DATA Types in MYSQL

**INT** − A normal-sized integer that can be signed or unsigned. If unsigned, the allowable range is from 0 to 4294967295. You can specify a width of up to 10 digits.

**TINYINT** − A very small integer that can be signed or unsigned. If signed, the allowable range is from -128 to 127. If unsigned, the allowable range is from 0 to 255. You can specify a width of up to 3 digits.

**SMALLINT** − A small integer that can be signed or unsigned. If unsigned, the allowable range is from 0 to 65535. You can specify a width of up to 5 digits.

**MEDIUMINT** − A medium-sized integer that can be signed or unsigned. If unsigned, the allowable range is from 0 to 16777215. You can specify a width of up to 8 digits.

**BIGINT** − A large integer that can be signed or unsigned. If unsigned, the allowable range is from 0 to 18446744073709551615. You can specify a width of up to 20 digits.

**FLOAT(M,D)** − You can define the display length (M) and the number of decimals (D). This is not required and will default to 10,2, where 2 is the number of decimals and 10 is the total number of digits (including decimals).

**DOUBLE(M,D)** − You can define the display length (M) and the number of decimals (D). This is not required and will default to 16,4, where 4 is the number of decimals. Decimal precision can go to 53 places for a DOUBLE. REAL is a synonym for DOUBLE

**DATE** − A date in YYYY-MM-DD format, For example, December 30th, 1973 would be stored as 1973-12-30.

**DATETIME** − A date and time combination in YYYY-MM-DD HH:MM:SS format, For example, 3:30 in the afternoon on December 30th, 1973 would be stored as 1973-12-30 15:30:00.

**TIMESTAMP** − A timestamp between midnight, January 1st, 1970 and sometime in 2037. This looks like the previous DATETIME format, only without the hyphens between numbers; 3:30 in the afternoon on December 30th, 1973 would be stored as 19731230153000 ( YYYYMMDDHHMMSS ).

**TIME** − Stores the time in a HH:MM:SS format.

**YEAR(M)** − Stores a year in a 2-digit or a 4-digit format. If the length is specified as 2 (for example YEAR(2)), YEAR can be between 1970 to 2069 (70 to 69). If the length is specified as 4, then YEAR can be 1901 to 2155. The default length is 4.

**CHAR(M)** − A fixed-length string between 1 and 255 characters in length (for example CHAR(5)), right-padded with spaces to the specified length when stored. Defining a length is not required, but the default is 1.

**VARCHAR(M)** − A variable-length string between 1 and 255 characters in length. For example, VARCHAR(25). You must define a length when creating a VARCHAR field.