

# MySQL Select

**Summary**: in this tutorial, you'll learn how to use the MySQL SELECT statement without referencing any table.

Typically, you use a SELECT (https://www.mysqltutorial.org/basic-mysql-tutorial-aspx/mysql-select/) statement to select data from a table in the database:

```
SELECT select_list
FROM table_name;
```

MySQL doesn't require the FROM clause. It means that you can have a SELECT statement without the FROM clause like this:

```
SELECT select_list;
```

Here's a trivial example:

```
SELECT 1 + 1;
```

## Output:

```
+----+
| 1 + 1 |
+----+
| 2 |
+----+
1 row in set (0.00 sec)
```

MySQL has many built-in functions like string, date, and Math functions. And you can use the SELECT statement to execute these functions.

The following example returns the current date and time of the MySQL server:

```
SELECT NOW();
```

### Output:

The NOW() function returns the current date & time of the server on which MySQL runs. The NOW() function doesn't have any parameters. To call it, you place the parentheses () after the function name.

If a function has parameters, you need to pass arguments into it. For example, concatenate strings into one string, you can use the CONCAT() function:

```
SELECT CONCAT('John',' ','Doe');
```

## Output:

The CONCAT() function accepts one or more strings and concatenates them into a single string.

## The dual table

Sometimes, you still need to use the FROM clause but you don't want to reference any actual table. In this case, you can use the dual table in the FROM clause:

```
SELECT select_list
FROM dual;
```

The dual table is a dummy table, not an actual table.

The dual is also necessary in case you need other clauses of the SELECT statement. Without the FROM clause, the SELECT statement would not be valid.

## A quick introduction to the column alias

By default, MySQL uses the expression specified in the SELECT clause as the column name of the result set. To change a column name of the result set, you can use a column alias:

```
SELECT expression AS column_alias;
```

To assign an alias to a column, you place the AS keyword after the expression followed by a column alias. The AS keyword is optional, so you can skip it like this:

```
SELECT expression column_alias;
```

For example:

```
SELECT CONCAT('John',' ','Doe') AS name;
```

#### Output:

If the column alias contains spaces, you need to place it inside quotes like this:

```
SELECT CONCAT('Jane',' ','Doe') AS 'Full name';
```

## Output:

```
+----+
| Full name |
+-----+
| John Doe |
```

```
+----+
1 row in set (0.00 sec)
```

## Summary

- MySQL SELECT statement doesn't require the FROM clause
- Use the dual table if you want to use the FROM clause but don't want to reference a table.
- Assign an alias to a column to make it more readable.