

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
```