My program organizes multiple databases by creating an individual significant directory for each database that we wanted to implement. It allows us to create or dispose of the database directory if the user does want it for a purpose in each database directory. Another reason is that the user doesn’t want it for some reason in each database directory. For example, “CREATE DATABASE db\_1” and  “CREATE DATABASE db\_2” allows the creation of database directory named db\_1 and db\_2 in separate folder database directory. If the user wants to remove the database directory, we call this parse command line from .sql files, “DROP DATABASE db\_2” which allows you to remove db\_2 database directory so the user would no longer see it. You can use these commands to create and delete the database directory: mkdir and rm -r in the terminal.

My program manages multiple tables by creating files inside of a database directory which has the same function as creating or deleting in their database directory. It can update the table if the user has changed by adding a variable to the tables to tell the user that the table has been modified and works successfully. For example, in order to update or change the table the user has to use the parse word “ALTER” from this project. In this project example the user will be using this parse command line, “ALTER TABLE tbl\_1 ADD a3 float” allows the table to be modified inside of the database directory.

These required functionalities get implemented by making sure that the table or database has already existed before creating or deleting as well as getting to parse .sql files to read the names for databases and tables that the user wants to create. It will only read .sql files by the command that is already in there, so it won’t try other command function that isn’t in the .sql files and will exit after all the commands are done. The functionalities getting implemented contain errors to make sure everything is working for the user to test the .sql file as well as making sure the directory exists. Otherwise, it will print the error statement saying the directory that the user has type is not found at all in the database directory.

**Execution Commands**

In Ubuntu, run the command

**python2 Jared\_Lam\_PA1.py**