

[HTML](#)[CSS](#)[MORE ▾](#)

# w3schools.com

THE WORLD'S LARGEST WEB DEVELOPER SITE

# SQL Working With Dates

[< Previous](#)[Next >](#)

## SQL Dates

The most difficult part when working with dates is to be sure that the format of the date you are trying to insert, matches the format of the date column in the database.

As long as your data contains only the date portion, your queries will work as expected. However, if a time portion is involved, it gets more complicated.

## SQL Date Data Types

**MySQL** comes with the following data types for storing a date or a date/time value in the database:

- DATE - format YYYY-MM-DD
- DATETIME - format: YYYY-MM-DD HH:MI:SS
- TIMESTAMP - format: YYYY-MM-DD HH:MI:SS
- YEAR - format YYYY or YY

- DATE - format YYYY-MM-DD
- DATETIME - format: YYYY-MM-DD HH:MI:SS
- SMALLDATETIME - format: YYYY-MM-DD HH:MI:SS
- TIMESTAMP - format: a unique number

**Note:** The date types are chosen for a column when you create a new table in your database!

## SQL Working with Dates

You can compare two dates easily if there is no time component involved!

Assume we have the following "Orders" table:

OrderId	ProductName	OrderDate
1	Geitost	2008-11-11
2	Camembert Pierrot	2008-11-09
3	Mozzarella di Giovanni	2008-11-11
4	Mascarpone Fabioli	2008-10-29

Now we want to select the records with an OrderDate of "2008-11-11" from the table above.

We use the following SELECT statement:

```
SELECT * FROM Orders WHERE OrderDate='2008-11-11'
```

The result-set will look like this:

	OrderId	ProductName	OrderDate	
	1	Geitost	2008-11-11	
	3	Mozzarella di Giovanni	2008-11-11	

Now, assume that the "Orders" table looks like this (notice the time component in the "OrderDate" column):

OrderId	ProductName	OrderDate
1	Geitost	2008-11-11 13:23:44
2	Camembert Pierrot	2008-11-09 15:45:21
3	Mozzarella di Giovanni	2008-11-11 11:12:01
4	Mascarpone Fabioli	2008-10-29 14:56:59

If we use the same SELECT statement as above:

```
SELECT * FROM Orders WHERE OrderDate='2008-11-11'
```

we will get no result! This is because the query is looking only for dates with no time portion.

**Tip:** To keep your queries simple and easy to maintain, do not allow time components in your dates!

[< Previous](#)
[Next >](#)




HTML

CSS

MORE ▾



**SPILLS  
HAPPEN**  
**SOAK  
IT UP!**



**FREE Merck  
Safety Spill Kit**

With every purchase  
of 3 bottles of  
Chemizorb® Absorbents

[Learn More](#)

**MERCK**

**Supelco®**

## COLOR PICKER



## HOW TO

- Tabs
- Dropdowns
- Accordions
- Side Navigation
- Top Navigation
- Modal Boxes



HTML

CSS

MORE ▼

Progress Bars

Parallax

Login Form

HTML Includes

Google Maps

Range Sliders

Tooltips

Slideshow

Filter List

Sort List



## SHARE



## CERTIFICATES

HTML

CSS

JavaScript

SQL

Python

PHP

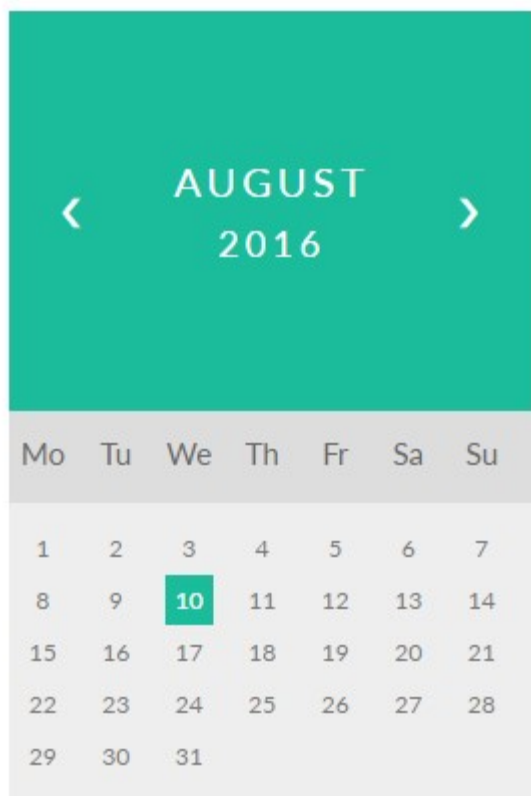
jQuery

Bootstrap

XML

[Read More »](#)

# How To Create a Calendar With CSS



Màn Hình Lcd Dell 27"  
P2719H (Đen)

**5.590.000đ**  
~~5.750.000đ~~



Máy Tính Để Bàn/ Pc  
Asus Rog Huracan...

**29.990.000đ**






Bộ Mạch Chính  
Mainboard As

**1.439.000đ**

Bộ Mạch Chính  
Mainboard As

**2.090.000đ**  
~~2.550.000đ~~

[HTML](#)[CSS](#)[MORE](#)

## Thiết Kế Nội Thất Chung Cư Đẹp

Miễn phí thiết kế 2D 3D khi  
thi công

[REPORT ERROR](#)[PRINT PAGE](#)[FORUM](#)[ABOUT](#)

## Top Tutorials

[HTML Tutorial](#)  
[CSS Tutorial](#)  
[JavaScript Tutorial](#)  
[How To Tutorial](#)  
[SQL Tutorial](#)  
[Python Tutorial](#)  
[W3.CSS Tutorial](#)  
[Bootstrap Tutorial](#)  
[PHP Tutorial](#)  
[jQuery Tutorial](#)  
[Java Tutorial](#)  
[C++ Tutorial](#)

## Top Examples

[HTML Examples](#)  
[CSS Examples](#)  
[JavaScript Examples](#)  
[How To Examples](#)  
[SQL Examples](#)  
[Python Examples](#)  
[W3.CSS Examples](#)  
[Bootstrap Examples](#)  
[PHP Examples](#)  
[jQuery Examples](#)  
[Java Examples](#)  
[XML Examples](#)

## Top References

[HTML Reference](#)  
[CSS Reference](#)  
[JavaScript Reference](#)  
[SQL Reference](#)  
[Python Reference](#)  
[W3.CSS Reference](#)  
[Bootstrap Reference](#)  
[PHP Reference](#)  
[HTML Colors](#)  
[jQuery Reference](#)  
[Java Reference](#)  
[Angular Reference](#)

## Web Certificates

[HTML Certificate](#)  
[CSS Certificate](#)  
[JavaScript Certificate](#)  
[SQL Certificate](#)  
[Python Certificate](#)  
[jQuery Certificate](#)  
[PHP Certificate](#)  
[Bootstrap Certificate](#)  
[XML Certificate](#)

[Get Certified »](#)

[HTML](#)[CSS](#)[MORE ▾](#)

W3Schools is optimized for learning, testing, and training. Examples might be simplified to improve reading and basic understanding. Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness of all content. While using this site, you agree to have read and accepted our terms of use, cookie and privacy policy.

Copyright 1999-2020 by Refsnes Data. All Rights Reserved.

Powered by W3.CSS.

