

Instructions for Running the MMA Term Project Code

Step 1 - Install Necessary Software:

1. Ensure you have the following software installed on your system:
 - MySQLWorkbench
 - Python 3
 - An Integrated Development Environment (IDE) like VSCode or PyCharm
 - A terminal or command line interface (bash for macOS/Linux)

Step 2 - Set Up the MySQL Database:

1. Open MySQLWorkbench and log in to your MySQL instance.
2. Run the provided SQL file (`MMA_Database_Queries.sql`) to create and populate the necessary tables for the database.

Step 3 - Generate the CSV Files:

1. Use the SQL queries in `MMA_Database_Queries.sql` to export data from the MySQL database.
2. Save each result as a CSV file in the "Term Project" subdirectory of your ICS 311 folder.
3. Ensure the CSV file names match exactly as follows:
 - `TotalWinsByCountry.csv`
 - `FightersCoachesGymsandSponsors.csv`
 - `CoachesSpecialties.csv`
 - `ContractsExpiringSoon.csv`
 - `ContractsHighestToLowest.csv`
 - `CreateAView.csv`
 - `GymsOfFighters.csv`
 - `NoInjuries.csv`
 - `PaymentsPerWeightClass.csv`
 - `Records155to200.csv`
 - `SponsoredFighters.csv`

Step 4 - Navigate to the Subdirectory:

1. Open your terminal.
2. Navigate to the directory where your Python script and CSV files are located:

Copy code (bash):

```
cd /path/to/ICS\ 311/Term\ Project
```

Step 5 - Install Required Python Modules:

1. Run the following commands to install necessary Python modules:

Copy code (bash):

```
pip install pandas
```

```
pip install mysql-connector-python
```

2. The datetime module is built into Python and does not require installation.

Step 6 - Run the Python Script:

1. Execute the Python script in the terminal using the following command:

Copy code (bash):

```
python3 run_mma_queries.py
```

Step 7 - Follow the On-Screen Prompts:

1. Press Enter to see each report in sequence.
2. For Report 3, follow the prompts to choose a specific CSV file to view.