pgAdmin 4 | User Management — pgAdmin | Access PostgreSQL server

http://localhost:5050/browser/

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Object Explorer

Dashboard ✕ Properties ✕ SQL ✕ Statistics ✕ Dependencies ✕ Dependents ✕ Processes ✕

fastapi_db/postgres@FastAPI DB

No limit

Query   Query History

- Servers (1)
  - FastAPI DB
    - Databases (2)
      - fastapi_db
        - Casts
        - Catalogs
        - Event Triggers
        - Extensions
        - Foreign Data Wrappers
        - Languages
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        - Subscriptions
      - postgres
    - Login/Group Roles
    - Tablespaces

```sql
1   CREATE TABLE users (
2       id SERIAL PRIMARY KEY,
3       username VARCHAR(50) NOT NULL UNIQUE,
4       email VARCHAR(100) NOT NULL UNIQUE,
5       created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
6   );
7
8   CREATE TABLE calculations (
9       id SERIAL PRIMARY KEY,
10      operation VARCHAR(20) NOT NULL,
11      operand_a FLOAT NOT NULL,
12      operand_b FLOAT NOT NULL,
13      result FLOAT NOT NULL,
14      timestamp TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
15      user_id INTEGER NOT NULL,
16      FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE
17  );
18
```

Data Output   Messages   Notifications

```
CREATE TABLE

Query returned successfully in 86 msec.
```

```sql
18
19  INSERT INTO users (username, email)
20  VALUES
21  ('alice', 'alice@example.com'),
22  ('bob', 'bob@example.com');
23
24  INSERT INTO calculations (operation, operand_a, operand_b, result, user_id)
25  VALUES
26  ('add', 2, 3, 5, 1),
27  ('divide', 10, 2, 5, 1),
28  ('multiply', 4, 5, 20, 2);
29
```

Data Output   Messages   Notifications

```
INSERT 0 3

Query returned successfully in 73 msec.
```

```
29
30   -- Retrieve all users
31   SELECT * FROM users;
32
33   -- Retrieve all calculations
34   SELECT * FROM calculations;
35
36   -- Join users and calculations
37   SELECT u.username, c.operation, c.operand_a, c.operand_b, c.result
38   FROM calculations c
39   JOIN users u ON c.user_id = u.id;
40
```

Data Output   Messages   Notifications

id [PK] integer	username character varying (50)	email character varying (100)	created_at timestamp without time zone
1	1	alice	alice@example.com	2025-11-04 02:19:33.405892
2	2	bob	bob@example.com	2025-11-04 02:19:33.405892

```
31   SELECT * FROM users;
32
33   -- Retrieve all calculations
34   SELECT * FROM calculations;
35
36   -- Join users and calculations
37   SELECT u.username, c.operation, c.operand_a, c.operand_b, c.result
38   FROM calculations c
39   JOIN users u ON c.user_id = u.id;
40
```

Data Output   Messages   Notifications

id [PK] integer	operation character varying (20)	operand_a double precision	operand_b double precision	result double precision	timestamp timestamp without time zone	user_id integer
1	1	add	2	3	5	2025-11-04 02:19:33.405892	1
2	2	divide	10	2	5	2025-11-04 02:19:33.405892	1
3	3	multiply	4	5	20	2025-11-04 02:19:33.405892	2

```sql
-- Retrieve all users
SELECT * FROM users;

-- Retrieve all calculations
SELECT * FROM calculations;

-- Join users and calculations
SELECT u.username, c.operation, c.operand_a, c.operand_b, c.result
FROM calculations c
JOIN users u ON c.user_id = u.id;
```

Data Output   Messages   Notifications

username character varying (50)	operation character varying (20)	operand_a double precision	operand_b double precision	result double precision
alice	add	2	3	5
alice	divide	10	2	5
bob	multiply	4	5	20

```sql
UPDATE calculations
SET result = 6
WHERE id = 1;  -- or whichever row you want to update
```

Data Output   Messages   Notifications

```
UPDATE 1

Query returned successfully in 94 msec.
```

```
43      WHERE id = 1;  -- or whichever row you want to update
44
45      DELETE FROM calculations
46      WHERE id = 2;  -- example record to remove
47
```

Data Output   Messages   Notifications

```
DELETE 1

Query returned successfully in 62 msec.
```