Dates and Times in SQL Server

http://BrentOzar.com/Community

Type	Note	Range	Size	Fractional Precision?	Accuracy
DATETIME	*Not recommended for new development*	1753-01-01 to 9999-12-31	8 bytes	No	Rounded to .000, .003, or .007 seconds
SMALLDATETIME		1900-01-01 to 2079-06-06	4 bytes	No	One minute
DATE	SQL 2008 + *Smaller than an int*	0001-01-01 to 9999-12-31	3 bytes	No	One day
TIME	SQL 2008 +	00:00:00.0000000 to 23:59:59.9999999	3-5 bytes	Yes	100 nanosecs (configurable)
DATETIME2	SQL 2008 +	0001-01-01 00:00:00 to 9999-12-31 23:59:59.9999999	6-8 bytes	Yes	100 nanosecs (configurable)
DATETIMEOFFSET	SQL 2008 +	Same as DATETIME2 (in UTC)	8-10 bytes	Yes	100 nanosecs (configurable)

Selected Functions

GetDate()

Cast(expression as data_type(length))

Convert(data_type(length), expression, style)

DatePart(datepart, date)

DateDiff(datepart, startdate, enddate)

DateAdd(datepart, number, date)

IsDate(expression)

SQL Server 2008 +

SysDatetime()

SQL Server 2012

Try_Convert(data_type(length), expression, style)

Try_Parse(string AS datatype USING culture)*

*Uses the CLR

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