

# Tipos de dados dos principais bancos de dados

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| Data Type   | Name      | MySQL   | Postgre          | SQL Server       | Oracle    | Firebird  | Intervalo (MySQL)   | Bytes |
|-------------|-----------|---------|------------------|------------------|-----------|-----------|---|-------|
| Numérico    | BOOLEAN   | TINYINT | SIM              | TINYINT          | ENUM      | SMALLINT  | 0 ou 1 (FALSE ou TRUE)  | 1 bit |
|             | TINYINT   | SIM     | SMALLINT         | SIM              | NUMBER    | SMALLINT  | -128 à 127  | 1     |
|             | SMALLINT  | SIM     | SIM              | SIM              | NUMBER    | SIM       | -32,768 à 32,767<br>0 à 65,535 se UNSIGNED  | 2     |
|             | INT       | SIM     | SIM              | SIM              | NUMBER    | SIM       | -2,147,483,648 à 2,147,483,647<br>0 à 4,294,967,295 se UNSIGNED   | 4     |
|             | BIGINT    | SIM     | SIM              | SIM              | NUMBER    | INT64     | -9,223,372,036,854,775,808 à +9,223,372,036,854,775,807<br>0 à 18,446,744,073,709,551,615 se UNSIGNED                 | 8     |
|             | FLOAT     | SIM     | REAL             | SIM              | FLOAT     | SIM       | -3.402823466E+38 à -1.17544351E-38<br>1.175494351E-38 à 3.402823466E+38 se UNSIGNED                                   | 4     |
|             | DOUBLE    | SIM     | DOUBLE PRECISION | DOUBLE PRECISION | FLOAT     | SIM       | -1.7976931348623157E+308 à -2.2250738585072014E-308,<br>2.2250738585072014E-308 à 1.7976931348623157E+308 se UNSIGNED | 8     |
|             | NUMERIC   | SIM     | SIM              | DECIMAL          | NUMBER    | SIM       | Mesmo intervalo de DOUBLE   | X + 2 |
| String      | CHAR      | SIM     | SIM              | SIM              | SIM       | SIM       |   | X     |
|             | VARCHAR   | SIM     | SIM              | SIM              | SIM       | SIM       |   | X + 1 |
| Data e Hora | DATE      | SIM     | SIM              | SIM              | SIM       | TIMESTAMP | "1000-01-01" – "9999-12-31" (ano, mês, dia)   | 3     |
|             | TIME      | SIM     | SIM              | SIM              | TIMESTAMP | TIMESTAMP | "-838:59:59" – "838:59:59" (horas, minutos, segundos)   | 3     |
|             | DATETIME  | SIM     | TIMESTAMP        | SIM              | TIMESTAMP | TIMESTAMP | "1000-01-01 00:00:00" - "9999-12-31 23:59:59"   | 8     |
|             | TIMESTAMP | SIM     | SIM              | SIM              | SIM       | SIM       | 19700101000000 – 2037+  | 4     |
| Outros      | ENUM      | SIM     | SIM              | NÃO TEM          | SIM       | NÃO TEM   |   |       |