

MySQL Main Data Types

SQL Numeric Data Types

| Datatype | From | To |
|----------|----------------------------|---------------------------|
| bit | 0 | 1 |
| tinyint | 0 | 255 |
| smallint | -32,768 | 32,767 |
| int | -2,147,483,648 | 2,147,483,647 |
| bigint | -9,223,372,036,854,775,808 | 9,223,372,036,854,775,807 |
| decimal | $-10^{38} + 1$ | $10^{38} - 1$ |
| numeric | $-10^{38} + 1$ | $10^{38} - 1$ |
| float | $-1.79E + 308$ | $1.79E + 308$ |
| real | $-3.40E + 38$ | $3.40E + 38$ |

SQL Date and Time Data Types

| Datatype | Description |
|-----------|--|
| DATE | Stores date in the format YYYY-MM-DD |
| TIME | Stores time in the format HH:MI:SS |
| DATETIME | Stores date and time information in the format YYYY-MM-DD HH:MI:SS |
| TIMESTAMP | Stores number of seconds passed since the Unix epoch ('1970-01-01 00:00:00' UTC) |
| YEAR | Stores year in 2 digit or 4 digit format. Range 1901 to 2155 in 4-digit format. Range 70 to 69, representing 1970 to 2069. |

SQL Character and String Data Types

| Datatype | Description |
|----------|-------------|
|----------|-------------|

| | |
|--------------|--|
| CHAR | Fixed length with maximum length of 8,000 characters |
| VARCHAR | Variable length storage with maximum length of 8,000 characters |
| VARCHAR(max) | Variable length storage with provided max characters, not supported in MySQL |
| TEXT | Variable length storage with maximum size of 2GB data |

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