#### Gine Cloudquery / pg\_gpt Public

Experimental extension that brings OpenAI API to your PostgreSQL to run queries in human language.

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# **Postgres <> ChatGPT**

Experimental PostgreSQL extension that enables the use of OpenAI GPT API inside PostgreSQL, allowing for queries to be written using natural language.

#### Demo

Postgres.Chat	GPT.mp4 👻		
0:00			

(This demo uses data from the Hacker News and Azure CloudQuery plugins)

### How does it work?

The extension sends a subset of the database schema to ChatGPT and asks it to generate a query based on this and the user input.

### Before you start

- Note: This plugins sends schema (without the data) to OpenAI GPT API, so it is not recommended to use it on production databases.
- Note: This is an experimental plugin and not officially supported by CloudQuery.

### Installation

Requires pgx. Install this first:

```
cargo install --locked cargo-pgx
cargo pgx init
```

Now you can install the extension:

```
git clone https://github.com/cloudquery/pg_gpt
cd pg_gpt
export OPENAI_KEY=<YOUR_KEY>
cargo pgx run
# will drop into psql shell
```

```
create extension pg_gpt;
set openai.key = '<YOUR OPENAPI API KEY HERE>'; -- set your key
select gpt('show me all open aws s3 buckets');
-- will output the following query, so you can execute it
-- select * from aws_s3_bucket;
```

# **Available Functions**

- gpt(text) Generates a query based on the user input and the full database schema. This
  works fine for databases with small schemas.
- gpt\_tables(table\_pattern, text) Similar to gpt, but only uses the tables that match the pattern. The pattern is passed to a table\_name LIKE query, so % can be used as wildcard.

# Installing the extension on an existing Postgres instance

First run:

cargo pgx install

This places the extension in the postgres extensions directory. Then, in your postgres instance, run:

```
create extension pg_gpt;
set openai.key = '<YOUR OPENAPI API KEY HERE>';
-- proceed to use the extension
```

### Limitations

• Schema Size - Currently we use gpt-3.5-turbo, which is limited to 4096 tokens. Use gpt\_tables to narrow down the set of tables.

#### Releases

No releases published

#### Packages

No packages published

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#### Languages

• Rust 100.0%