SQL SERVER Data Type Cheat Sheet

Data Category	Data Type	Size	Value Range
Exact numeric	Bit	1	1, 0, or NULL.
	Tinyint	1	0 to 255
	Smallint	2	-2^{15} (-32,768) to 2^{15}-1 (32,767)
	Int	4	-2^{31} (-2,147,483,648) to 2^{31}-1 (2,147,483,647)
	Bigint	8	-2^{63} (-9,223,372,036,854,775,808) to 2^{63}-1 (9,223,372,036,854,775,807)
	Smallmoney	4	- 214,748.3648 to 214,748.3647
	Money	8	-922,337,203,685,477.5808 to 922,337,203,685,477.5807
	numeric[(p[,s])]	5-17	
	decimal [(p[,s])]	5-17	
Approximate numeric	Float	4-8	- 1.79E+308 to -2.23E-308, 0 and 2.23E-308 to 1.79E+308
	Real/float(24)	4	- 3.40E + 38 to -1.18E - 38, 0 and 1.18E - 38 to 3.40E + 38
Character strings	char [(N)]	N	N = 1 to 8000 non-Unicode characters bytes
	varchar [(N or max)]	N or 2^31-1	N = 1 to 8000 non-Unicode characters bytes Max = 2^31-1 bytes (2 GB) non-Unicode characters bytes
	Text	2^31-1	1 to 2^31-1 (2,147,483,647) non-Unicode characters bytes
Unicode character strings	nchar [(N)]	N	N = 1 to 4000 UNICODE UCS-2 bytes
	nvarchar [(N | max)]	N or 2^31-1	N = 1 to 4000 UNICODE UCS-2 bytes 1 to 2^31-1 (2,147,483,647) UNICODE UCS-2 bytes
	Ntext	2^30-1	Maximum size 2^30 - 1 (1,073,741,823) bytes
Binary strings	binary [(N)]	N	N = 1 to 8000 bytes
	varbinary [(N | max)]	N or 2^31-1	N = 1 to 8000 bytes Max = 0 to 2^31-1 bytes
	Image	2^31-1	0 to 2^31-1 (2,147,483,647) bytes
Other data types	Uniqueidentifier	16	xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx (hex decimal)
	Timestamp	8	binary(8) or varbinary(8)
	rowversion	8	binary(8) or varbinary(8)
	xml	2^31-1	xml([CONTENT | DOCUMENT] xml_schema_collection)
	sql_variant	8016	data type that stores values of various SQL Server-supported data types
	Hierarchyid	892	$6*logA_n$ bits where n is child node
	Cursor		
	Table		
	Sysname	256	
Date and time	Date	3	0001-01-01 through 9999-12-31
	time [(fractional second precision)]	3 to 5	00:00:00.0000000 through 23:59:59.9999999
	Smalldatetime	4	Date: 1900-01-01 through 2079-06-06 Time: 00:00:00 through 23:59:59
	Datetime	8	Date: January 1, 1753, through December 31, 9999 Time: 00:00:00 through 23:59:59.997
	datetime2 [(fractional seconds precision)]	6 to 8	Date: 0001-01-01 through 9999-12-31 Time: 00:00:00 through 23:59:59.9999999
	datetimeoffset [(fractional seconds precision)]	8 to 10	Date: 0001-01-01 through 9999-12-31 Time: 00:00:00 through 23:59:59.9999999 Time zone offset: -14:00 through +14:00
Spatial	Geography	2^31-1	
	Geometry	2^31-1	

Note: text, ntext, image and timestamp data type will be removed from future version.