The following command needs to be run prior to running this program due to the program dependencies.

```
pip3 install pandas tabulate mysql-connector-python sqlparse
```

To run the program run the following command. Whether you want to access the data through the MYSQL connector or the MYSQL terminal, this program need to be run first for the insertion of the data to occur. All the advanced queries cannot be run directly from the python program, but all other requests can. This includes the select queries and alterations of the tables.

```
python3 main.py
```

The program will then prompt for the username and password that you want to use to access MySQL as shown in the screenshots below.

```
Enter your username: sofa
Enter your password:
```

Once you have entered your username and password the program will create data frames from csv files which will then be inserted into the MYSQL database in the relevant tables.

The program will then enter a menu selection screen where you are able to choose from the following options.

```
Would you like to:
(1) read a sql file
(2) create a query?
(0) exit
```

If you would like to run commands through the SQL terminal, you may enter 0 to leave the selection screen and enter the SQL terminal. This command then needs to be run prior to creating any queries or sourcing any files.

```
USE Olympics_20864846;
```

This selects the database that the python program inserted all the data into.

If you would like to use the advanced queries enter the following command.

```
SOURCE advanced.sql;
```

The following command is used for the select queries.

```
SOURCE select_queries.sql;
```

From the selection 1, you can enter a sql file name which will be read by the program and the necessary data will be displayed.

From the selection 2, you can use as a SQL terminal with the exception of some commands that I did not include in the logic; hence the advanced queries can't be sourced here.

SQL FILES

Setup.sql contains the logic to source all the files that create the tables as shown below. Setup.sql is called in main.py after the dataframes are created to prepare for the insertion of data.

```
DROP DATABASE IF EXISTS olympics_20864846;
CREATE DATABASE olympics_20864846;
USE olympics_20864846;

-- creating all the tables

SOURCE createcou.sql;
SOURCE createdis.sql;
SOURCE createath.sql;
SOURCE createtea.sql;
SOURCE createven.sql;
SOURCE createeve.sql;
SOURCE createpao.sql;
SOURCE createres.sql;
SOURCE createloc.sql;
SOURCE createpar.sql;
```