

pgAdmin 4

FileObjectToolsHelp

Browser

Servers (1)

PostgreSQL 15

Databases (2)

emp

Casts

Catalogs

Event Triggers

Extensions

Foreign Data W

Languages

Publications

Schemas

Subscriptions

postgres

Casts

Catalogs

Event Triggers

Extensions

Foreign Data W

Languages

Publications

Schemas

Subscriptions

Login/Group Roles

Tablespaces

Create

Delete/Drop

Refresh...

Restore...

Backup...

CREATE Script

Disconnect from database

ERD For Database

Maintenance...

Grant Wizard...

Search Objects...

PSQL Tool

Query Tool

Properties...

Database...

Cast...

Publication...

Subscription...

Event Trigger...

Extension...

Language...

Foreign Data Wrapper...

Schema...

Dashboard

Properties

SQL

Statistics

Dependencies

Dependents

Processes

Database sessions

TotalActiveIdle

Transactions per second

TransactionsCommitsRollbacks

InsertsUpdatesDeletes

Tuples out

FetchesReturned

Block I/O

ReadsHits

Database activity

SessionsLocksPrepared Transactions

Search

			PID	User	Application	Client	Backend start	Transaction start	State	Wait event	Blocking PIDs
✖	■	▶	7584	postgr...	pgAdmin 4 - DB:emp	::1	2023-05-15 21:31:24 ...	2023-05-15 21:35:48 ...	act...		

pgAdmin 4

FileObjectToolsHelp

Browserservers(1)PostgreSQL 15Databases(2)emp>Casts>Catalogs>Event Triggers>Extensions>Foreign Data Wrappers>Languages>Publications>Schemas>Subscriptions>postgres>Casts>Catalogs>Event Triggers>Extensions>Foreign Data Wrappers>Languages>Publications>Schemas>Subscriptions>Login/Group Roles>Tablespaces

emp/postgres@PostgreSQL 15

emp/postgres@PostgreSQL 15

QueryQuery HistoryScratch Pad

```
1 drop table student;
2 create table student(rollno int ,name varchar , address varchar);
3 insert into student values(10,'aditi','kopargoan');
4 insert into student (rollno,name)values (11,'abc');
5 select *from student;
6
7
```

Data OutputMessagesNotifications

	rollno integer	name character varying	address character varying
1	10	aditi	kopargoan
2	11	abc	[null]

Total rows: 2 of 2Query complete 00:00:00.069Ln 1, Col 20

Windows taskbar with search bar, icons for File Explorer, Chrome, Word, and system tray showing weather (27°C Partly cloudy) and date/time (11:56 PM 5/15/2023).

Server [localhost]: localhost

Database [postgres]: postgres

Port [5432]: 5432

Username [postgres]: postgres

Password for user postgres:

psql (15.2)

WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.

Type "help" for help.

postgres=# select * from emp;

id	name	salary
112	aditi	5500
113	ishwari	3000
114	gauri	7000
115	vidya	8500
116	sai	500
117	ram	2220
118	ram	5500
119	shree	7000

(8 rows)

postgres=#

```
postgres=# select id from emp;  
id
```

```
-----  
112  
113  
114  
115  
116  
117  
118  
119
```

```
(8 rows)
```

```
postgres=# select id from emp where id=112;  
id
```

```
-----  
112
```

```
(1 row)
```

```
postgres=# select name,salary from emp ;  
name | salary
```

```
-----+-----  
aditi | 5500  
ishwari | 3000  
gauri | 7000  
vidya | 8500  
sai | 500  
ram | 2220  
ram | 5500  
shree | 7000
```

```
(8 rows)
```

```
postgres=# select name from emp where salary=7000;  
name
```

```
-----  
gauri  
shree
```

```
(2 rows)
```

```
postgres=# select name from emp where salary>6000 and salary <1000;  
name
```

```
-----  
(0 rows)
```

```
postgres=#
```



Type here to search



```
postgres=# select distinct salary from emp;
 salary
```

```
-----
 8500
 7000
 3000
  500
 5500
 2220
(6 rows)
```

```
postgres=# select distinct name from emp;
 name
```

```
-----
 gauri
 vidya
 ishwari
 aditi
 sai
 shree
 ram
(7 rows)
```

```
postgres=# select distinct name,salary from emp;
 name | salary
```

```
-----+-----
 shree |    7000
 sai   |     500
 ishwari |    3000
 gauri |    7000
 ram   |    2220
 ram   |    5500
 vidya |    8500
 aditi |    5500
(8 rows)
```

```
postgres=# select * from emp order by salary ;
```

```
 id | name  | salary
----+-----+-----
 116 | sai   |    500
 117 | ram   |   2220
 113 | ishwari |   3000
 112 | aditi |   5500
 118 | ram   |   5500
 114 | gauri |   7000
 119 | shree |   7000
 115 | vidya |   8500
(8 rows)
```



Type here to search



```
postgres=# select *from emp;
```

id	name	salary
112	aditi	5500
113	ishwari	3000
114	gauri	7000
115	vidya	8500
116	sai	500
117	ram	2220
118	ram	5500
119	shree	7000

(8 rows)

```
postgres=# select * from emp order by salary ;
```

id	name	salary
116	sai	500
117	ram	2220
113	ishwari	3000
112	aditi	5500
118	ram	5500
114	gauri	7000
119	shree	7000
115	vidya	8500

(8 rows)

```
postgres=# select * from emp order by salary desc;
```

id	name	salary
115	vidya	8500
119	shree	7000
114	gauri	7000
112	aditi	5500
118	ram	5500
113	ishwari	3000
117	ram	2220
116	sai	500

(8 rows)

```
postgres=# select id,salary
```



Type here to search



```

postgres=# select id AS emp_id from emp;
 emp_id
-----
    112
    113
    114
    115
    116
    117
    118
    119
(8 rows)

postgres=# select name as emp_name , salary as emp_salary from emp;
 emp_name | emp_salary
-----+-----
    aditi |         5500
   ishvari |         3000
    gauri |         7000
   vidya |         8500
     sai |          500
     ram |         2220
     ram |         5500
    shree |         7000
(8 rows)

postgres=# select salary from emp;
 salary
-----
    5500
    3000
    7000
    8500
     500
    2220
    5500
    7000
(8 rows)

postgres=# select emp_salary from emp;
ERROR:  column "emp_salary" does not exist
LINE 1: select emp_salary from emp;
              ^
postgres=#

```



Type here to search



ERROR: column emp_salary does not exist

LINE 1: select emp_salary from emp;

^

postgres=# select *from emp;

id	name	salary
112	aditi	5500
113	ishwari	3000
114	gauri	7000
115	vidya	8500
116	sai	500
117	ram	2220
118	ram	5500
119	shree	7000

(8 rows)

postgres=# select *from emp limit 3;

id	name	salary
112	aditi	5500
113	ishwari	3000
114	gauri	7000

(3 rows)

postgres=# select id,salary from emp limit 4;

id	salary
112	5500
113	3000
114	7000
115	8500

(4 rows)

postgres=# seelct *from emp offset 3;

ERROR: syntax error at or near "seelct"

LINE 1: seelct *from emp offset 3;

^

postgres=# select *from emp offset 3;

id	name	salary
115	vidya	8500
116	sai	500
117	ram	2220
118	ram	5500
119	shree	7000

(5 rows)

postgres=#



Type here to search




```
postgres=# select *from emp offset 3;
```

id	name	salary
115	vidya	8500
116	sai	500
117	ram	2220
118	ram	5500
119	shree	7000

(5 rows)

```
postgres=# select id,salary from emp limit 4 offset 4;
```

id	salary
116	500
117	2220
118	5500
119	7000

(4 rows)

```
postgres=# select id,salary from emp limit 5 offset 6;
```

id	salary
118	5500
119	7000

(2 rows)

```
postgres=# select *from emp;
```

id	name	salary
112	aditi	5500
113	ishwari	3000
114	gauri	7000
115	vidya	8500
116	sai	500
117	ram	2220
118	ram	5500
119	shree	7000

(8 rows)

```
postgres=#
```



Type here to search



```
postgres=# create database college;
```

```
CREATE DATABASE
```

```
postgres=# create table teacher( id int, name varchar , address varchar);
```

```
CREATE TABLE
```

```
postgres=# create table student( rollno int, name varchar , address varchar);
```

```
CREATE TABLE
```

```
postgres=# show tables;
```

```
ERROR: unrecognized configuration parameter "tables"
```

```
postgres=# \dt+
```

```
          List of relations
Schema | Name   | Type  | Owner  | Persistence | Access method | Size  | Description
-----+-----+-----+-----+-----+-----+-----+-----
public | emp    | table | postgres | permanent   | heap          | 16 kB |
public | student | table | postgres | permanent   | heap          | 8192 bytes |
public | teacher | table | postgres | permanent   | heap          | 8192 bytes |
(3 rows)
```

```
postgres=# \d
```

```
          List of relations
Schema | Name   | Type  | Owner  |
-----+-----+-----+-----
public | emp    | table | postgres |
public | student | table | postgres |
public | teacher | table | postgres |
(3 rows)
```

```
postgres=# discribe student;
```

```
ERROR: syntax error at or near "discribe"
```

```
LINE 1: discribe student;
```

```
^
```

```
postgres=# \d student
```

```
          Table "public.student"
Column |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
rollno | integer        |           |          |
name   | character varying |           |          |
address | character varying |           |          |
```

```
postgres=# \d teacher
```

```
          Table "public.teacher"
Column |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
id     | integer        |           |          |
name   | character varying |           |          |
address | character varying |           |          |
```

```
postgres=#
```



Type here to search



27°C Partly cloudy



ENG IN 11:34 PM 5/15/2023



```
postgres=# select *from teacher;
```

id	name	address
100	sai	kopargoan
101	om	shirdi
102	ram	nashik
103	abc	ttt
13	abc	ttt

(5 rows)

```
postgres=# select * from student;
```

rollno	name	address
10	aditi	kopargoan
11	ishwari	kopargoan
12	abc	ppp
12	bac	rrr
13	abc	ttt

(5 rows)

```
postgres=# select *from teacher union select *from student;
```

id	name	address
100	sai	kopargoan
10	aditi	kopargoan
102	ram	nashik
101	om	shirdi
12	bac	rrr
11	ishwari	kopargoan
103	abc	ttt
13	abc	ttt
12	abc	ppp

(9 rows)

```
postgres=# select *from teacher intersect select *from student;
```

id	name	address
13	abc	ttt

(1 row)

```
postgres=# select *from teacher union all select *from student;
```

id	name	address
100	sai	kopargoan
101	om	shirdi
102	ram	nashik
103	abc	ttt
13	abc	ttt
10	aditi	kopargoan



```
postgres=# select *from emp;
```

id	name	salary
112	aditi	5500
113	ishwari	3000
114	gauri	7000
115	vidya	8500
116	sai	500
117	ram	2220
118	ram	5500
119	shree	7000

```
(8 rows)
```

```
postgres=# select sum(salary) from emp;
```

```
sum
```

```
-----  
39220
```

```
(1 row)
```

```
postgres=# select avg(salary) as average_sal from emp;
```

```
average_sal
```

```
-----  
4902.5000000000000000
```

```
(1 row)
```

```
postgres=# select max(salary) maximum_sal from emp;
```

```
maximum_sal
```

```
-----  
8500
```

```
(1 row)
```

```
postgres=# select min(salary) minimum_sal from emp;
```

```
minimum_sal
```

```
-----  
500
```

```
(1 row)
```



Type here to search



```
postgres=# drop table num_example;
DROP TABLE
postgres=# CREATE TABLE num_example
postgres=# (Id SERIAL PRIMARY KEY,
postgres=#  Name VARCHAR(50),
postgres=#  Age INTEGER,
postgres=#  Height NUMERIC(4,2)
postgres=# );
CREATE TABLE
postgres=#
postgres=# \d num_example
```

Table "public.num_example"				
Column	Type	Collation	Nullable	Default
id	integer		not null	nextval('num_example_id_seq'::regclass)
name	character varying(50)			
age	integer			
height	numeric(4,2)			

```
Indexes:
    "num_example_pkey" PRIMARY KEY, btree (id)
```

```
postgres=# CREATE TABLE char_example (
postgres=#   Id SERIAL PRIMARY KEY,
postgres=#   Name CHAR(10),
postgres=#   Description VARCHAR(100),
postgres=#   Notes TEXT
postgres=# );
CREATE TABLE
postgres=# \d char_example
```

Table "public.char_example"				
Column	Type	Collation	Nullable	Default
id	integer		not null	nextval('char_example_id_seq'::regclass)
name	character(10)			
description	character varying(100)			
notes	text			

```
Indexes:
    "char_example_pkey" PRIMARY KEY, btree (id)
```

```
postgres=#
```



```
DROP TABLE
postgres=# CREATE TABLE date_example (
postgres(#   Id SERIAL PRIMARY KEY,
postgres(#   Event_name VARCHAR(50),
postgres(#   Start_time TIMESTAMP WITHOUT TIME ZONE,
postgres(#   End_time TIMESTAMP WITH TIME ZONE,
postgres(#   Event_date DATE,
postgres(#   Duration INTERVAL
postgres(# );
CREATE TABLE
postgres=# \d date_example
```

Table "public.date_example"				
Column	Type	Collation	Nullable	Default
id	integer		not null	nextval('date_example_id_seq'::regclass)
event_name	character varying(50)			
start_time	timestamp without time zone			
end_time	timestamp with time zone			
event_date	date			
duration	interval			

```
Indexes:
    "date_example_pkey" PRIMARY KEY, btree (id)
```



```
postgres=# CREATE TABLE geometry_example (  
postgres(#   Id SERIAL PRIMARY KEY,  
postgres(#   Point_geom POINT,  
postgres(#   Box_geom BOX,  
postgres(#   Path_geom PATH,  
postgres(#   Polygon_geom POLYGON,  
postgres(#   Circle_geom CIRCLE  
postgres(# );  
CREATE TABLE  
postgres=# \d geometry_example  
          Table "public.geometry_example"  
+-----+-----+-----+-----+-----+  
| Column | Type | Collation | Nullable | Default |  
+-----+-----+-----+-----+-----+  
| id      | integer |          | not null | nextval('geometry_example_id_seq'::regclass) |  
| point_geom | point |          |          |          |  
| box_geom  | box   |          |          |          |  
| path_geom | path  |          |          |          |  
| polygon_geom | polygon |          |          |          |  
| circle_geom | circle |          |          |          |  
Indexes:  
    "geometry_example_pkey" PRIMARY KEY, btree (id)
```

```
postgres=# CREATE TABLE array_example (  
postgres(#   Id SERIAL PRIMARY KEY,  
postgres(#   Numbers INTEGER[],  
postgres(#   Words TEXT[]  
postgres(# );  
CREATE TABLE  
postgres=# INSERT INTO array_example (numbers, words)  
postgres-# VALUES  
postgres-#   ('{1, 2, 3, 4, 5}', '{"apple", "banana", "orange"}');  
ERROR:  syntax error at or near "{"  
LINE 3:   (`{1, 2, 3, 4, 5}', `{"apple", "banana", "orange"}');  
      ^  
  
postgres=# insert into array_example(number,words) values('{1,2,3,4,5}','{"apple","banana","orange"}');  
ERROR:  column "number" of relation "array_example" does not exist  
LINE 1: insert into array_example(number,words) values('{1,2,3,4,5}'...  
      ^  
  
postgres=# insert into array_example(numbers,words) values('{1,2,3,4,5}','{"apple","banana","orange"}');  
INSERT 0 1  
postgres=# select *from array_example;  
 id | numbers | words  
-----+-----+-----  
  1 | {1,2,3,4,5} | {apple,banana,orange}  
(1 row)
```