

interface

October 20, 2023

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[ ]: # Load the ipython-sql extension
%load_ext sql

# Connect to your MySQL database using the mysqlclient driver
%sql mysql://root:12345678@localhost
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[ ]: %sql USE Aetheria
```

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[ ]: ##The class chat.py should be runned on terminal to test
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[ ]: import mysql.connector
from datetime import datetime

# MySQL database connection
conn = mysql.connector.connect(
    host='localhost',
    user='root',
    password='12345678',
    database='Aetheria'
)
cursor = conn.cursor()

def display_messages():
    # Retrieve the last 10 messages
    cursor.execute('''
        SELECT SenderID, Content, Timestamp
        FROM Message
        ORDER BY Timestamp DESC
        LIMIT 10
    ''')
    messages = cursor.fetchall()
    for message in messages:
        print(f"{message[0]}: {message[1]} ({message[2]})")

def send_message(content, sender_id, chat_id):
    # Insert the message into the database
    cursor.execute('''
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        INSERT INTO Message (Content, SenderID, Timestamp, ChatID)
        VALUES (%s, %s, %s, %s)
        ''' , (content, sender_id, datetime.now(), chat_id))
    conn.commit()

if __name__ == '__main__':
    while True:
        display_messages()
        user_input = input("Type your message (or 'exit' to quit): ")

        if user_input.lower() == 'exit':
            break

        # Assume a static sender_id and chat_id for simplicity
        sender_id = 2
        chat_id = 1

        send_message(user_input, sender_id, chat_id)

    # Close the connection when done
    conn.close()

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```
[9]: %sql SELECT * FROM Message ;
```

```

* mysql://root:***@localhost
0 rows affected.

```

```
[9]: []
```

```
[10]: %sql SELECT * FROM ChatLog ;
```

```

* mysql://root:***@localhost
0 rows affected.

```

```
[10]: []
```

```
[7]: %sql DELETE FROM Message ;
```

```

* mysql://root:***@localhost
21 rows affected.

```

```
[7]: []
```

```
[8]: %sql DELETE FROM ChatLog ;
```

```

* mysql://root:***@localhost
21 rows affected.

```

[8]: []

[25]: %sql SELECT * FROM Message;

* mysql://root:***@localhost
0 rows affected.

[25]: []