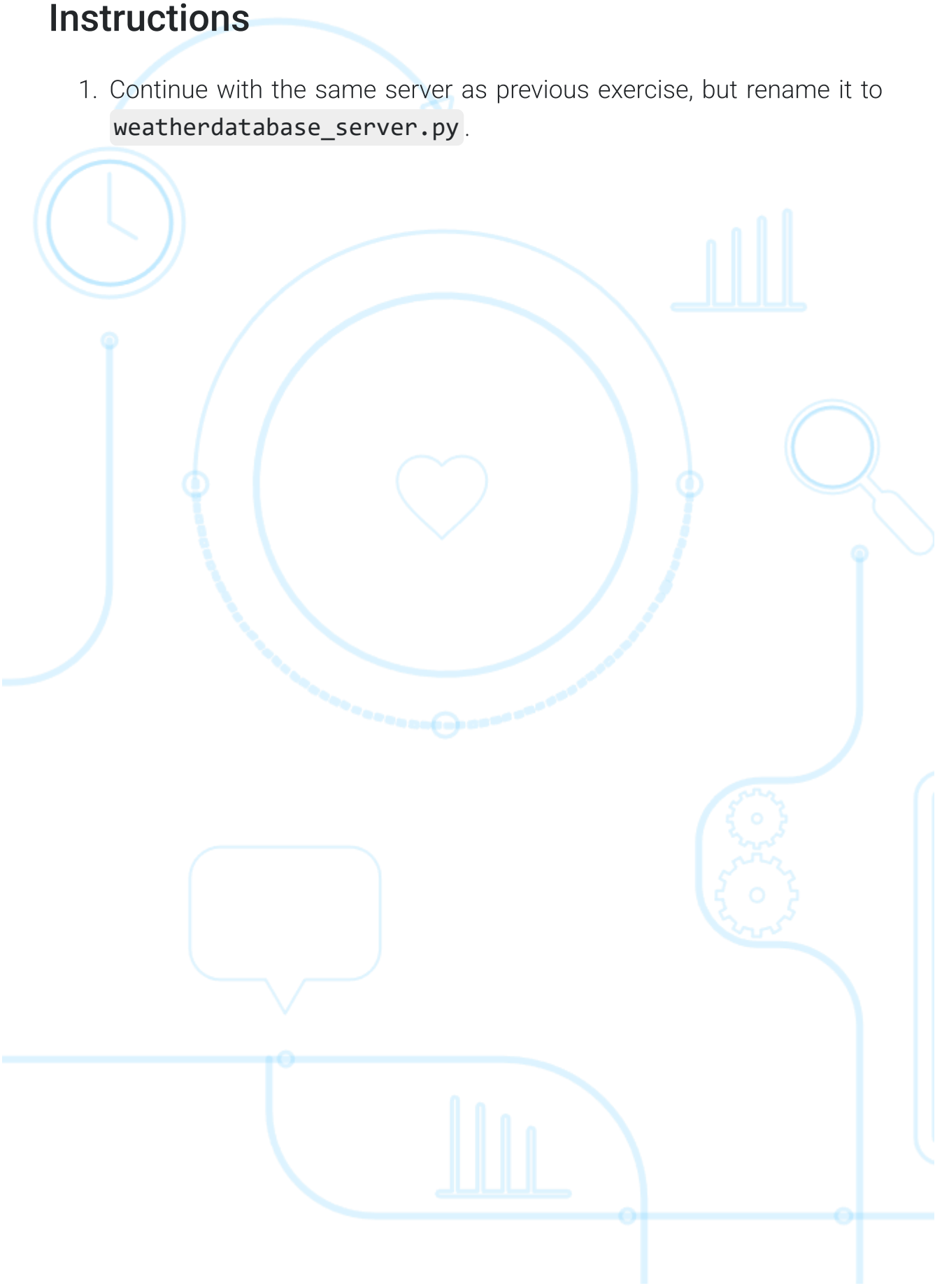
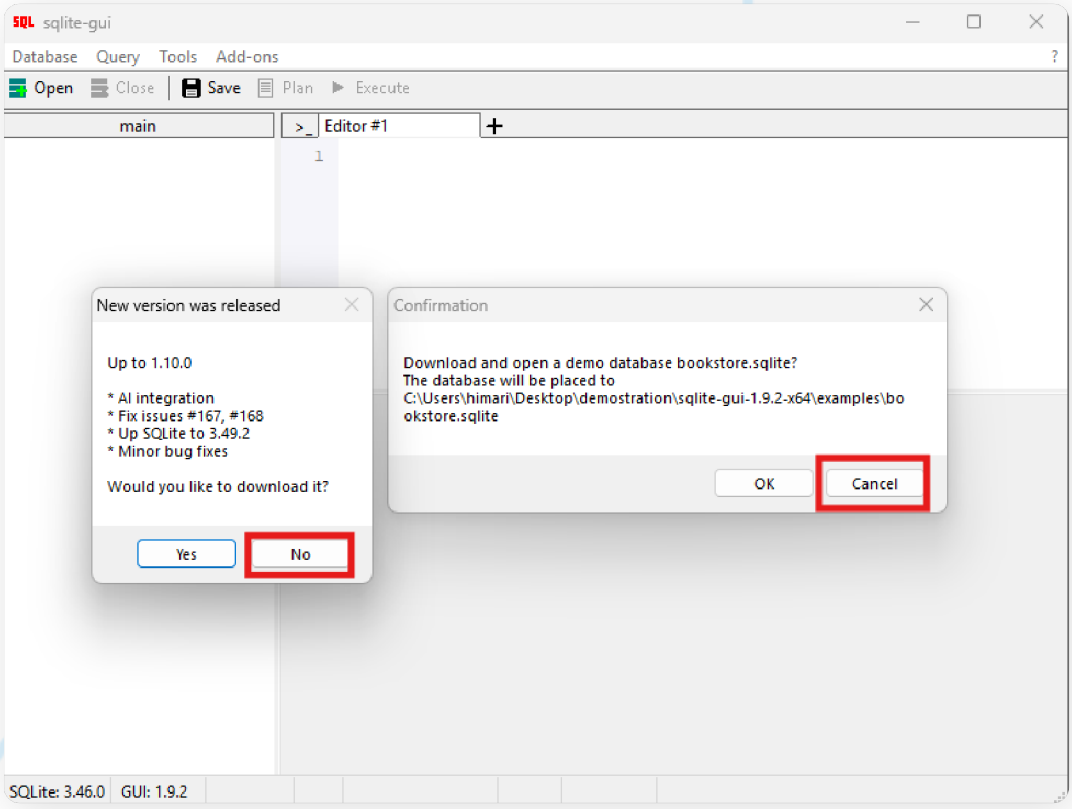
Weather Database

Instructions

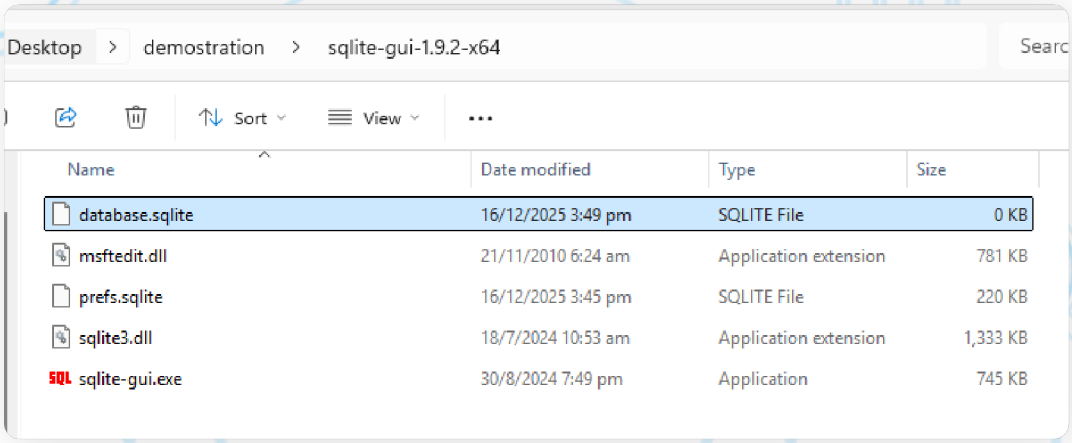
1. Continue with the same server as previous exercise, but rename it to `weatherdatabase_server.py`.



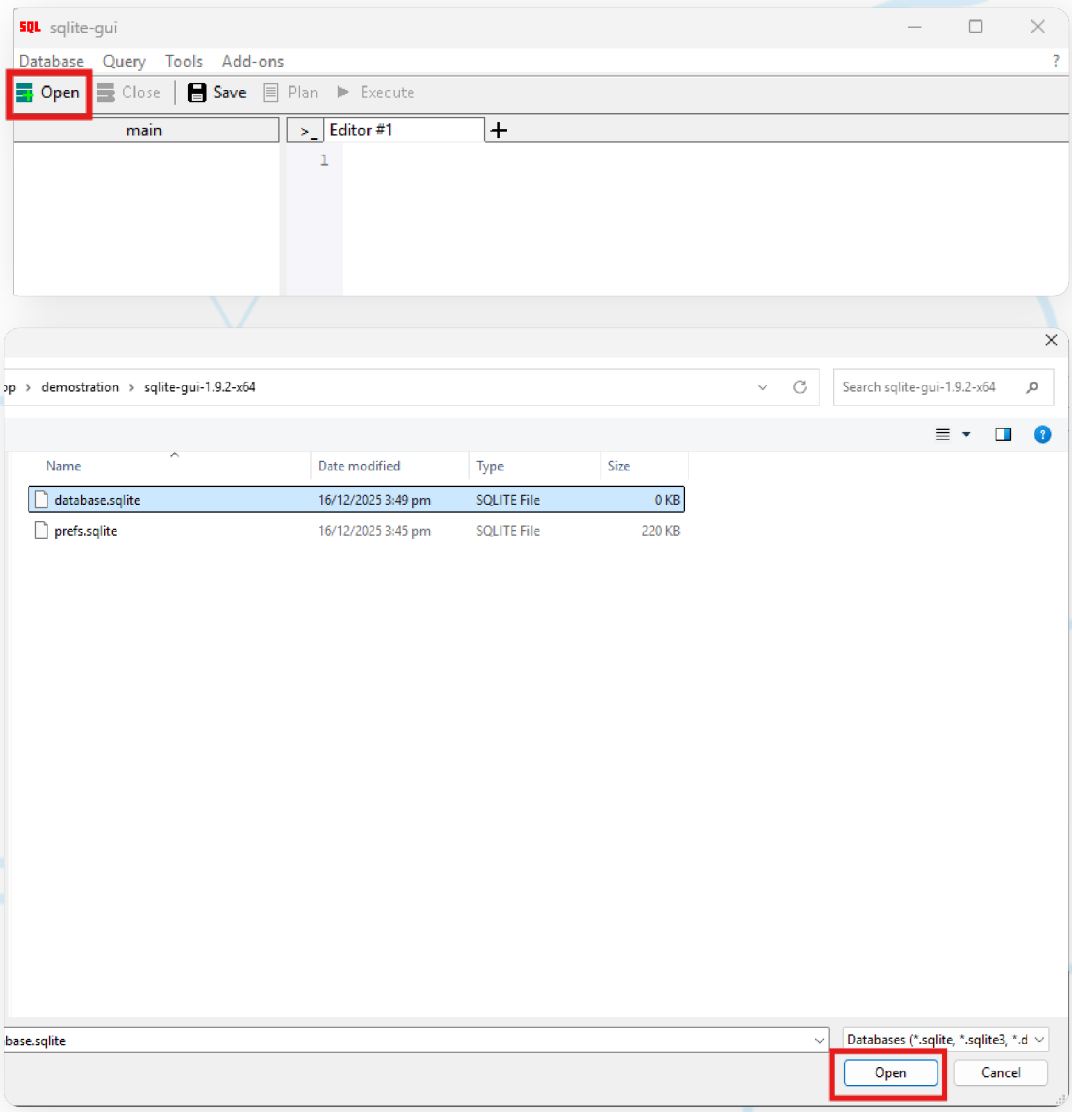
2. Remove the JSON files and replace them with a single SQLite database file `database.sqlite`: 1) Extract attached `sqlite-gui-1.9.2-x64.zip` and run the program 2) Hit 'Cancel' when asked to create a demo database



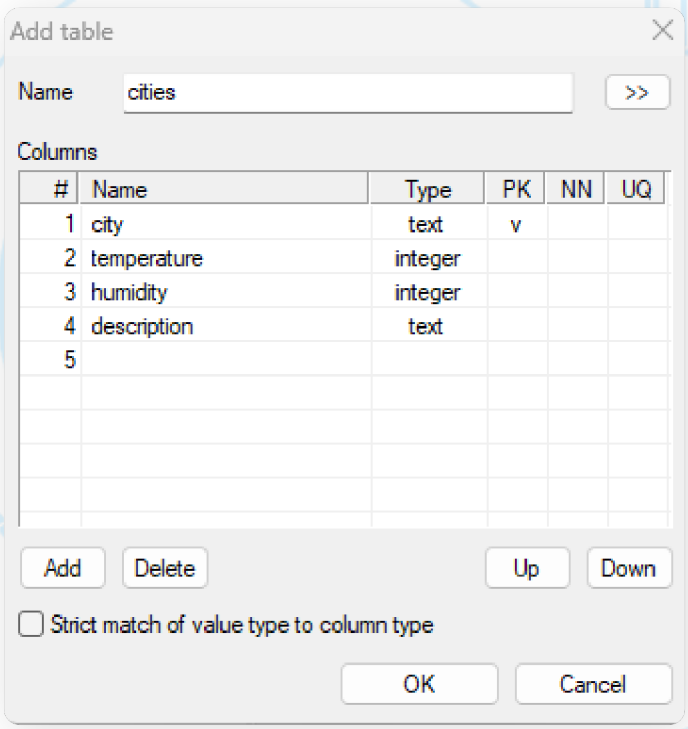
3) Create a new database in file `database.sqlite` in same directory as server



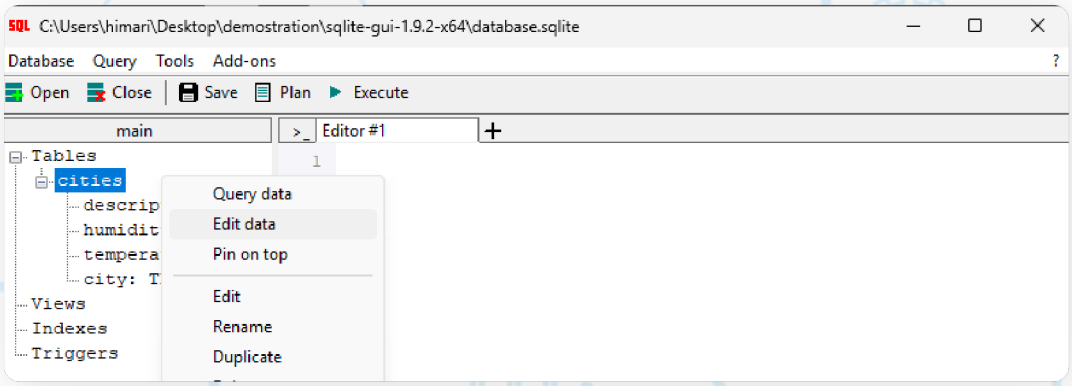
4) Open `database.sqlite` in the program



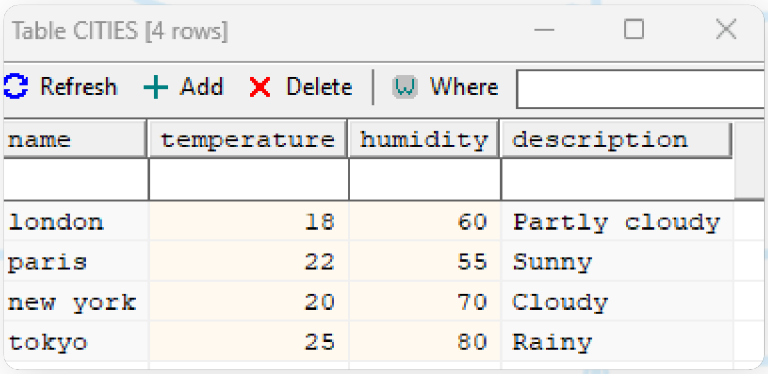
4) Add a new table 'cities', with columns 'city' (text), 'temperature' (integer), 'humidity' (integer), 'description' (text)



5) Right click the new table and click "Edit data"



6) Add a row per city with its corresponding values.



3. Change the server code to query the database when serving a user request. Look into python's sqlite3 package
    - SQLite Python Library Documentation
    - SQLite Tutorial
4. Reminders 1) The network protocol should be case insensitive (sending "london" and "LONDon" should produce the same result). 2) Adding a city in runtime (this time not by creating a new file, but by adding a DB row with the sqlite-gui) should work without restarting the server 3) The network protocol must not change (in other words, the same old client will seamlessly work with the new server)

To submit

Submit ZIP of server directrory which includes `weatherdatabase_server.py` and the database file `database.sqlite`.