SQL Server Tutorial

Part 128 - DateTime2FromParts function in SQL Server 2012

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In this session we will learn

- DateTime2FromParts function in SQL Server

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series
http://www.youtube.com/user/kudvenkat/playlists

Suggested Videos
Part 125 - EOMONTH function in SQL Server 2012
Part 126 - DATEFROMPARTS function in SQL Server
Part 127 - Difference between DateTime and SmallDateTime in SQL Server

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DateTime2FromParts function

DateTime2FromParts function
- **Introduced in SQL Server 2012**
- **Returns DateTime2**
- **The data type of all the parameters is integer**
- **If invalid argument values are specified, the function returns an error**
- **If any of the required arguments are NULL, the function returns null**
- **If the precision argument is null, the function returns an error**

Syntax : `DATETIME2FROMPARTS(year,month,day,hour,minute,seconds,fractions,precision)`

Example : All the function arguments have valid values, so **DATETIME2FROMPARTS** returns DATETIME2 value as expected

```sql
SELECT DATETIME2FROMPARTS (2015, 11, 15, 20, 55, 55, 0, 0) AS [DateTime2]
```

DateTime2
2015-11-15 20:55:55

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DateTime2FromParts function

Example : Invalid value specified for month parameter, so the function returns an error

```
SELECT DATETIME2FROMPARTS ( 2015, 15, 15, 20, 55, 55, 0, 0 ) AS [DateTime2]
```

Cannot construct data type datetime2, some of the
arguments have values which are not valid

Example : If any of the required arguments are NULL, the function returns null. NULL specified for month parameter, so the function returns NULL

```
SELECT DATETIME2FROMPARTS ( 2015, NULL, 15, 20, 55, 55, 0, 0 ) AS [DateTime2]
```

DateTime2
NULL

Example : If the precision argument is null, the function returns an error

```
SELECT DATETIME2FROMPARTS ( 2015, 15, 15, 20, 55, 55, 0, NULL ) AS [DateTime2]
```

Scale argument is not valid. Valid expressions for data
type datetime2 scale argument are integer constants and
integer constant expressions

DateTime2FromParts function

TIMEFROMPARTS : Returns time value

Syntax : `TIMEFROMPARTS (hour,minute,seconds,fractions,precision)`

Next video : Difference between DateTime and DateTime2

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Additional Resources

PRAGIM Home Page:

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Resources:

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