**Generate SQL queries from schema only - AI-powered**

What does this do?

* **Extracts Database Schema:**
  + Connects to a MySQL database to list all tables and extracts each table’s schema (using SHOW TABLES; and DESCRIBE ...; queries).
  + Adds the table name to the schema details, then converts and saves the complete schema as a local JSON file.
* **Prepares the Schema for Chat:**
  + Loads the saved schema from the local file.
  + Combines the schema with the user’s chat input (received via a chat trigger) to provide context.
* **Generates SQL Queries Using AI:**
  + Feeds the combined schema and user request into an AI agent (powered by OpenAI’s GPT-4o) that’s been instructed to generate SQL queries.
  + Extracts the SQL query from the AI’s response using a regular expression.
* **Executes and Formats the Query:**
  + Checks if a valid SQL query was generated.
  + If a query exists, runs it against the MySQL database to fetch the results.
  + Formats the query results into a neat markdown code snippet and merges it with the AI’s chat answer for the final output.