

CREATING THE USER AND CALCULATIONS TABLE

pgAdmin 4 — Mozilla Firefox

http://localhost:5050/browser/110%Sign inadmin@example.com (internal)

pgAdminFileObjectToolsHelp

Object Explorer

Servers (1)

fastapi_db

Databases (2)

fastapi_db

Casts

Catalogs

Event Triggers

Extensions

Foreign Data Wrappers

Languages

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Schemas

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postgres

Login/Group Roles

Tablespaces

fastapi_db/postgres@fastapi_db

fastapi_db/postgres@fastapi_db

No limit

Query

Query History

Scratch Pad

CREATE TABLE users (
id SERIAL PRIMARY KEY,
username VARCHAR(50) NOT NULL UNIQUE,
email VARCHAR(100) NOT NULL UNIQUE,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
CREATE TABLE calculations (
id SERIAL PRIMARY KEY,
operation VARCHAR(20) NOT NULL,
operand_a FLOAT NOT NULL,
operand_b FLOAT NOT NULL,
result FLOAT NOT NULL,
timestamp TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
user_id INTEGER NOT NULL,
FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE
);

Data Output

Messages

Notifications

CREATE TABLE

Query returned successfully in 55 msec.

Total rows:Query complete 00:00:00.055

LF

Ln 17, Col 3

INSERTING VALUES INTO THE USERS AND CALCULATIONS TABLE:

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QueryQuery HistoryScratch Pad

1

2

3

4

5

6

7

8

9

10

INSERT INTO users (username, email)

VALUES

('alice', 'alice@example.com'),

('bob', 'bob@example.com');

INSERT INTO calculations (operation, operand_a, operand_b, result, user_id)

VALUES

('add', 2, 3, 5, 1),

('divide', 10, 2, 5, 1),

('multiply', 4, 5, 20, 2);

Data OutputMessagesNotifications

INSERT 0 3

Query returned successfully in 44 msec.

Total rows:Query complete 00:00:00.044LF Ln 10, Col 27

PERFORMING SELECT OPERATIONS ON USERS, CALCULATIONS AND A JOIN OPERATION ON USERS AND CALCULATIONS.

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Query Query HistoryScratch Pad

```
1 -- Retrieve all users
2 SELECT * FROM users;
3
4 -- Retrieve all calculations
5 SELECT * FROM calculations;
6
7 -- Join users and calculations
8 SELECT u.username, c.operation, c.operand_a, c.operand_b, c.result
9 FROM calculations c
10 JOIN users u ON c.user_id = u.id;
```

Data OutputMessagesNotifications

Showing rows: 1 to 3Page No: 1 of 1

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

Total rows: 3Query complete 00:00:00.062LF Ln 10, Col 34

UPDATING VALUE IN CALCULATIONS

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QueryQuery HistoryScratch Pad

1

2

3UPDATE calculations

4SET result = 6

5WHERE id = 1; -- or whichever row you want to update

6

7

Data OutputMessagesNotifications

UPDATE 1

Query returned successfully in 55 msec.

Total rows:Query complete 00:00:00.055LF Ln 7, Col 1

DELETING A VALUE FROM THE CALCULATIONS TABLE

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No limit

QueryQuery HistoryScratch Pad

123456

DELETE FROM calculations
WHERE id = 2; -- example record to remove

Data OutputMessagesNotifications

DELETE 1

Query returned successfully in 49 msec.

Total rows:Query complete 00:00:00.049LF Ln 6, Col 1