

PostgreSQL Data Types		PostgreSQL Internal functions		
BIGINT INT8	Integer, 8 byte, signed	Mathematical ABS (value) ACOS (value) ASIN (value) ATAN (value) ATAN2 (val1, val2) CBRT (value) CEILING (value) COS (value) COT (value) DEGREES (value) EXP (value) FLOOR (value) LN (value) LOG ([base,] value) MOD (val1, val2) PI () POWER (base, exp) RADIANS (value) RANDOM () ROUND (value [, decimal_places]) SETSEED (value) SIGN (value) SIN (value) SQRT (value) TAN (value) TRUNC(val [, dec.places]) Geometric AREA (object) BOX (from [, point]) CENTER (object) CIRCLE (from [, radius]) DIAMETER (circle) HEIGHT (box) ISCLOSED (path) ISOPEN (path) LENGTH (object) LSEG (from [, point]) NPOINTS (object) PATH (polygon) PCLOSE (path) POPEN (path) POINT (object) POLYGON (object [, circ]) RADIUS (circle) WIDTH (box) System Information CURRENT_DATABASE () CURRENT_SCHEMA () CURRENT_SCHEMAS (t/f) CURRENT_USER SESSION_USER INET_CLIENT_ADDR () INET_CLIENT_PORT () INET_SERVER_ADDR () INET_SERVER_PORT () USER VERSION ()	String ASCII (value) BIT_LENGTH (string) BTRIM (string [, chars]) CHAR_LENGTH (string) CHR (int) CONVERT (string USING charset) CONVERT (string [src_enc,] dest_enc) DECODE (string, type) ENCODE (bytea, type) INITCAP (string) LENGTH (string) LOWER (string) LPAD (string, length [, fill]) LTRIM (string [, chars]) MD5 (string) OCTET_LENGTH (string) OVERLAY (str PLACING str FROM start [FOR cnt]) PG_CLIENT_ENCODING () POSITION (substr IN str) QUOTE_IDENT (string) QUOTE_LITERAL (string) REPEAT (string, count) REPLACE (str FROM str, TO str) RPAD (string, length [, fill]) RTRIM (string [, chars]) SPLIT_PART (str, delimiter, field) STRPOS (string, substring) SUBSTR (string FROM start [FOR count]) SUBSTRING (string FROM start [FOR count]) SUBSTRING (string FROM pattern [FOR escape]) TO_ASCII (value [, enc]) TO_CHAR (value, format) TO_DATE (value, format) TO_HEX (value) TO_NUMBER (value, format) TO_TIMESTAMP (value [, format]) TRIM ([leading trailing both] [chars] FROM str) TRANSLATE (string FROM string TO string) Privileges PG_HAS_ROLE ([user,] role, privilege) HAS_(*)_PRIVILEGE ([user,] (*), privilege) (*) = [table database function language schema tablespace]	Aggregate AVG (expr) BIT_AND (expr) BIT_OR (expr) BOOL_AND (expr) BOOL_OR (expr) COUNT (expr) EVERY (expr) MIN (expr) MAX (expr) STDDEV (expr) SUM (expr) VARIANCE (expr) Conditional CASE WHEN condition THEN result [WHEN ...] [ELSE result] END COALESCE (value [, ...]) NULLIF (val1, value2) GREATEST (value [, ...]) LEAST (value [, ...]) Date and Time AGE (ts [, ts]) CURRENT_DATE CURRENT_TIME CURRENT_TIMESTAMP DATE_PART (part, ts) DATE_TRUNC (part, ts) EXTRACT (fld FROM val) ISFINITE (value) JUSTIFY_HOURS (interval) JUSTIFY_DAYS (interval) LOCALTIME LOCALTIMESTAMP NOW () TIMEOFDAY () Subquery ALL (subquery) ANY (subquery) EXISTS (subquery) IN (subquery list) SOME (subquery) Network BROADCAST (inet) HOST (inet) MASKLEN (inet) SET_MASKLEN (inet, int) NETMASK (inet) HOSTMASK (inet) NETWORK (inet) TEXT (inet) ABBREV (inet) FAMILY (inet) TRUNC (macaddr)
BIGSERIAL SERIAL8	Autoincrementing integer, 8 byte			
BIT(n)	fixed-length bit string			
BOOLEAN BOOL	Logical Boolean (true/false)			
BOX	Rectangular box in the plane			
BYTEA	Binary data (byte array)			
CHAR(n)	Fixed-length character string			
CIDR	IPv4 or IPv6 network address			
CIRCLE	Circle in the plane			
DATE	Calendar date (year, month, day)			
DOUBLE PRECISION FLOAT8	Double precision floating-point number			
INET	IPv4 or IPv6 host address			
INTEGER INT INT4	Integer, 4 byte, signed			
INTERVAL(n)	Time span			
LINE	Infinite line in the plane			
LSEG	Line segment in the plane			
MACADDR	MAC address			
MONEY	Currency amount			
NUMERIC DECIMAL (precision, scale)	Exact numeric of selectable precision			
PATH	Geometric path in the plane			
POINT	Geometric point in the plane			
POLYGON	Closed geometric path in the plane			
REAL FLOAT4	Single precision floating-point number			
SERIAL	Autoincrementing integer, 4 byte			
SMALLINT INT2	Integer, 2 byte, signed			
TEXT	Variable-length character string			
TIME [with time zone]	Time of day			
TIMESTAMP [with time zone]	Date and time			
VARBIT(n)	Variable-length bit string			
VARCHAR(n)	Variable-length character string			

Useful queries	INFORMATION_SCHEMA
<pre>-- Limit query SELECT * FROM table_name LIMIT limit OFFSET offset -- Handle sequences • CREATE SEQUENCE name [INCREMENT value] [MINVALUE value] [MAXVALUE value] [START value]; • SELECT CURRVAL(name); • SELECT NEXTVAL(name); • SETVAL(name TO value); • DROP SEQUENCE name; -- Transactions and Savepoints • START TRANSACTION [ISOLATION LEVEL { SERIALIZABLE REPEATABLE READ READ COMMITTED READ UNCOMMITTED }] [READ WRITE READ ONLY] • SAVEPOINT name; • ROLLBACK [WORK TRANSACTION] TO [SAVEPOINT] savepoint_name • COMMIT [WORK TRANSACTION];</pre>	<pre>-- List tables SELECT table_name FROM information_schema.tables WHERE table_type = 'BASE TABLE' AND table_schema NOT IN ('pg_catalog', 'information_schema') -- List table fields SELECT column_name FROM information_schema.columns WHERE table_name = 'table_name' -- List table constraints SELECT constraint_name, constraint_type FROM information_schema.table_constraints WHERE table_name = 'table_name' -- List table indices SELECT relname FROM pg_class WHERE oid IN (SELECT indexrelid FROM pg_index, pg_class WHERE pg_class.relname='table_name' AND pg_class.oid=pg_index.indrelid AND indisunique != 't' AND indisprimary != 't') -- List functions SELECT routine_name FROM information_schema.routines WHERE specific_schema NOT IN ('pg_catalog', 'information_schema') AND type_udt_name != 'trigger'; -- List triggers SELECT DISTINCT trigger_name FROM information_schema.triggers WHERE trigger_schema NOT IN ('pg_catalog', 'information_schema');</pre>