# SQL Server Data Types 2012 – 2000

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| **Exact Numerics** | |
| [bit](http://technet.microsoft.com/en-us/library/ms177603(v=sql.105).aspx) | [numeric](http://technet.microsoft.com/en-us/library/ms187746(v=sql.105).aspx) |
| [tinyint](http://technet.microsoft.com/en-us/library/ms187745(v=sql.105).aspx) | [decimal](http://technet.microsoft.com/en-us/library/ms187746(v=sql.105).aspx) |
| [smallint](http://technet.microsoft.com/en-us/library/ms187745(v=sql.105).aspx) | [smallmoney](http://technet.microsoft.com/en-us/library/ms179882(v=sql.105).aspx) |
| [int](http://technet.microsoft.com/en-us/library/ms187745(v=sql.105).aspx) | [money](http://technet.microsoft.com/en-us/library/ms179882(v=sql.105).aspx) |
| [bigint](http://technet.microsoft.com/en-us/library/ms187745(v=sql.105).aspx) |  |

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| **Approximate Numerics** | |
| [float](http://technet.microsoft.com/en-us/library/ms173773(v=sql.105).aspx) | [real](http://technet.microsoft.com/en-us/library/ms173773(v=sql.105).aspx) |

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| **Date and Time** | |
| [smalldatetime](http://technet.microsoft.com/en-us/library/ms182418(v=sql.105).aspx) | [datetimeoffset](http://technet.microsoft.com/en-us/library/bb630289(v=sql.105).aspx) ***(2008 and higher)*** |
| [datetime](http://technet.microsoft.com/en-us/library/ms187819(v=sql.105).aspx) | [date](http://technet.microsoft.com/en-us/library/bb630352(v=sql.105).aspx) ***(2008 and higher)*** |
| [datetime2](http://technet.microsoft.com/en-us/library/bb677335(v=sql.105).aspx) ***(2008 and higher)*** | [time](http://technet.microsoft.com/en-us/library/bb677243(v=sql.105).aspx) ***(2008 and higher)*** |
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| **Character Strings** | |
| [char](http://technet.microsoft.com/en-us/library/ms176089(v=sql.105).aspx) | [text](http://technet.microsoft.com/en-us/library/ms187727(v=sql.105).aspx) |
| [varchar](http://technet.microsoft.com/en-us/library/ms176089(v=sql.105).aspx) |  |

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| **Unicode Character Strings** | |
| [nchar](http://technet.microsoft.com/en-us/library/ms186939(v=sql.105).aspx) | [ntext](http://technet.microsoft.com/en-us/library/ms187993(v=sql.105).aspx) |
| [nvarchar](http://technet.microsoft.com/en-us/library/ms186939(v=sql.105).aspx) |  |

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| **Binary Strings** | |
| [binary](http://technet.microsoft.com/en-us/library/ms188362(v=sql.105).aspx) | [image](http://technet.microsoft.com/en-us/library/ms174409(v=sql.105).aspx) |
| [varbinary](http://technet.microsoft.com/en-us/library/ms188362(v=sql.105).aspx) |  |

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| **Other Data Types** | |
| [cursor](http://technet.microsoft.com/en-us/library/ms190498(v=sql.105).aspx) | [uniqueidentifier](http://technet.microsoft.com/en-us/library/ms187942(v=sql.105).aspx) |
| [sql\_variant](http://technet.microsoft.com/en-us/library/ms173829(v=sql.105).aspx) | [xml](http://technet.microsoft.com/en-us/library/ms187339(v=sql.105).aspx) ***(2005 and higher)*** |
| [table](http://technet.microsoft.com/en-us/library/ms175010(v=sql.105).aspx) | [hierarchyid](http://technet.microsoft.com/en-us/library/bb677290(v=sql.105).aspx) ***(2008 and higher)*** |
| [timestamp](http://technet.microsoft.com/en-us/library/ms182776(v=sql.105).aspx) |  |

# Spatial Data (SQL Server)

***(2008 and higher)***

[Other Versions](javascript:;)



* [SQL Server 2008 R2](http://technet.microsoft.com/en-us/library/bb933790(d=printer,v=sql.105).aspx)
* [SQL Server 2008](http://technet.microsoft.com/en-us/library/bb933790(d=printer,v=sql.100).aspx)

Spatial data represents information about the physical location and shape of geometric objects. These objects can be point locations or more complex objects such as countries, roads, or lakes.

SQL Server supports two spatial data types: the geometry data type and the geography data type.

The geometry Data Type

* The geometry type represents data in a Euclidean (flat) coordinate system.
* The geometry data type (planar) supported by SQL Server conforms to the Open Geospatial Consortium (OGC) Simple Features for SQL Specification version 1.1.0.

The geography Data Type

* The geography type represents data in a round-earth coordinate system.
* The geography data type (geodetic) stores ellipsoidal (round-earth) data, such as GPS latitude and longitude coordinates.

Both data types are implemented as .NET common language runtime (CLR) data types in SQL Server.