

Simple DBMS

OBJECT-ORIANTED PROJECT

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Description

- This Program provides you with a service to keep data in tables by creating databases you can keep any amount of data.
- You can use the SQL commands to perform operations on your data.

Features

- In this program, you can create or delete databases and tables.
- You can select any column with any condition.
- You can also update your existent data or remove them.
- You can insert any additional data under any condition.

Design overview

JAVA SWING IS USED TO IMPLEMENT THE CONSOLE.

- JFrame: is used to create a window.
- JTextArea: is used to show the inputs and outputs.
- JScrollPane: is used to make the window scroll down and up.

Data structures

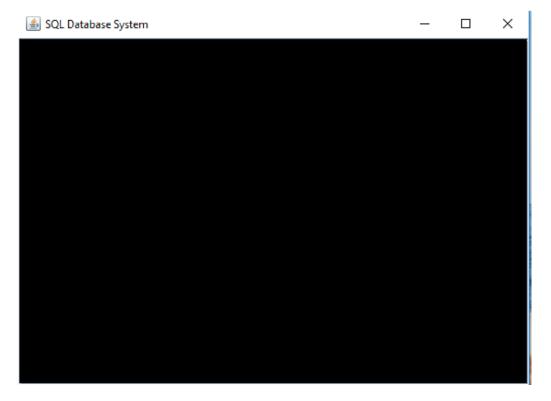
- Object[][]: Array of selected data.
- String: To keep the path and data of type varchar.
- int: Used in iterations and to keep data of type int.
- File: To create a new file or directory.
- Enum: To keep the type of possible commands.

Description of important function

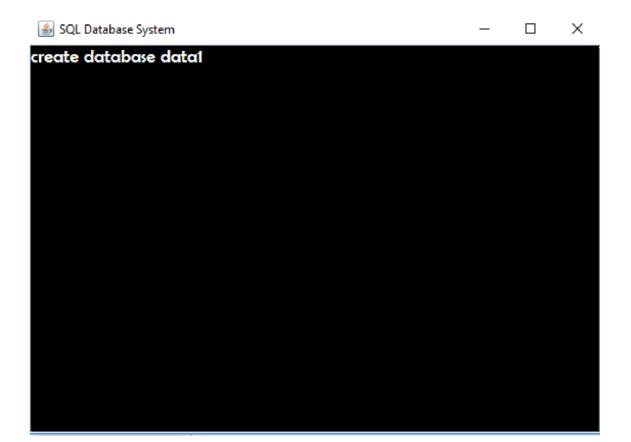
- createDatabase: create a new database.
- executeQuery: used to perform selection queries and return array 2-D of the selected data.
- executeUpdateuery: used to update, insert or remove data.

User manual

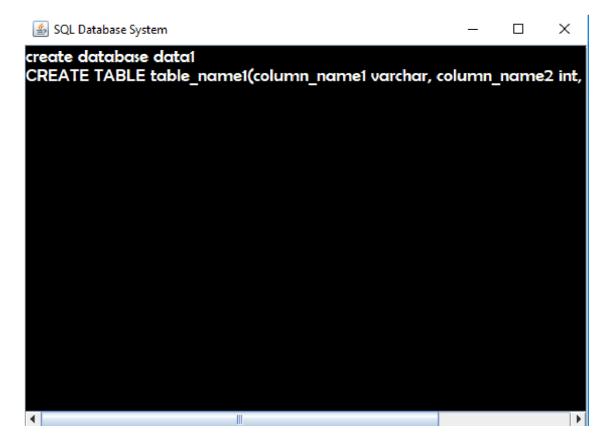
Once the user open the program he will see the shown:



You can start by creating a database with writing the correct query to create.



Then you can create tables in your database.



Then you insert the data in your table.

UML

