# TIPOS DE DATOS EN POSTGRESQL

NUMERIC TYPE

| Name | Storage Size | Description | Range |
|------|------|------|------|
| smallint | 2 bytes | small-range integer | -32768 to +32767 |
| integer | 4 bytes | typical choice for integer | -2147483648 to +2147483647 |
| bigint | 8 bytes | large-range integer | -9223372036854775808 to +9223372036854775807 |
| decimal | variable | user-specified precision, exact | up to 131072 digits before the decimal point; up to 16383 digits after the decimal point |
| numeric | variable | user-specified precision, exact | up to 131072 digits before the decimal point; up to 16383 digits after the decimal point |
| real | 4 bytes | variable-precision, inexact | 6 decimal digits precision |
| double precision | 8 bytes | variable-precision, inexact | 15 decimal digits precision |
| smallserial | 2 bytes | small autoincrementing integer | 1 to 32767 |

| serial | 4 bytes | autoincrementing integer | 1 to 2147483647 |
|---|---|---|---|
| bigserial | 8 bytes | large autoincrementing integer | 1 to 9223372036854775807 |

CHARACTER TYPE

| Name | Description |
|---|---|
| character varying(*n*), varchar(*n*) | variable-length with limit |
| character(*n*), char(*n*) | fixed-length, blank padded |
| text | variable unlimited length |

MONETARY TYPE

| Name | Storage Size | Description | Range |
|---|---|---|---|
| money | 8 bytes | currency amount | -92233720368547758.08 to +92233720368547758.07 |

## GEOMETRIC TYPE

| Name | Storage Size | Description | Representation |
|------|--------------|-------------|----------------|
| point | 16 bytes | Point on a plane | (x,y) |
| line | 32 bytes | Infinite line | {A,B,C} |
| lseg | 32 bytes | Finite line segment | ((x1,y1),(x2,y2)) |
| box | 32 bytes | Rectangular box | ((x1,y1),(x2,y2)) |
| path | 16+16n bytes | Closed path (similar to polygon) | ((x1,y1),...) |
| path | 16+16n bytes | Open path | [(x1,y1),...] |
| polygon | 40+16n bytes | Polygon (similar to closed path) | ((x1,y1),...) |
| circle | 24 bytes | Circle | <(x,y),r> (center point and radius |

## REFERENCIA

-*Chapter 8. Data Types*. (2023, 9 febrero). PostgreSQL Documentation.
https://www.postgresql.org/docs/current/datatype.html