

Numeric

| | |
|---------------------------------|---|
| BIT (n) | Bit-value type. Parameter “n” indicates the number of bits per value, from 1 to 64. Default 1. |
| TINYINT (n) [UNSIGNED] | A very small integer. Can be signed or unsigned. Signed: -128 to 127, Unsigned: 0 to 255. |
| SMALLINT (n) [UNSIGNED] | A small integer. Can be signed or unsigned. Signed: -32,768 to 32,767, Unsigned: 0 to 65,535 |
| MEDIUMINT (n) [UNSIGNED] | A medium-sized integer. Can be signed or unsigned. Signed: -8,388,608 to 8,388,607,Unsigned: 0 to 16,777,215 |
| INT (n) [UNSIGNED] | A normal-sized integer. Can be signed or unsigned. Signed: -2,147,483,648 to 2,147,483,647,Unsigned: 0 to 4,294,967,295 |
| INTEGER (n) [UNSIGNED] | A synonym for INT. Can be signed or unsigned. Signed: -2,147,483,648 to 2,147,483,647, Unsigned: 0 to 4,294,967,295 |
| BIGINT (n) [UNSIGNED] | A large integer. Can be signed or unsigned. Signed: -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 Unsigned: 0 to 18,446,744,073,709,551,615 |
| DECIMAL (n [, d]) [UNSIGNED] | A number with decimal places. Parameter “n” is the precision or number of digits, and “d” is the number of digits after the decimal point (the scale). Maximum for n is 65 and maximum for d is 30. (Note the UNSIGNED parameter is deprecated) |
| DEC (n [,d]) | Synonym for DECIMAL |
| NUMERIC (n [,d]) | Synonym for DECIMAL |
| FIXED (n [,d]) | Synonym for DECIMAL |
| FLOAT (n [,d]) | A small single-precision floating-point number. Uses parameters of “n” for number of digits and “d” for number of digits after the decimal place. Note: the parameters of FLOAT are deprecated as of v8.0.17 Range: -3.402823466E+38 to -1.175494351E-38, 0, and 1.175494351E-38 to 3.402823466E+38 |
| DOUBLE (n [,d]) | A normal-sized double-precision floating-point number. Uses parameters of “n” for number of digits and “d” for number of digits after the decimal place. Note: the parameters of FLOAT are deprecated as of v8.0.17 Range: -1.7976931348623157E+308 to -2.2250738585072014E-308, 0, and 2.2250738585072014E-308 to 1.7976931348623157E+308 |
| DOUBLE PRECISION | Synonym for DOUBLE |
| REAL | Synonym for DOUBLE |

Date

| | |
|-----------------|--|
| DATE | A date value (no time). Range 1000-01-01 to 9999-12-31 |
| DATETIME (fsp) | A date and time value. The parameter “fsp” is fractional seconds precision or the number of fractional seconds that can be stored. Range: 1000-01-01 00:00:00.000000 to 9999-12-31 23:59:59.999999 |
| TIMESTAMP (fsp) | A timestamp value, stores date and time. Has a smaller range than DATETIME. The parameter “fsp” is fractional seconds precision or the number of fractional seconds that can be stored. Range: 1970-01-01 00:00:01.000000 UTC to 2038-01-19 03:14:07.999999 |
| TIME (fsp) | A time value. The parameter “fsp” is fractional seconds precision or the number of fractional seconds that can be stored Range: -838:59:59.000000 to 838:59:59.000000 |
| YEAR | A year in a 4-digit format. Range: 1901 to 2155 |

Character

| | |
|-------------------|---|
| CHAR (n) | A fixed-length string. Right-padded with spaces up to the specified length of “n”. Up to 255 bytes. |
| VARCHAR (n) | A variable-length string. The length parameter of “n” can be from 0 to 65,535. Up to 65,535 bytes. |
| BINARY (n) | Similar to CHAR but stores binary byte strings rather than nonbinary strings. Parameter “n” is the number of bytes. |
| VARBINARY (n) | Similar to VARCHAR but stores binary byte strings rather than nonbinary strings. Parameter “n” is the number of bytes. |
| BLOB (n) | A BLOB column that can store a value up to “n” bytes. Up to 65,535 bytes. |
| TINYBLOB | A BLOB column with a smaller maximum length, up to 255 bytes. |
| TEXT (n) | A text column, and parameter “n” is the maximum number of bytes. Up to 65,535 bytes bytes. |
| TINYTEXT | A text column with a smaller maximum length, up to 255 bytes. |
| MEDIUMBLOB | A BLOB with a higher maximum length than BLOB. Up to 16,777,215 (2^24 – 1) bytes |
| MEDIUMTEXT | A text column with a higher maximum length than TEXT. Up to 16,777,215 (2^24 – 1) bytes |
| LOBLOB | A BLOB column with a high maximum length. Up to 4,294,967,295 or 4GB (2^32 – 1) bytes |
| LONGTEXT | A text column with a high maximum length. Up to 4,294,967,295 or 4GB (2^32 – 1) bytes |
| ENUM (value_list) | A string object that can have only one value from the list of values specified, or NULL. Can have up to 65,535 items in its list. |
| SET (value_list) | A string object that can have zero or more values from the list of values specified. Can have up to 64 items in its list. |
| JSON | Stores JSON Data |

Other

| | |
|--------------------|---|
| GEOMETRY | Stores geometry values of any type |
| POINT | Stores a point in geometry |
| LINESTRING | Stores a line shape |
| POLYGON | Stores a polygon shape |
| MULTIPOINT | Stores a collection of points |
| MULTILINESTRING | Stores a collection of lines |
| MULTIPOLYGON | Stores a collection of polygons |
| GEOMETRYCOLLECTION | Store a collection of geometry objects |
| BOOL | Synonym for TINYINT(1). Zero is false, nonzero values are true. |
| BOOLEAN | Synonym for TINYINT(1). Zero is false, nonzero values are true. |