List of Queries

Prepared for: INFS7901 Assignment 3

Prepared by: Jialuo Ding, Letian Yan

Date: 25 May 2018

## - Update an athlete’s information

UPDATE Athlete SET FirstName = "Matt", LastName = "Graham", Gender = "M", Age = 24, PhoneNumber = 428387311 WHERE AthleteID = 10101;

## - Delete the information of a certain athlete

DELETE FROM Athlete WHERE AthleteID = 10102;

## - Get all events’ information (EventName, VenueCode, VenueName and Date) of a certain athlete

SELECT Event.EventName, Venue.VenueCode, Venue.VenueName, HoldIn.Date FROM ((Venue LEFT JOIN HoldIn ON Venue.VenueCode = HoldIn.VenueCode ) LEFT JOIN Event ON HoldIn.EventCode = Event.EventCode) LEFT JOIN Register ON Event.EventCode = Register.EventCode WHERE AthleteID = 10101;

## - Get results of all events an athlete has participated in

SELECT Event.EventName, Register.Place, Register.Score,Register.Time FROM Register,Event WHERE Register.AthleteID = 10101 AND (Score IS NOT NULL OR Time IS NOT NULL) AND Register.EventCode = Event.EventCode;

## - Find all staffs’ information of the team an athlete belongs to

SELECT \* FROM Team INNER JOIN WorksForStaff WHERE Team.TeamCode = WorksForStaff.TeamCode AND Team.TeamCode = (SELECT TeamCode FROM AthleteInTeam WHERE AthleteID = 10101);

## - Update a staff’s personal information

UPDATE WorksForStaff SET FirstName = "David", LastName = "Anderson", Gender = "M", Age = 25, PhoneNumber = 420604515 WHERE StaffID = 16 AND TeamCode = 313;

## - Find all athletes in a specific team who take part in at least one score event

SELECT \* FROM Athlete WHERE AthleteID = ANY (SELECT AthleteID FROM Register WHERE AthleteID IN (SELECT AthleteID From AthleteInTeam WHERE TeamCode = 310) AND EventCode = ANY (SELECT DISTINCT EventCode FROM Register WHERE Time is NULL));

## - Count numbers of male athletes and female athletes in a specific team

SELECT Gender, COUNT(\*) FROM Athlete WHERE AthleteID IN (SELECT AthleteID From AthleteInTeam WHERE TeamCode = 310) GROUP BY Gender

## - Find the average age of athletes in a specific team

SELECT AVG(Age) FROM Athlete WHERE AthleteID IN (SELECT AthleteID From AthleteInTeam WHERE TeamCode = 310)

## - Find the average age of each team

SELECT AVG(A.Age),T.TeamCode FROM Athlete A, AthleteInTeam T WHERE A.AthleteID=T.AthleteID GROUP BY T.TeamCode ORDER BY AVG(A.Age)

## - Update a Coordinator’s personal information

UPDATE Coordinator SET FirstName = "Harry", LastName = "Harrison", Gender = "M", Age = 33, PhoneNumber = 411034190 WHERE CoordinatorID = 510

## - Check if a venue has been used for an event at a particular time

SELECT \* From Temp WHERE VenueName = "Second Stadium" AND Date = "2018-05-22";

## - Arrange an event by giving the event a holding date and venue

INSERT INTO HoldIn VALUES((SELECT EventCode FROM Event WHERE EventName = "Men's Aerials"), (SELECT VenueCode From Venue WHERE VenueName = "Second Stadium"),"2018-05-22")

## - Update a Referee’s personal information

UPDATE Referee SET FirstName = "Gordon", LastName = "Ford", Gender = "M", Age = 37, PhoneNumber = 410637142 WHERE RefereeID = 2310

## - Get information of events a referee works on, including date and venue

SELECT EventCode, EventName, VenueName, Date FROM Temp WHERE EventCode IN (SELECT EventCode FROM Preside WHERE RefereeID = 2310)

## - Get information of athletes who take part in an event

SELECT \* FROM Athlete WHERE AthleteID IN (SELECT AthleteID FROM Register WHERE EventCode = 3021)

## - update athletes’ place, medal and score(or time) who take part in the event they work on

INSERT INTO Register VALUES(10105,3002,1,80.28,NULL);

INSERT INTO Register VALUES(10302,3002,2,80.03,NULL);

## - update world record of events they work on if athletes break the world record

UPDATE Event SET WorldRecord = 80.28 WHERE EventCode = 3002;

## - Find the result of a certain event

SELECT DISTINCT Athlete.FirstName, Athlete.LastName, Register.AthleteID,Register.Place FROM Athlete,Register WHERE Athlete.AthleteID = Register.AthleteID AND Register.AthleteID IN (SELECT AthleteID FROM Register WHERE EventCode = 3021)

## - Find the athletes’ name who won a certain place

SELECT FirstName, LastName FROM Athlete WHERE AthleteID IN (SELECT AthleteID FROM Register WHERE Place = 1 GROUP BY EventCode)