

Most Important Data Types in SQL

Numeric Data Types

Used to store numbers.

Data Type	Description	Example Command
INT / INTEGER	Whole numbers	CREATE TABLE test (age INT);
SMALLINT	Smaller whole numbers	SMALLINT
BIGINT	Very large whole numbers	BIGINT
DECIMAL(p,s) / NUMERIC	Exact decimal values (money)	salary DECIMAL(10,2)
FLOAT / REAL	Approximate decimal values	marks FLOAT

Character / String Data Types

Data Type	Description	Example Command
CHAR(n)	Fixed-length text	gender CHAR(1)
VARCHAR(n)	Variable-length text	name VARCHAR(50)
TEXT	Large text paragraphs	description TEXT

Date & Time Data Types

Data Type	Description	Example Command
DATE	Stores only date	dob DATE
TIME	Stores time only	start_time TIME
DATETIME	Date + time	created_at DATETIME
TIMESTAMP	Time zone-based time	updated_at TIMESTAMP

Most Important Data Types in SQL

Boolean Data Type

Data Type	Description	Example Command
BOOLEAN	True/False values	is_active BOOLEAN

Binary Data Types

Data Type	Description	Example Command
BLOB	Binary files (images, pdfs)	user_image BLOB

Spatial / JSON Data Types (Modern Databases)

Data Type	Description	Example Command
JSON	Structured JSON data	details JSON
GEOMETRY	Geo-location data	location GEOMETRY