**USER**

**GUIDE**

Olympic Database

# Database Systems Semester 2

# Purpose

**Description:**

**SQL queries and design to create a database of the olympic games, including sample data.**

**Contents:**

**olympics.py**

- Python script to create a new database and load the

**csv\_to\_sql.py**

- Python script made by me to convert csv files into sql query files

**To run:**

*Run the program using python interpreter.*

*:~/$ python3 olympics.py*

**MANUAL MODE**

*//connect to mysql*

*:~/$ mysql -u me -p*

*//then enter password*

*:~/$ <enter password>*

*// source file*

*:~/$ SOURCE loadAll.sql*

# Relational Schema

Country(countryID*, ranking, gold, silver, bronze)*

Athlete(athleteID, surname, givenNames , *coachID, disciplineID, genderOrType, countryID*)

Coach(coachID, surname, givenNames, *disciplineID, countryID*)

Discipline(disciplineID, maleCount, femaleCount)

# Data types

TABLE **Country**

countryID VARCHAR(60) **PK**

**#***used as main identifier also serves as name of nation. Must be unique.*

ranking SMALLINT

**#***used as main identifier also serves as name of nation. Must be unique.*

gold SMALLINT

silver SMALLINT

bronze SMALLINT

TABLE **Discipline**

disciplineID VARCHAR(60) **NOT NULL**

***#****used as main identifier also serves as name of discipline. Must be unique.*

maleCount SMALLINT,

***#****data is numeric, never negative and never goes above 255.*

femaleCount SMALLINT,

***#****data is numeric, never negative and never goes above 255.*

TABLE **Athlete**

athleteID CHAR(6) **PK**

***#****used as main identifier generated for DB. Must be unique.*

surname VARCHAR(30) **NOT NULL**

***#****derived from dataset. Must not be null.*

givenNames VARCHAR(150)

***#****derived from dataset. Can be null as not every athlete will have 2 names.*

discipline VARCHAR(60) **FK**

***#Foreign key****. Must not be null.*

country VARCHAR(60) **FK**

***#Foreign key****. Must not be null.*

TABLE **Coach**

coachID CHAR(6) **PK**

***#****used as main identifier generated for DB. Must be unique.*

surname VARCHAR(30) **NOT NULL**

***#****derived from dataset. Must not be null.*

givenNames VARCHAR(150)

***#****derived from dataset. Can be null as not every athlete will have 2 names.*

discipline VARCHAR(60) **FK**

***#Foreign key****. Must not be null.*

country VARCHAR(60) **FK**

***#Foreign key****. Must not be null.*