Libraries :

**pip install --upgrade openai**

**Design choices**

Internal handling database queried data as list of dictionaries. Where key is the database column name(optionally the custom name) and the values are respective data for that column.

Constants are defined in at the beginning of the main file in each module. Additionally that constants may be used in the \_\_init\_\_ method inside the class.

In Python, parameters are passed by object reference, which means that if you pass a mutable object like a list or a dictionary to a function and modify it within the function, the changes will be reflected outside the function as well. However, if you try to reassign the parameter to a new object within the function, it won't affect the original object outside the function.: pass by reference.

Src 🡪 Database 🡪 connectdb.py

DatabaseConnection class

Handle the connectivity of the database (MySql) and concrete implementation for executing SQL queries.

Following methods are included:

1. Connect: create the connection to the database. Returns the connection object
2. Disconnect : disconnect if connection is live
3. query : the database query execution when connection is alive for the given query.

Src 🡪 database 🡪 created.py

Following two methods are implemented.

1. Create: create the database
2. Create\_schema: create the database schema.

The schema contains the following tables:

* Account table
* Comment table
* gpt table

complete details can be found in this (set the link) part.

src 🡪 Database 🡪 main.py

Database class :

This is the interface for the other packages to interact with the database. The following methods has been implemented in the database class.

1. Crate: creation of Database and database schema using database.py file
2. Insert\_gpt\_sentimet : Insert the gpt sentiment(a one sentiment) to the gpt table.
3. Insert\_cases: insert the customer case comments to comment and account table.
4. Delete\_all\_gpt\_entries
5. Delete\_all\_cases
6. Get\_gpt\_entries
7. Get\_cases\_by\_date : given start date and the end date return the comments sentiment account names and other fields.