My Experience with ClickHouse

I used ClickHouse for the first time, and it was a new experience. I worked with New York taxi data to perform some common SQL commands like SELECT, INSERT, and UPDATE. I also tried using an external dataset by downloading it from other sites, but importing it into ClickHouse was quite hectic and confusing. Figuring out which commands to use for importing TSV and CSV files took some effort and trial and error.

Despite these challenges, I found ClickHouse to be very fast and reliable. The speed of querying and handling data was impressive, even with large datasets. It was also stable and didn't crash during my work, which made the process smoother. Experimenting with features like table optimization and data compression was interesting, though it required a bit more understanding and research.

Overall, my experience with ClickHouse was positive. I learned a lot, especially about how to manage and optimize large datasets. While there were some difficulties with importing data and getting used to the commands, the system's performance made it worthwhile

**Using Docker**

1. **Run ClickHouse in Docker**:
   * Open a terminal or Command Prompt and run the following command to pull the ClickHouse image and start a container:

docker run -d --name clickhouse-server --ulimit nofile=262144:262144 -p 8123:8123 -p 9000:9000 yandex/clickhouse-server

This command will:

* + Pull the ClickHouse Docker image from Docker Hub.
  + Run ClickHouse in a detached mode (-d), giving the container the name clickhouse-server.
  + Set the ulimit for file descriptors to avoid running out of resources.
  + Map port 8123 (HTTP interface) and 9000 (TCP interface) from the container to your host machine.

1. **Verify ClickHouse is Running**:
   * Open a browser and go to http://localhost:8123/. If ClickHouse is running correctly, you should see a simple ClickHouse HTTP interface.
2. **Connect to ClickHouse Client**:
   * You can use the ClickHouse client from within the Docker container to run queries. Execute the following command in your terminal:

docker exec -it clickhouse-server clickhouse-client

This opens an interactive ClickHouse client session where you can run SQL commands.

