

Simon Shrestha
CS 457
Project 1

Design Document

To run the program

1. make
2. ./database
3. Start entering commands

The program organizes multiple databases by making each one a folder through a system call. The program organizes multiple tables by making each one a txt file within the folder that is the database. Each of these txt files will contain the data for the tables. The USE keyword is used to ensure that a specific directory at a time and when it is called a system call is used to go into the folder that is the database. A vector is used to hold the data type for the tables. The table's data type includes a name, attribute, and the database in which it belongs to. There is error checking that is in place for each database and table that ensures that the database exists and is being used and that the table exists within the database and can be used before modifications.