



Data Types

Built-in Data Types

- Numeric: `TINYINT`, `INT`, `BIGINT`
- Floating numbers: `DECIMAL`, `FLOAT`
- Strings: `CHAR`, `VARCHAR`, `BLOB`, `TEXT`
- Date and Time: `DATE`, `TIME`, `DATETIME`



*Every relational database has its own **maximum and minimum size limit** for different-different data types which we do not need to remember. The objective is to have an idea of what data type to use in specific conditions.*

Numeric – Data Types

Datatype	From	To
Tinyint	0	255
int	-2,147,483,648	2,147,483,647
bigint	-9,223,372,036,854,775,808	9,223,372,036,854,775,807

Floating Numbers

Datatype	From	To
Decimal	$-10^{38} + 1$	$10^{38} - 1$
Float	$-1.79E + 308$	$1.79E + 308$

Strings

DataType	Description
CHAR	Fixed length (Max - 8,000 characters)
VARCHAR	Variable length storage (Max – 8,000 characters)
BLOB	For binary large objects
TEXT	Variable length storage (Max Size – 1GB data)

Date and Time

Datatype	Description
DATE	Stores date (format YYYY-MM-DD)
TIME	Stores time (format HH:MI:SS)
DATETIME	Stores information of date and time (format YYYY-MM-DD HH:MI:SS)