

Part 27 –DateTime functions continued

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In this session we will learn

- DatePart, DateAdd and DateDiff functions in SQL Server
- A practical example of using these functions

Prerequisite

Part 25 - DateTime functions in SQL Server

Part 26 - DateTime functions continued...

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DatePart, DateAdd and DateDiff

DatePart(DatePart, Date) - Returns an integer representing the specified DatePart. This function is similar to DateName(). DateName() returns nvarchar, whereas DatePart() returns an integer.

--Examples:

```
Select DATEPART(weekday, '2012-08-30 19:45:31.793') -- returns 5
SELECT DATENAME(weekday, '2012-08-30 19:45:31.793') -- returns Thursday
```

DATEADD (datepart, NumberToAdd, date) - Returns the DateTime, after adding specified NumberToAdd, to the datepart specified of the given date.

Examples:

```
Select DateAdd(DAY, 20, '2012-08-30 19:45:31.793')
-- Returns 2012-09-19 19:45:31.793
Select DateAdd(DAY, -20, '2012-08-30 19:45:31.793')
-- Returns 2012-08-10 19:45:31.793
```

DATEDIFF(datepart, startdate, enddate) - Returns the count of the specified datepart boundaries crossed between the specified startdate and enddate.

--Examples:

```
Select DATEDIFF(MONTH, '11/30/2005', '01/31/2006') -- returns 2
Select DATEDIFF(DAY, '11/30/2005', '01/31/2006') -- returns 62
```

DatePart	Abbreviation
year	yy, yyyy
quarter	qq, q
month	mm, m
dayofyear	dy, y
day	dd, d
week	wk, ww
weekday	dw
hour	hh
minute	mi, n
second	ss, s
millisecond	ms
microsecond	mcs
nanosecond	ns
TZoffset	tz

Calculating Age

Id	Name	DateOfBirth
1	Sam	1980-12-30 00:00:00.000
2	Pam	1982-09-01 12:02:36.260
3	John	1985-08-22 12:03:30.370
4	Sara	1979-11-29 12:59:30.670



Id	Name	DateOfBirth	DOB
1	Sam	1980-12-30 00:00:00.000	31 Years 8 Months 2 Days old
2	Pam	1982-09-01 12:02:36.260	30 Years 0 Months 0 Days old
3	John	1985-08-22 12:03:30.370	27 Years 0 Months 10 Days old
4	Sara	1979-11-29 12:59:30.670	32 Years 9 Months 3 Days old

```
DECLARE @DOB datetime, @tmpdate datetime, @years int, @months int, @days int
SET @DOB = '10/08/1982'

SELECT @tmpdate = @DOB

SELECT @years = DATEDIFF(YEAR, @tmpdate, GETDATE()) -
CASE
    WHEN (MONTH(@DOB) > MONTH(GETDATE())) OR
         (MONTH(@DOB) = MONTH(GETDATE()) AND DAY(@DOB) > DAY(GETDATE()))
    THEN 1 ELSE 0
END
SELECT @tmpdate = DATEADD(YEAR, @years, @tmpdate)

SELECT @months = DATEDIFF(MONTH, @tmpdate, GETDATE()) -
CASE
    WHEN DAY(@DOB) > DAY(GETDATE())
    THEN 1 ELSE 0
END
SELECT @tmpdate = DATEADD(MONTH, @months, @tmpdate)

SELECT @days = DATEDIFF(DAY, @tmpdate, GETDATE())

SELECT @years as Years, @months as Months, @days as [Days]
```

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Additional Resources

- PRAGIM Home Page:

- <http://www.PragimTech.com>

- Resources:

- ASP.NET Interview Questions
- <http://www.VenkatASPInterview.Blogspot.com>
- C# Interview Questions
- <http://www.VenkatCSharpInterview.Blogspot.com>

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