



PostgreSQL Connection Setup

Connection Details for Database Access

Below are the required credentials for connecting to the database:

- Host: 134.173.236.12
- Port: 1433
- Username: GenAI_Spring25_Firstname_Lastname
- Initial Password: Genai2025!
- Database_name: GenAI_Spring25_Firstname_Lastname_db

Important:

- Ensure you are connected to the VPN before attempting to access the database. For guidance on setting up the VPN, please refer to [How to Install CGU VPN](#).
- You must **change the initial password** to your own by following **Step 5** below.

1. Connect it from VS Code Extension

- **Step 1:** Open the **Extensions** panel in your **VS Code**.
- **Step 2:** Search for **Database Client**, and **Install it**

The screenshot shows the Visual Studio Code interface with the 'Database Client' extension installed. The left sidebar displays the 'EXTENSIONS: MARKETPLACE' with a search for 'database'. The 'Database Client' extension by Weijan Chen is highlighted. The main panel shows the extension details, including a 'Connect to server' dialog box and a table of results.

Database Client v8.1.4
Weijan Chen database-client.com | 607,772 |
Database Management for MariaDB/SQLite, supports e...

config then click the connect button.

Categories
Programming Languages
Keymaps

Extension Resources
Marketplace
Repository
License
Weijan Chen

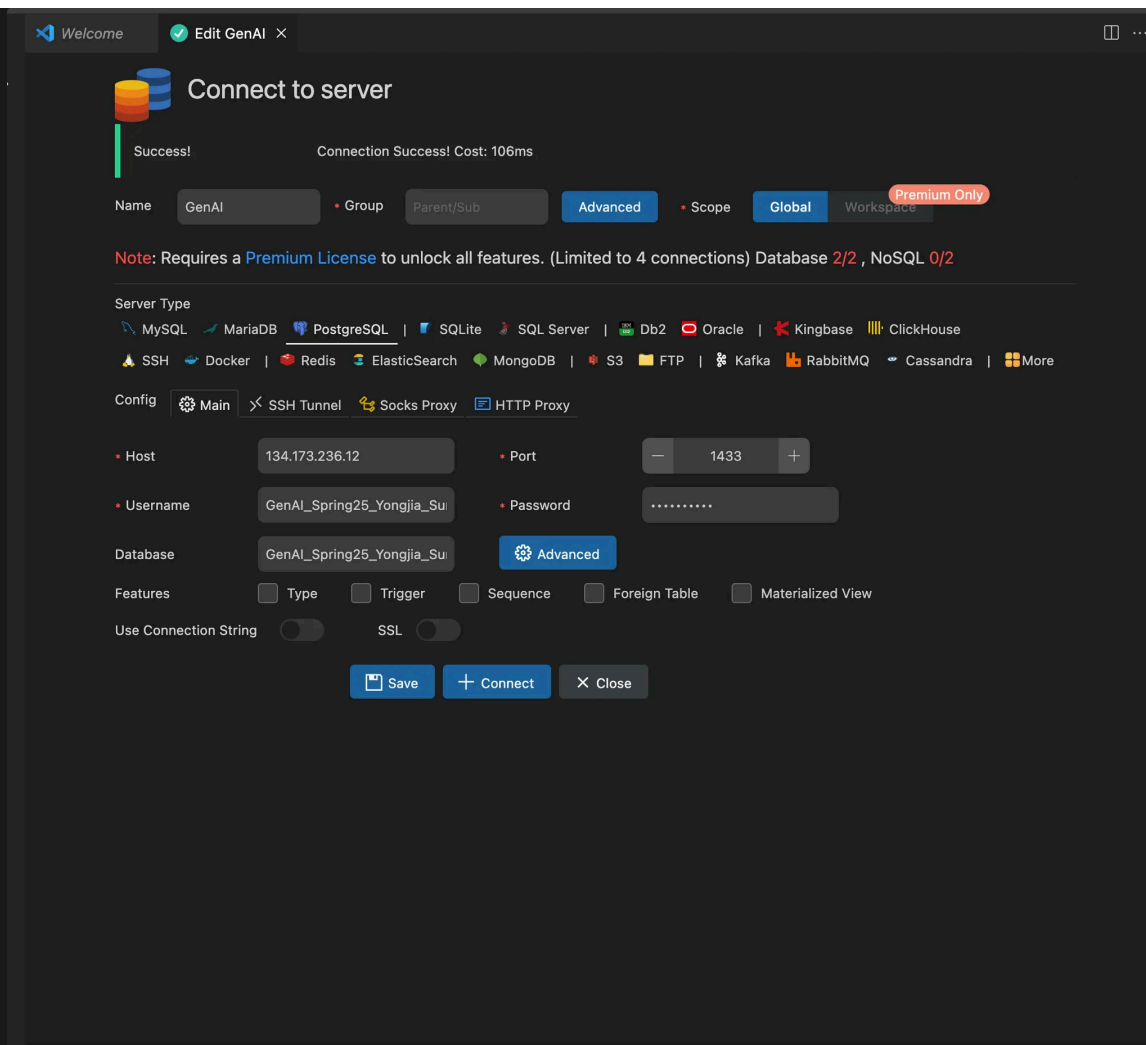
More Info
Published 2/4/2021, 17:04:48
Last released 1/25/2025, 06:02:29
Identifier cweijon.vscod... database-client2

Table

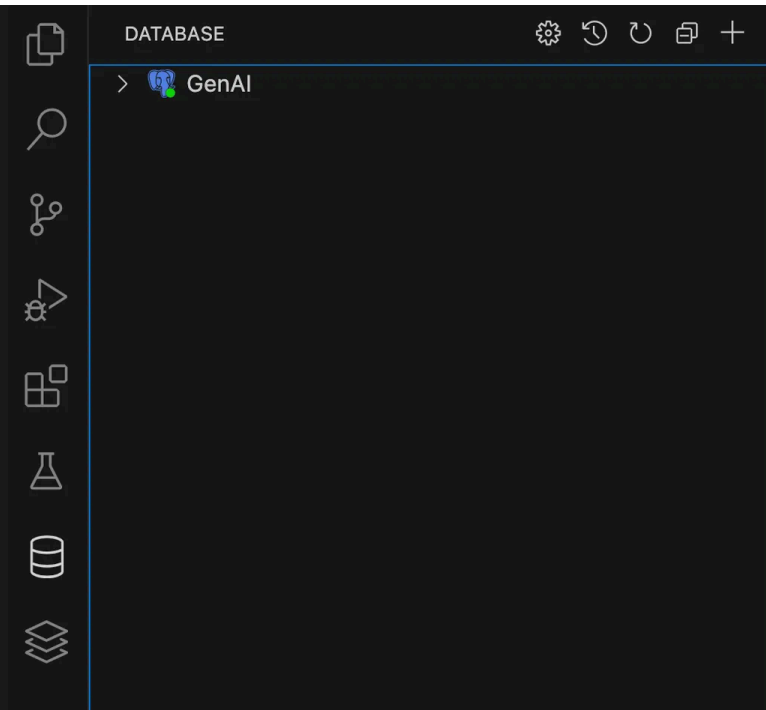
1. Click table to open table view.
2. Click button beside table to open new table view.
3. Then you can do data modification on the table view.

COLLATION_NAME	CHARACTER_SET_NAME
armscii8_general_ci	armscii8
armscii8_bin	armscii8

- **Step 3:** Click the database icon on the left panel and click Connect Connection.
- **Step 4:** Click PostgreSQL, then fill out all the required information (see top of the page): **Name**, **Host**, **Port**, **Username**, **Password**, and **Database**. (For the **Name** you can define any name you like)
- **Step 5:** After entering all the required information, click **Connect**. If everything is correct, you will see a 'Success!' message at the top. Then, you can click **Save** to store the connection.



If the connection is successful, the left side panel will appear as a database connection of the database name as shown below.



- **Step 5: Change Your Initial Password**

1. **Open the Query Editor:**

- Navigate to **your database > Public**.
- Right-click on **Query > Create Query Book**.
- Provide a name for your new query book.

2. Run the Following Code in the Query Book, and click run (Replace `"Your_Username"` and `"New_Password"` with your actual username and desired password.)

Please do not add any special characters in the password, just a combination of letters and numbers.

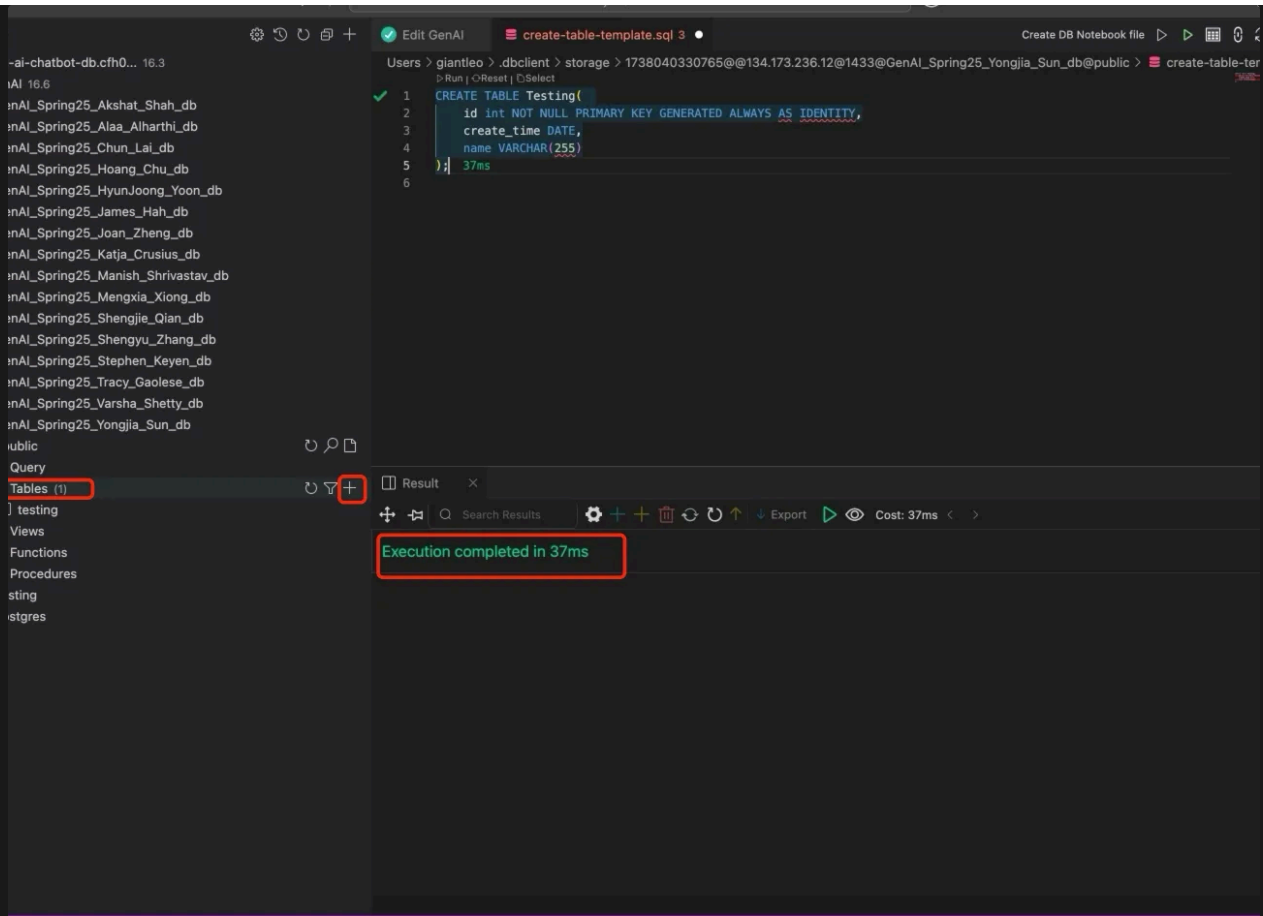
```
ALTER ROLE "Your_Username" WITH PASSWORD 'New_Password';
```

3. After updating your password, a **"Password Authentication Failed"** message may appear in the left-side panel.

To update it:

1. Right-click your database server in the Database Client panel.
2. Select "Edit Connection".
3. Enter your new password in the "Password" field.
4. Click "Connect" to test, then "Save" to update.

- **Step 6: Testing.** Find your database in the list on the left, open it, and create a test table to ensure you have the necessary access.



2. Setting Up PostgreSQL Connection in a `.env` File

- **Step 1: Install Required Dependencies**

Method 1 (Terminal)

- Activate your **Virtual Environment (venv)** in the VS Code terminal. *(Refer to Lab 0 for activation instructions.)*
- Once your venv is activated, install the required packages **separately**:
 - **For Windows:**

```
pip install "psycopg[binary]" pip install SQLAlchemy
```

And then try this to see if you have the psycopg installed - psycopg 3.2.5

```
pip list | findstr psycopg
```

- **For macOS:**

```
pip install "psycopg[binary]" pip install SQLAlchemy
```