SQL Server Tutorial

Part 125 - EOMONTH function in SQL Server 2012

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In this session we will learn

- EOMONTH function in SQL Server

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series
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Suggested Videos
Part 122 - IIF function in SQL Server
Part 123 - TRY_PARSE function in SQL Server 2012
Part 124 - TRY_CONVERT function in SQL Server 2012

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EOMONTH function in SQL Server 2012

EOMONTH function
- **Introduced in SQL Server 2012**
- **Returns the last day of the month of the specified date**

Syntax : EOMONTH (start_date [, month_to_add])

Parameter	Description
start_date	The date for which to return the last day of the month
month_to_add	Optional. Number of months to add to the start_date. EOMONTH adds the specified number of months to start_date, and then returns the last day of the month for the resulting date.

Example : Returns last day of the November month

```
SELECT EOMONTH('11/20/2015') AS LastDay
```

LastDay
30/11/2015

EOMONTH function in SQL Server 2012

Example : Returns last day of the month of February from a NON-LEAP year

```sql
SELECT EOMONTH('2/20/2015') AS LastDay
```
→

LastDay
28/02/2015

Example : Returns last day of the month of February from a LEAP year

```sql
SELECT EOMONTH('2/20/2016') AS LastDay
```
→

LastDay
29/02/2016

month_to_add optional parameter can be used to add or subtract a specified number of months from the start_date, and then return the last day of the month from the resulting date.

Adds 2 months to the start_date and returns the last day of the month from the resulting date

```sql
SELECT EOMONTH('3/20/2016', 2) AS LastDay
```
→

LastDay
31/05/2016

Subtracts 1 month from the start_date and returns the last day of the month from the resulting date

```sql
SELECT EOMONTH('3/20/2016', -1) AS LastDay
```
→

LastDay
29/02/2016

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EOMONTH function in SQL Server 2012

Using EOMONTH function with table data : Returns the last day of the month from the DateOfBirth of every employee

```sql
SELECT Name, DateOfBirth, EOMONTH(DateOfBirth) AS LastDay
FROM Employees
```
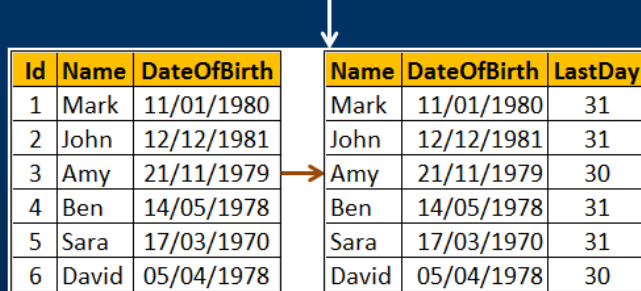
Id	Name	DateOfBirth
1	Mark	11/01/1980
2	John	12/12/1981
3	Amy	21/11/1979
4	Ben	14/05/1978
5	Sara	17/03/1970
6	David	05/04/1978

Name	DateOfBirth	LastDay
Mark	11/01/1980	31/01/1980
John	12/12/1981	31/12/1981
Amy	21/11/1979	30/11/1979
Ben	14/05/1978	31/05/1978
Sara	17/03/1970	31/03/1970
David	05/04/1978	30/04/1978

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EOMONTH function in SQL Server 2012

Use DATEPART function to retrieve just the last day instead of the full date

```sql
SELECT Name, DateOfBirth, DATEPART(DD,EOMONTH(DateOfBirth)) AS LastDay
FROM Employees
```

Id	Name	DateOfBirth
1	Mark	11/01/1980
2	John	12/12/1981
3	Amy	21/11/1979
4	Ben	14/05/1978
5	Sara	17/03/1970
6	David	05/04/1978

Name	DateOfBirth	LastDay
Mark	11/01/1980	31
John	12/12/1981	31
Amy	21/11/1979	30
Ben	14/05/1978	31
Sara	17/03/1970	31
David	05/04/1978	30

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Additional Resources

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Resources:

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