

```
<?php
$users = $conn->fetchAll('SELECT * FROM user');
```

```
/*
array(
    0 => array(
        'username' => 'jwage',
        'password' => 'changeme'
    )
)
*/
```

## Fetch Array

```
<?php
$user = $conn->fetchArray('SELECT * FROM user WHERE username = ?', array('jwage'));

/*
array(
    0 => 'jwage',
    1 => 'changeme'
)
*/
```

## Fetch Column

```
<?php
$username = $conn->fetchColumn('SELECT username FROM user WHERE id = ?', array(1), 0);
echo $username; // jwage
```

## Fetch Assoc

```
<?php
$user = $conn->fetchAssoc('SELECT * FROM user WHERE username = ?', array('jwage'));
/*
array(
    'username' => 'jwage',
    'password' => 'changeme'
)
*/
```

## Delete

```
<?php
$conn->delete('user', array('id' => 1));
// DELETE FROM user WHERE id = ? (1)
```

## Insert

```
<?php
$conn->insert('user', array('username' => 'jwage'));
// INSERT INTO user (username) VALUES (?) (jwage)
```

## Update

```
<?php
$conn->update('user', array('username' => 'jwage'), array('id' => 1));
// UPDATE user (username) VALUES (?) WHERE id = ? (jwage, 1)
```

## Quote

```
<?php
$quoted = $conn->quote('value');
$quoted = $conn->quote('1234', \PDO::PARAM_INT);
```

## Quote Identifier

```
<?php
$quoted = $conn->quoteIdentifier('id');
```

## Query Builder

```
<?php
// $conn instanceof Doctrine\DBAL\Connection

// Query
$query = $conn->createQueryBuilder()
    ->select('*')
    ->from('users')
    ->orderBy('id', 'DESC')
    ->where('id = :id')
    ->setParameter('id', 1)
    ->setMaxResults(10)
    ->setFirstResult(1);

// Results
$rows = $query->execute()->fetchAll();
```

## Query Builder w/count

```

<?php
// $conn instanceof Doctrine\DBAL\Connection

$query = $conn->createQueryBuilder()
    ->select('COUNT(id) as count')
    ->from($table)
    ->where('id = :id')
    ->setParameter('id', 1);
$rowcount = $query->execute()->fetch();

```

## Query Builder w/multiple joins

```

<?php
// $conn instanceof Doctrine\DBAL\Connection

$query = $conn->createQueryBuilder()
    ->select('U.*')
    ->from('users', 'U')
    ->leftJoin('U', 'genders', 'G', 'U.gender_id = G.id')
    ->leftJoin('U', 'houses', 'H', 'U.house_id = H.id')
    ->innerJoin('H', 'kindoms', 'K', 'H.kindom_id = K.id')
    ->where('U.id = ?')
    ->setParameter(0, 1);

```

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**Got it!**