

Data Types

Data Types in MariaDB

Numeric Data Types

Numeric Data Type Overview

Overview and usage of the numeric data types.

TINYINT

Tiny integer, -128 to 127 signed.

BOOLEAN

Synonym for TINYINT(1).

SMALLINT

Small integer from -32768 to 32767 signed.

MEDIUMINT

Medium integer from -8388608 to 8388607 signed.

INT

Integer from -2147483648 to 2147483647 signed.

INTEGER

Synonym for INT

BIGINT

Large integer.

DECIMAL

² *A packed "exact" fixed-point number.*

DEC, NUMERIC, FIXED

Synonyms for DECIMAL

NUMBER

Synonym for DECIMAL in Oracle mode.

FLOAT

Single-precision floating-point number

DOUBLE

Normal-size (double-precision) floating-point number

DOUBLE PRECISION

REAL and DOUBLE PRECISION are synonyms for DOUBLE.

BIT

Bit field type.

Floating-point Accuracy

Not all floating-point numbers can be stored with exact precision

INT1

A synonym for TINYINT.

INT2

Synonym for SMALLINT.

INT3

Synonym for MEDIUMINT.

INT4

Synonym for INT.

INT8

Synonym for BIGINT.

String Data Types

String Literals

- 2 *Strings are sequences of characters and are enclosed with quotes.*

BINARY

- 1 *Fixed-length binary byte string.*

BLOB

Binary large object up to 65,535 bytes.

BLOB and TEXT Data Types

- 4 *Binary large object data types and the corresponding TEXT types.*

CHAR

- 1 *Fixed-length string.*

CHAR BYTE

- 1 *Alias for BINARY.*

ENUM

Enumeration, or string object that can have one value chosen from a list of values.

INET4

For storage of IPv4 addresses.

INET6

For storage of IPv6 addresses.

JSON Data Type

Compatibility data type that is an alias for LONGTEXT.

MEDIUMBLOB

Medium binary large object up to 16,777,215 bytes.

MEDIUMTEXT

A TEXT column with a maximum length of 16,777,215 characters.

LOBLOB

Long BLOB holding up to 4GB.

LONG and LONG VARCHAR

LONG and LONG VARCHAR are synonyms for MEDIUMTEXT.

LONGTEXT

- 2 *A TEXT column with a maximum length of 4,294,967,295 characters.*

ROW

Data type for stored procedure variables.

TEXT

A TEXT column with a maximum length of 65,535 characters.

TINYBLOB

Tiny binary large object up to 255 bytes.

TINYTEXT

A TEXT column with a maximum length of 255 characters.

VARBINARY

Variable-length binary byte string.

VARCHAR

- 2 *Variable-length string.*

SET Data Type

- 1 *Set, or string object that can have 0 or more values chosen from a list of values.*

UUID Data Type

- 1 *Data type intended for the storage of UUID data.*

Data Type Storage Requirements

- 4 *Storage requirements for the various data types.*

Supported Character Sets and Collations

2 [MariaDB supports the following character sets and collations.](#)

Character Sets and Collations

Setting character set and collation for a language.

Date and Time Data Types

DATE

The date type YYYY-MM-DD.

TIME

Time format HH:MM:SS.sssss

DATETIME

4 [Date and time combination displayed as YYYY-MM-DD HH:MM:SS.](#)

TIMESTAMP

7 [YYYY-MM-DD HH:MM:SS](#)

YEAR Data Type

A four-digit year.

Future developments for temporal types

1 [My current project is a forecasting application with dates going out to 263...](#)

How to define a date in order to import an empty date from a CSV file?

1 [I have a CSV file containing amongst other things a couple of date columns....](#)

Which datatypes are supported by MariaDB

5 [I would like to know which datatypes are supported by MariaDB. I'm asking s...](#)

Other Data Types Articles

Geometry Types

Supported geometry types.

AUTO_INCREMENT

3 [Automatic increment.](#)

Data Type Storage Requirements

4 [Storage requirements for the various data types.](#)

AUTO_INCREMENT FAQ

1 [Frequently-asked questions about auto_increment.](#)

NULL Values

4 [NULL represents an unknown value.](#)

There are 8 related questions.

[↑ Columns, Storage Engines, and Plugins ↑](#) [Character Sets and Collations →](#)

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