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**Procedure:** Why is the week number returned wrong? (SQL Server)

**Source:** [**LINK**](http://www.windowsitpro.com/article/john-savills-windows-faqs/why-is-the-week-number-returned-by-sql-server-wrong-14340)

**Permalink:** [**LINK**](http://heelpbook.altervista.org/2012/why-is-the-week-number-returned-wrong-sql-server/)

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# **Why is the week number returned wrong? (SQL Server)**

**SCENARIO**

**Example**:

select datepart(wk,'19990323')

returns **13** when it should be **12**.

This is because **SQL Server** starts counting weeks from **Jan 1**.

Week 1 = January 1

**SOLUTION #1**

The ISO standard is that **week 1** is the first week with 4 days in it. The following code can be used (**@date** is the datetime) to return the **ISO week**:

declare @ISOweek as integer

DECLARE @date datetime

SELECT @date = getdate()

select @ISOweek= datepart(wk,@date)+1-datepart(wk,'Jan 4,'+CAST(datepart(yy,@date) as CHAR(4)))

if (@ISOweek=0)

select @ISOweek=datepart(wk, 'Dec '+ CAST(24+datepart(day,@date) as

CHAR(2))+','+CAST(datepart(yy,@date)-1 as CHAR(4)))+1

print @ISOweek

**SOLUTION #2**

Shouldn’t you just look at the day of the week of **January** the 1st this year?

If that’s friday, or later that week, then **week 1** is actually **week 0**…

So:

DECLARE @weekday INT

DECLARE @change INT

SET @change = 0

SELECT @weekday = DATEPART(weekday, 'Jan 1 ' + CAST(DATEPART(year, Getdate()) AS CHAR(4)))

IF @weekday > 5 SET @change = -1

SELECT DATEPART(week, GETDATE()) + @change