

## 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	231	232	4 bytes
BIGINT	2 <sup>63</sup> -1	2 <sup>64</sup> -1	8 bytes
FLOAT			4 bytes
DOUBLE			8 bytes
2 <sup>24</sup> = 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 CHARSE**

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  ${\bf maximum\ row\ size}$  of 65,535 bytes, excluding BLOB and TEXT columns.

Official Documentation

String Types		
CHAR(M)	™ bytes, up to 255	
$BINARY(\mathbb{M})$	M bytes, up to 255	
VARCHAR(M)	M + 1 bytes, up to 255	
	M + 2 bytes, more than 255 (65KB)	
TINYBLOB	${\tt L}$ + 1 bytes, where ${\tt L}$ < $2^8$	
TINYTEXT	$_{\rm L}$ + 1 bytes, where $_{\rm L}$ < 28 (256B)	
TEXT	${\tt L}$ + 2 bytes, where ${\tt L}$ < 2 <sup>16</sup> (65KB)	
BLOB	${\tt L}$ + 2 bytes, where ${\tt L}$ < $2^{16}$	
MEDIUMTEXT	${\tt L}$ + 3 bytes, where ${\tt L}$ < $2^{24}$ (16MB)	
MEDIUMBLOB	${\tt L}$ + 3 bytes, where ${\tt L}$ < $2^{24}$	
LONGTEXT	${\tt L}$ + 4 bytes, where ${\tt L}$ < $2^{32}$ (4GB)	
LONGBLOB	${\tt L}$ + 4 bytes, where ${\tt L}$ < $2^{32}$	
JSON	${\tt L}$ + 4 bytes, where ${\tt L}$ < $2^{32}$	
ENUM	1 or 2 bytes (65K max values)	
SET	1, 2, 3, 4, or 8 bytes (64 max values)	
28 = 256		
$2^{16} = 65K$ $2^{24} = 16M$		
$2^{32} = 4B$		



By beeftornado

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