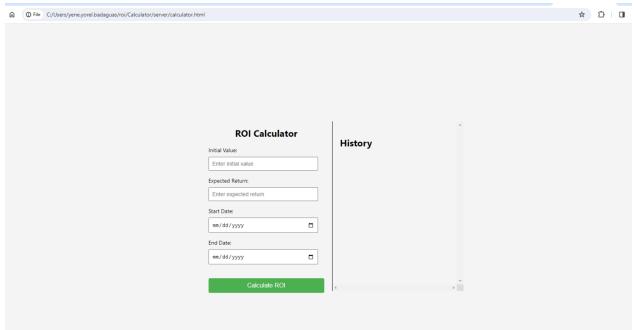
# **DOCUMENTATION**

## **ROI Calculator – Technical Assessment**

### 1. ROI Calculator Form (.html)

The 'Calculator.html' file serves as the main entry point for our web application. It also includes Javascript Functions:

- previousCalculations()
  - Description: This function handles the display of previous calculations on the web page.
  - o Usage: Call this function to populate and display previous calculation results.
- calculateROI()
  - Description: This function calculates the Return on Investment (ROI) based on user input.
  - Usage: Trigger this function when new input is provided, and it will update the ROI results on the page.



#### 2. DB Browser for SQLite

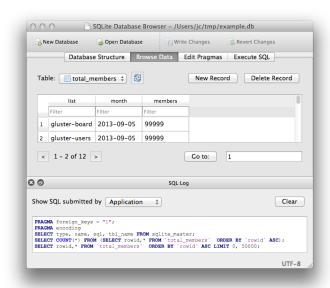
Install DB Browser for SQLite on your machine (<a href="https://sqlitebrowser.org/dl/">https://sqlitebrowser.org/dl/</a>).



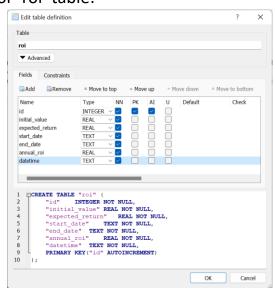
#### **DB** Browser for SQLite

The Official home of the DB Browser for SQLite

#### Screenshot



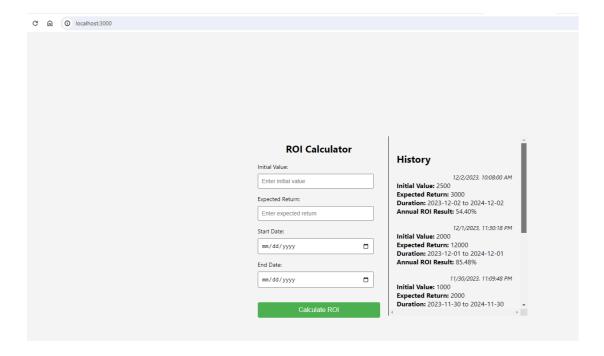
- Create new Database
  - Click on "New Database" to create a new SQLite database file.
  - Save the database file with a desired name, such as 'roi\_data.db'
- Create 'roi' Table
  - o In the "Database Structure" tab, click on "Create a new table..."
  - Set the table name as 'roi'
  - Define the columns for 'roi' table:



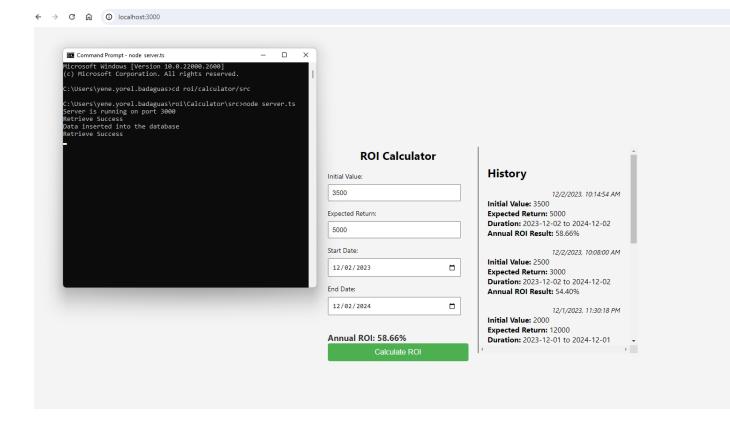
- Click on "Ok" to create the 'roi' table.
- 3. Setup and Run the App Locally
  - Installation
    - Make sure you have Node.js and npm install. Then, install the 'sqlite3' package: 'npm install sqlite3'
    - Navigate to the project directory: 'cd roi/calculator/src
    - o Install dependencies: npm install
  - run this commang to your CMD "node server.ts". "Server is running on port 3000" message will display on your CMD



Open the application in your browser (<a href="http://localhost:3000">http://localhost:3000</a>)

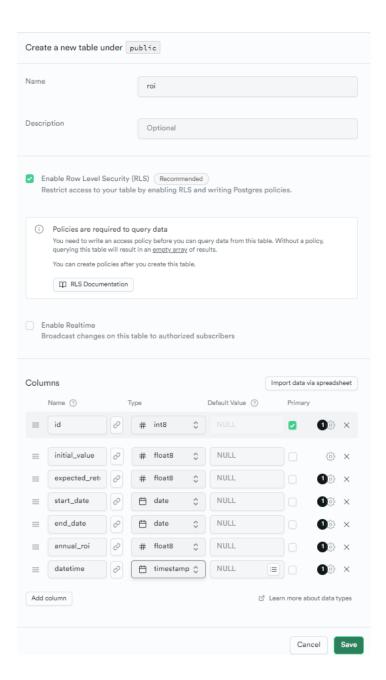


· Test the App



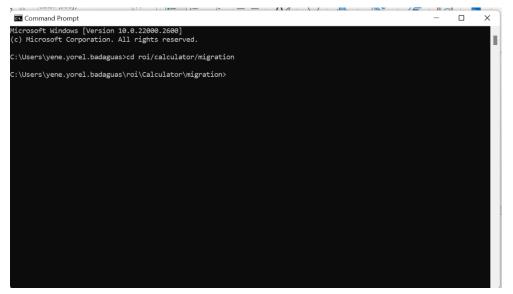
### 4. Supabase

- Supabase Account created (<a href="https://supabase.io/">https://supabase.io/</a>)
- Create a Supabase Project
  - Log in to your Supabase account.
  - o Click on "Create a new project" and follow the prompts.
  - o Once the project is created, note the project URL and API key.
- Create a new Table under 'public'.
  - o Go to Database tab and select 'public' and click the "+ New table" button.

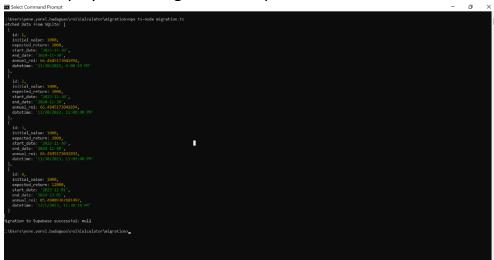


## 5. Migration to Supabase

- Go to the Migration folder and open the 'migration.ts' file and update 'supabaseURL' and 'supabaseKey' based on your supabase project.
- Run the Migration Script
  - o Change the directory to your project directory. Check screen shot below



 Execute the migration script using: 'ts-node migration.ts. All records from sqlite were displayed and migrated to supabase.



- Verify Migration
  - Check the Supabase dashboard to verify that the data has been successfully migrated to the target table.
  - o Run queries on the Supabase SQL editor to inspect the migrated data.

