

# Ovrimos SQL

# Introduction

Ovrimos SQL Server, is a client/server, transactional RDBMS combined with Web capabilities and fast transactions.

<b>Note</b>
This extension has been moved to the <a href="#">» PECL</a> repository and is no longer bundled with PHP as of PHP 4.4.5 and PHP 5.1.0.

<b>Note</b>
This extension is not available on Windows platforms.

# Installing/Configuring

## Requirements

You'll need to install the sqlcli library available in the Ovrimos SQL Server distribution.

## Installation

To enable Ovrimos support in PHP just compile PHP with the `--with-ovrimos[=DIR]` parameter to your configure line. DIR is the Ovrimos' libsqlcli install directory.

## Runtime Configuration

This extension has no configuration directives defined in *php.ini*.

## Resource Types

This extension has no resource types defined.

# Predefined Constants

This extension has no constants defined.

# Examples

## Example #1 - Connect to Ovrimos SQL Server and select from a system table

```
<?php
$conn = ovrimos_connect("server.domain.com", "8001", "admin", "password");
if ($conn != 0) {
    echo "Connection ok!";
    $res = ovrimos_exec($conn, "select table_id, table_name from
sys.tables");
    if ($res != 0) {
        echo "Statement ok!";
        ovrimos_result_all($res);
        ovrimos_free_result($res);
    }
    ovrimos_close($conn);
}
?>
```

# Ovrimos SQL Functions

# ovrimos\_close

ovrimos\_close -- Closes the connection to ovrimos

## Description

**void ovrimos\_close** ( int `$connection` )

Closes the specified *connection* to Ovrimos. This has the effect of rolling back uncommitted transactions.

## Parameters

*connection*

The Ovrimos connection identifier, returned by [ovrimos\\_connect\(\)](#).

## Return Values

No value is returned.

## See Also

- [ovrimos\\_connect\(\)](#)

# ovrimos\_commit

ovrimos\_commit -- Commits the transaction

## Description

bool **ovrimos\_commit** ( int \$connection\_id )

Commits the transaction.

## Parameters

*connection\_id*

The Ovrimos connection identifier, returned by [ovrimos\\_connect\(\)](#).

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [ovrimos\\_rollback\(\)](#)



# ovrimos\_connect

ovrimos\_connect -- Connect to the specified database

## Description

int **ovrimos\_connect** ( string \$host, string \$dborport, string \$user, string \$password )

Connects to the specified database.

## Parameters

*host*

A host name or IP address.

*dborport*

Either a database name, or the port number to connect to.

*user*

The user name.

*password*

Password associated with *user*.

## Return Values

Returns a connection identifier (greater than 0) on success, or 0 on failure.

## Examples

### Example #2 - [ovrimos\\_connect\(\)](#) Example

```
<?php
$conn = ovrimos_connect("server.example.com", "8001", "admin", "password");
if ($conn != 0) {
    echo "Connection ok!";
    $res = ovrimos_exec($conn, "select table_id, table_name from
sys.tables");
    if ($res != 0) {
        echo "Statement ok!";
        ovrimos_result_all($res);
        ovrimos_free_result($res);
    }
    ovrimos_close($conn);
}
?>
```

## See Also

- [ovrimos\\_close\(\)](#)

# ovrimos\_cursor

ovrimos\_cursor -- Returns the name of the cursor

## Description

string **ovrimos\_cursor** ( int \$result\_id )

Gets the name of the cursor. Useful when wishing to perform positioned updates or deletes.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

## Return Values

Returns the name as a string, or **FALSE** on error.

# ovrimos\_exec

ovrimos\_exec -- Executes an SQL statement

## Description

```
int ovrimos_exec ( int $connection_id, string $query )
```

Executes an SQL statement (query or update) and returns a result identifier.

## Parameters

*connection\_id*

The Ovrimos connection identifier, returned by [ovrimos\\_connect\(\)](#).

*query*

The SQL statement. Evidently, it should not contain parameters. Use [ovrimos\\_prepare\(\)](#) for prepared statements.

## Return Values

Returns the result identifier as an integer, or **FALSE** on error.

## See Also

- [ovrimos\\_execute\(\)](#)
- [ovrimos\\_prepare\(\)](#)

# ovrimos\_execute

ovrimos\_execute -- Executes a prepared SQL statement

## Description

bool **ovrimos\_execute** ( int \$result\_id [, array \$parameters\_array ] )

Executes a prepared statement.

## Parameters

*result\_id*

An Ovrimos result identifier prepared with [ovrimos\\_prepare\(\)](#).

*parameters\_array*

If the prepared statement contained parameters (question marks in the statement), the correct number of parameters should be passed in an array.

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [ovrimos\\_prepare\(\)](#)

# ovrimos\_fetch\_into

ovrimos\_fetch\_into -- Fetches a row from the result set

## Description

```
bool ovrimos_fetch_into ( int $result_id, array &$result_array [, string $how [, int $rownumber ] ] )
```

Fetches a row from the given result set, into *result\_array*.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*result\_array*

You must provide an array by reference. It will be filled with the fetched values.

*how*

Determines how the rows are fetched. This can be one of the following strings (case is not significant):

Option	Notes
<i>Next</i>	Forward direction from current position. This is the default value.
<i>Prev</i>	Backward direction from current position.
<i>First</i>	Forward direction from the start.
<i>Last</i>	Backward direction from the end.
<i>Absolute</i>	Absolute position from the start. Requires <i>rownumber</i> .

*rownumber*

The row number, first one is 0. Only needed when *how* is set to *Absolute*.

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## Examples

### Example #3 - A fetch into example

```
<?php
$conn=ovrimos_connect("neptune", "8001", "admin", "password");
if ($conn!=0) {
    echo "Connection ok!";
    $res=ovrimos_exec($conn, "select table_id, table_name from sys.tables");
    if ($res != 0) {
        echo "Statement ok!";
        if (ovrimos_fetch_into($res, &$row)) {
            list($table_id, $table_name) = $row;
            echo "table_id=" . $table_id . ", table_name=" . $table_name . "\n";
            if (ovrimos_fetch_into($res, &$row)) {
                list($table_id, $table_name) = $row;
                echo "table_id=" . $table_id . ", table_name=" . $table_name .
"\n";
            } else {
                echo "Next: error\n";
            }
        } else {
            echo "First: error\n";
        }
        ovrimos_free_result($res);
    }
    ovrimos_close($conn);
}
?>
```

### See Also

- [ovrimos\\_fetch\\_row\(\)](#)

# ovrimos\_fetch\_row

ovrimos\_fetch\_row -- Fetches a row from the result set

## Description

bool **ovrimos\_fetch\_row** ( int \$result\_id [, int \$how [, int \$row\_number ] ] )

Fetches a row from the result set. Column values should be retrieved with other calls.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*how*

Determines how the rows are fetched. This can be one of the following strings (case is not significant):

Option	Notes
<i>Next</i>	Forward direction from current position. This is the default value.
<i>Prev</i>	Backward direction from current position.
<i>First</i>	Forward direction from the start.
<i>Last</i>	Backward direction from the end.
<i>Absolute</i>	Absolute position from the start. Requires <i>rownumber</i> .

*rownumber*

The row number, first one is 0. Only needed when *how* is set to *Absolute*.

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## Examples



## Example #4 - A fetch row example

```
<?php
$conn = ovrimos_connect("remote.host", "8001", "admin", "password");
if ($conn != 0) {
    echo "Connection ok!";
    $res=ovrimos_exec($conn, "select table_id, table_name from sys.tables");
    if ($res != 0) {
        echo "Statement ok!";
        if (ovrimos_fetch_row($res, "First")) {
            $table_id = ovrimos_result($res, 1);
            $table_name = ovrimos_result($res, 2);
            echo "table_id=" . $table_id . ", table_name=" . $table_name . "\n";
            if (ovrimos_fetch_row($res, "Next")) {
                $table_id = ovrimos_result($res, "table_id");
                $table_name = ovrimos_result($res, "table_name");
                echo "table_id=" . $table_id . ", table_name=" . $table_name .
"\n";
            } else {
                echo "Next: error\n";
            }
        } else {
            echo "First: error\n";
        }
        ovrimos_free_result($res);
    }
    ovrimos_close($conn);
}
?>
```

This will fetch a row and print the result.

## See Also

- [ovrimos\\_fetch\\_into\(\)](#)

# ovrimos\_field\_len

ovrimos\_field\_len -- Returns the length of the output column

## Description

int **ovrimos\_field\_len** ( int \$result\_id, int \$field\_number )

Gets the length of the specified output column.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*field\_number*

The field number. Starts at 1.

## Return Values

Returns the length as an interger, or **FALSE** on error.

## See Also

- [ovrimos\\_field\\_name\(\)](#)
- [ovrimos\\_field\\_num\(\)](#)
- [ovrimos\\_field\\_type\(\)](#)

# ovrimos\_field\_name

ovrimos\_field\_name -- Returns the output column name

## Description

string **ovrimos\_field\_name** ( int \$result\_id, int \$field\_number )

Returns the output column name at the index specified.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*field\_number*

The field number. Starts at 1.

## Return Values

Returns the field name as a string, or **FALSE** on error.

## See Also

- [ovrimos\\_field\\_len\(\)](#)
- [ovrimos\\_field\\_num\(\)](#)
- [ovrimos\\_field\\_type\(\)](#)

# ovrimos\_field\_num

ovrimos\_field\_num -- Returns the (1-based) index of the output column

## Description

int **ovrimos\_field\_num** ( int \$result\_id, string \$field\_name )

Returns the 1-based index of the specified output column.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*field\_name*

The field name.

## Return Values

Returns the index, starting at 1, or **FALSE** on error.

## See Also

- [ovrimos\\_field\\_len\(\)](#)
- [ovrimos\\_field\\_name\(\)](#)
- [ovrimos\\_field\\_type\(\)](#)

# ovrimos\_field\_type

ovrimos\_field\_type -- Returns the type of the output column

## Description

int **ovrimos\_field\_type** ( int \$result\_id, int \$field\_number )

Returns the type of the output column

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*field\_number*

A 1-based index.

## Return Values

Returns the field type as an integer, or **FALSE** on error.

## See Also

- [ovrimos\\_field\\_len\(\)](#)
- [ovrimos\\_field\\_name\(\)](#)
- [ovrimos\\_field\\_num\(\)](#)

# ovrimos\_free\_result

ovrimos\_free\_result -- Frees the specified result\_id

## Description

bool **ovrimos\_free\_result** ( int \$result\_id )

Frees the specified result identifier.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

## Return Values

Returns **TRUE**.

# ovrimos\_longreadlen

ovrimos\_longreadlen -- Specifies how many bytes are to be retrieved from long datatypes

## Description

bool **ovrimos\_longreadlen** ( int \$result\_id, int \$length )

Specifies how many bytes are to be retrieved from long datatypes (long varchar and long varbinary).

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*length*

The number of bytes to retrieve. Default is zero.

## Return Values

Returns **TRUE**.

# ovrimos\_num\_fields

ovrimos\_num\_fields -- Returns the number of columns

## Description

int **ovrimos\_num\_fields** ( int \$result\_id )

Returns the number of columns in the specified result identifier.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

## Return Values

Returns the number of columns as an integer, or **FALSE** on error.

## See Also

- [ovrimos\\_num\\_rows\(\)](#)



# ovrimos\_num\_rows

ovrimos\_num\_rows -- Returns the number of rows affected by update operations

## Description

int **ovrimos\_num\_rows** ( int \$result\_id )

Gets the number of rows affected by update operations.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

## Return Values

Returns the number of rows as an integer, or **FALSE** on error.

## See Also

- [ovrimos\\_num\\_fields\(\)](#)

# ovrimos\_prepare

ovrimos\_prepare -- Prepares an SQL statement

## Description

int **ovrimos\_prepare** ( int \$connection\_id, string \$query )

Prepares an SQL statement.

## Parameters

*connection\_id*

The Ovrimos connection identifier, returned by [ovrimos\\_connect\(\)](#).

*query*

The SQL statement.

## Return Values

Returns a result identifier on success, or **FALSE** on error.

## Examples

### Example #5 - [ovrimos\\_prepare\(\)](#) Example

```
<?php
$conn=ovrimos_connect("db_host", "8001", "admin", "password");
if ($conn!=0) {
    echo "Connection ok!";

    // Prepare the statement
    $res=ovrimos_prepare($conn, "select table_id, table_name
                                from sys.tables where table_id=1");

    if ($res != 0) {
        echo "Prepare ok!";
        // Execute the prepared statement
        if (ovrimos_execute($res)) {
            echo "Execute ok!\n";
            ovrimos_result_all($res);
        } else {
            echo "Execute not ok!";
        }
        ovrimos_free_result($res);
    } else {
        echo "Prepare not ok!\n";
    }
    ovrimos_close($conn);
}
```

}  
?>

# ovrimos\_result\_all

ovrimos\_result\_all -- Prints the whole result set as an HTML table

## Description

int **ovrimos\_result\_all** ( int \$result\_id [, string \$format ] )

Prints the whole result set as an HTML table.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*format*

Optional HTML attributes for the generated table element.

## Return Values

Returns the number of rows in the generated table.

## Examples

This will execute an SQL statement and print the result in an HTML table.

### Example #6 - Prepare a statement, execute, and view the result

```
<?php
$conn = ovrimos_connect("db_host", "8001", "admin", "password");
if ($conn != 0) {
    echo "Connection ok!";
    $res = ovrimos_prepare($conn, "select table_id, table_name
                                from sys.tables where table_id = 7");

    if ($res != 0) {
        echo "Prepare ok!";
        if (ovrimos_execute($res, array(3))) {
            echo "Execute ok!\n";
            ovrimos_result_all($res);
        } else {
            echo "Execute not ok!";
        }
        ovrimos_free_result($res);
    } else {
        echo "Prepare not ok!\n";
    }
    ovrimos_close($conn);
}
?>
```

### Example #7 - [ovrimos\\_result\\_all\(\)](#) with meta-information

```
<?php
$conn = ovrmos_connect("db_host", "8001", "admin", "password");
if ($conn != 0) {
    echo "Connection ok!";
    $res = ovrmos_exec($conn, "select table_id, table_name
                               from sys.tables where table_id = 1");

    if ($res != 0) {
        echo "Statement ok! cursor=" . ovrmos_cursor($res) . "\n";
        $colnb = ovrmos_num_fields($res);
        echo "Output columns=" . $colnb . "\n";
        for ($i=1; $i <= $colnb; $i++) {
            $name = ovrmos_field_name($res, $i);
            $type = ovrmos_field_type($res, $i);
            $len = ovrmos_field_len($res, $i);
            echo "Column " . $i . " name=" . $name . " type=" . $type . " len=" .
$len . "\n";
        }
        ovrmos_result_all($res);
        ovrmos_free_result($res);
    }
    ovrmos_close($conn);
}
?>
```

# ovrimos\_result

ovrimos\_result -- Retrieves the output column

## Description

string **ovrimos\_result** ( int \$result\_id, [mixed](#) \$field )

Retrieves the output column specified by *field*.

## Parameters

*result\_id*

A result identifier, returned by [ovrimos\\_execute\(\)](#) or [ovrimos\\_exec\(\)](#).

*field*

Either as a string with the field name or as an 1-based index.

## Return Values

Returns the column as a string, **FALSE** on failure.

# ovrimos\_rollback

ovrimos\_rollback -- Rolls back the transaction

## Description

bool **ovrimos\_rollback** ( int \$connection\_id )

Rolls back the transaction.

## Parameters

*connection\_id*

The Ovrimos connection identifier, returned by [ovrimos\\_connect\(\)](#).

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [ovrimos\\_commit\(\)](#)