Cheatography

MySQL 5.7 Data Types Cheat Sheet

by beeftornado via cheatography.com/66503/cs/16598/

Numeric Types

	Signed	Unsigned	Storage
TINYINT	127	255	1 byte
SMALLINT	32K	65K	2 bytes
MEDIUMINT	8M	16M	3 bytes
INT	2^{31}	2^{32}	4 bytes
BIGINT	2^{63}-1	2^{64}-1	8 bytes
FLOAT			4 bytes
DOUBLE			8 bytes

2^{24} = 16M
2^{31} = 2B
2^{32} = 4B

Date and Time Types

YEAR	1 byte
DATE	3 bytes
TIME	3 bytes + fractional seconds storage
DATETIME	5 bytes + fractional seconds storage
TIMESTAMP	4 bytes + fractional seconds storage

NOTE ON CHARSET

To calculate the number of bytes used to store a particular CHAR, VARCHAR, or TEXT column value, you must take into account the character set used for that column and whether the value contains multibyte characters. In particular, when using a utf8 Unicode character set, you must keep in mind that not all characters use the same number of bytes. utf8mb3 and utf8mb4 character sets can require up to three and four bytes per character, respectively.
All columns share a **maximum row size** of 65,535 bytes, excluding BLOB and TEXT columns.

Official Documentation

String Types

CHAR(M)	M bytes, up to 255
BINARY(M)	M bytes, up to 255
VARCHAR(M)	M + 1 bytes, up to 255
	M + 2 bytes, more than 255 (65KB)
TINYBLOB	L + 1 bytes, where L < 2^8
TINYTEXT	L + 1 bytes, where L < 2^8 (256B)
TEXT	L + 2 bytes, where L < 2^{16} (65KB)
BLOB	L + 2 bytes, where L < 2^{16}
MEDIUMTEXT	L + 3 bytes, where L < 2^{24} (16MB)
MEDIUMBLOB	L + 3 bytes, where L < 2^{24}
LONGTEXT	L + 4 bytes, where L < 2^{32} (4GB)
LONGBLOB	L + 4 bytes, where L < 2^{32}
JSON	L + 4 bytes, where L < 2^{32}
ENUM	1 or 2 bytes (65K max values)
SET	1, 2, 3, 4, or 8 bytes (64 max values)

2^8 = 256
2^{16} = 65K
2^{24} = 16M
2^{32} = 4B

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