Postgresql Data type

1. Numeric Data Type.

1. Smallint - 2 bytes - -32768 to 32767
2. integer - 4 bytes - -2147483648 to +2147483647
3. bigint - 8 bytes - -9223372036854775808 to 9223372036854775807
4. decimal - variable - up to 131072 digits before the decimal point; up to 16383 digits after the decimal point.
5. numeric - variable - up to 131072 digits before the decimal point; up to 16383 digits after the decimal point.
6. real - 4 bytes 6 - decimal digits precision.
7. double - 8 bytes - 15 decimal digits precision
8. serial - 4 bytes - 1 to 2147483647
9. bigserial - 8 bytes - 1 to 9223372036854775807

2 . Character Data Type.

1. char(size) - Here size is the number of characters to store. Fixed-length strings. Space padded on right to equal size characters.
2. character(size) - Here size is the number of characters to store. Fixed-length strings. Space padded on right to equal size characters.
3. varchar(size) - Here size is the number of characters to store. Variable-length string.
4. character varying(size) Here size is the number of characters to store. Variable-length string.
5. Text - Variable-length string.

3.Date/Time Data Type.

1. timestamp [ (p) ] [ without time zone ] - 8 bytes both date and time
2. timestamp [ (p) ] with time zone - 8 bytes both date and time, with time zone
3. interval [ (p) ] - 12 bytes
4. time [ (p) ] [ without time zone ] - 8 bytes ,times of day only
5. time [ (p) ] with time zone - 12 bytes,times of day only, with time zone

4.Monetary type.

1. Money - currency amount - 8 bytes - 92233720368547758.08 to +92233720368547758.07

5.Binary Data Types.

1. Bytea - 1 or 4 bytes plus the actual binary string - variable-length binary string

6.Boolean type.

1. Boolean

7.Enumerated Types.

* Enum keyword are used to make enumerated keyword

8.Geometric Data Type.

1. point 16 bytes point on a plane (x,y)
2. line 32 bytes infinite line (not fully implemented) ((x1,y1),(x2,y2))
3. lseg 32 bytes finite line segment ((x1,y1),(x2,y2))
4. box 32 bytes rectangular box ((x1,y1),(x2,y2))
5. path 16+16n bytes closed path (similar to polygon) ((x1,y1),...)
6. path 16+16n bytes open path [(x1,y1),...]
7. polygon40+16n polygon (similar to closed path) ((x1,y1),...)
8. circle 24 bytes circle <(x,y),r> (center point and radius)

9.Text Search data type.

1. tsvector It is used to display a document in a form, which enhance text search.
2. tsquery It is used to represent a text query.

10.Network Address Data type.

1. inet It stores the IPv4 and IPv6 hosts and networks. 7 or 19 bytes
2. cidr It is used to store the IPv4 and IPv6 networks. 7 or 19 bytes
3. macaddr It stores the MAC addresses. 6 bytes

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