Working Docker Compose build

```
(venv) existedmaster@Gaming:~/IS601/mod9$ docker compose up --build

pgadmin | /venv/lib/python3.12/site-packages/passlib/pwd.py:16: UserWarning: pkg_resources is deprecated as an API. See https://setuptool
s.pypa.io/en/latest/pkg_resources.html. The pkg_resources package is slated for removal as early as 2025-11-30. Refrain from using this package or pi
n to Setuptools<81.

pgadmin | import pkg_resources

pgadmin | [2025-10-29 15:22:19 +0000] [1] [INFO] Starting gunicorn 23.0.0

pgadmin | [2025-10-29 15:22:19 +0000] [1] [INFO] Listening at: http://[::]:80 (1)

pgadmin | [2025-10-29 15:22:19 +0000] [1] [INFO] Using worker: gthread

pgadmin | [2025-10-29 15:22:19 +0000] [12] [INFO] Booting worker with pid: 123

fastapi_calculator | INFO: 172.21.0.1:52266 - "GET / HTTP/1.1" 200 OK

fastapi_calculator | INFO: 172.21.0.1:52266 - "GET / favicon.ico HTTP/1.1" 404 Not Found

pgadmin | ::ffff:172.21.0.1 - [29/Oct/2025:15:23:11 +0000] "GET / HTTP/1.1" 302 213 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:1

44.0) Gecko/20100101 Firefox/144.0"
```

Table Built

```
Query History
Query
      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,
11
          operand_a FLOAT NOT NULL,
12
          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
      );
                     Notifications
Data Output
           Messages
CREATE TABLE
Query returned successfully in 68 msec.
```

Insert works

```
Query Plistory

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)

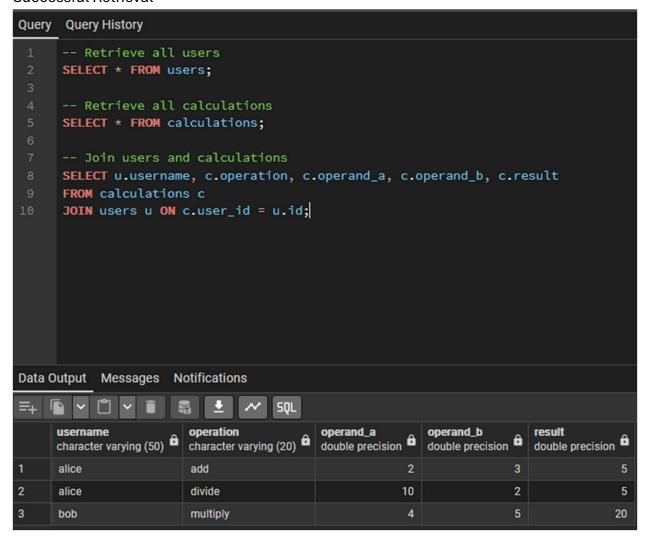
VALUES
('add', 2, 3, 5, 1),
('divide', 10, 2, 5, 1),
('divide', 10, 2, 5, 1),
('multiply', 4, 5, 20, 2);

Data Output Messages Notifications

INSERT 0 3

Query returned successfully in 54 msec.
```

Successful Retrieval



Successful Update

```
Query Plistory

1
2
3
UPDATE calculations
4
SET result = 5
WHERE id = 3; -- or whichever row you want to update
6
7

Data Output Messages Notifications

UPDATE 1

Query returned successfully in 67 msec.
```

Record Deleted

```
Query Query History

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

Data Output Messages Notifications

DELETE 1

Query returned successfully in 45 msec.
```

Proof of Deletion

```
Query Query History
      -- 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
                                     SQL
=+
     username
                        operation
                                            operand_a
                                                            operand_b
                                                                           result
     character varying (50)
                                            double precision
                                                                           double precision
                        character varying (20)
                                                           double precision
                         multiply
                                                         4
     bob
```