**Project Report**

Olympic Database

# Database Systems Semester 2

# Purpose

This database contains information on Athletes, Coaches, Events and Medals at the Tokyo Olympic games.

Description

Entitities

paste table here

# Relationships:

**represents**

Country - (1 : N) – Athlete

Athletes or coaches can only belong to one national team

**part of**

Country - (1 : N) – Coach

Athletes or coaches can only belong to one national team

**competes**

Athlete - (1 : N) – Discipline

Athletes can only perform at very highest level in single discipline (a discipline may be an umbrella of events such as “Athletics”).

**specialises on**

Coach - (1 : N) – Discipline

Coaches can only specialise at very highest level in single discipline (a discipline may be an umbrella of events such as “Athletics”).

**trains**

Coach - (1 : N) – Athlete

A single coach may train multiple athletes, athletes have one coach assigned to them.

**wins**

Athlete - (N : N) – Country

A single athlete can win multiple medals for their country, a country may have multiple medallists.

# 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

Olympics

(

olympicsID | CHAR(6) PRIMARY KEY

yearHeld | YEAR

city | VARCHAR(50)

season | CHAR(2) | ‘s for Summer ‘w’ for winter

isPara | BOOLEAN | notes: true for Paralympics and false for not

*countryID* | VARCHAR(60) FOREIGN KEY

)

Country

(

countryID | VARCHAR(60)

playerCount | INT

*ranking* | INT

*olympicsID* | CHAR(6) FOREIGN KEY

)

Athlete

(

athleteID | CHAR(6) PRIMARY KEY

name | VARCHAR(150) NOT NULL

gender | CHAR(2) NOT NULL | ‘m’ for Male ‘f’ for Female

birthDate DATE

medalCount | INT

*coachID* | CHAR(6) FOREIGN KEY

*countryID* | VARCHAR(60) FOREIGN KEY

)

Coach

(

coachID | CHAR(10) PRIMARY KEY

name VARCHAR(150) NOT NULL

)

Event

(

eventID | CHAR(10) PRIMARY KEY

date | DATE

eventDate| TIME

eventTime| CHAR(2) NOT NULL | ‘m’ for Male ‘f’ for Female

title | VARCHAR(150) NOT NULL

)

Medal

(

medalID | CHAR(10) PRIMARY KEY

denom | CHAR(2) NOT NULL | ‘g’ for Gold ‘s’ for Silver ‘b’ for Bronze

*eventID* | CHAR(10) FOREIGN KEY

*countryID* | VARCHAR(60) FOREIGN KEY

)

–MedalTable(rank, total, gold, silver, bronze, *countryName*)