

PostgreSQL

Information for the Integrator.

Connect

- **locally**
 - `psql -U dorohd -d granular_access_db`
- **remotely**
 - The integrator has to ask the exposee for a url, since it's procedurally generated and only lasts 60min at a time.
- **command will look something like:**
 - `psql -h rncju-185-121-174-74.a.free.pinggy.link -p 33569 -U dorohd -d granular_access_db`

The reason I am using Pinggy to create a tunnel is because other tools like LT, it seemed to cause trouble when integrator tried to connect.

Useful commands once connected

- **\dn**
 - shows all schemas in the DB
- **\d**
 - shows all tables in a selected schema
- **\du**
 - shows all user permissions

Users

- username: dorohd
- password: ohnocringe

SCHEMAS

- public
 - with table: public_table
- read_only_data
 - with table: read_only_table
- write_only_data
 - with table: write_only_table
- restricted_data
 - with table: sensitive_table

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Permissions for dorohd

- **public tables**
 - INSERT, SELECT, UPDATE, DELETE
- **read_only_data tables**
 - SELECT
- **write_only_data tables**
 - INSERT
- **restricted_data tables**
 - SELECT USING 'department_id'
 - UPDATE USING 'username'

Screenshots from exposee's database.

```
lasse-rugaard-rasmussen@Rugaard-PC:~$ psql -h rnwkt-80-71-142-86.a.free.pinggy.link -p 44479 -U lasse -d si-04b
Password for user lasse:
psql (16.8 (Ubuntu 16.8-0ubuntu0.24.04.1), server 17.0 (Debian 17.0-1.pgdg120+1))
WARNING: psql major version 16, server major version 17.
        Some psql features might not work.
Type "help" for help.

si-04b=> \dn
          List of schemas
   Name  | Owner
-----+-----
 public  | pg_database_owner
(1 row)

si-04b=> SET search_path TO public
si-04b-> ;
SET
si-04b=> \d
          List of relations
 Schema | Name                | Type  | Owner
-----+-----+-----+-----
 public | customers            | table | si-04b
 public | customers_id_seq     | sequence | si-04b
 public | discounts            | table | si-04b
 public | discounts_id_seq     | sequence | si-04b
 public | employees            | table | si-04b
 public | employees_id_seq     | sequence | si-04b
 public | masked_employee_salary | view   | si-04b
 public | products            | table | si-04b
 public | products_id_seq     | sequence | si-04b
 public | purchases            | table | si-04b
 public | purchases_id_seq     | sequence | si-04b
(11 rows)

si-04b=> 
```

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```
si-04b=> SELECT * FROM masked_employee_salary;
 name | salary 
-----+-----
 troels | 
 david  | 
 anders | 
 lasse  |    1000
(4 rows)
```

```
si-04b=> SELECT * FROM employees
si-04b-> ;
ERROR:  permission denied for table employees
si-04b=>
```

```
ERROR:  permission denied for table products
si-04b=> INSERT INTO products (name,price) VALUES ('laptop', 5000);
ERROR:  permission denied for table products
si-04b=> 
```