

ISYS2014 – Database System

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Laboratory: Wednesday 4-6pm

Final Assignment – Report Paper

Introduction

The following report consider the scenario of FIFA Women World Cup. Every part of the work has been described with evidence in various formats. The report includes explanations for designing process as well as coding implementation with useful queries to retrieve data.

Part 1

a. ER Diagram

Entity sets	Keys	Other attributes
Referee	refNo	refRole, age
Person	nationality, firstName, lastName	DOB
Player	playerID	value, position, number, age
Coach	coachID	age, coachRole
MatchPlay	matchID	date, time, temperature, attendance, A_goal, B_goal
Stadium	stadName	city, state, capacity
Card	cardType	minute
Team	teamCode	ranking, teamValue
play for	NULL	goals, assists, appearances

Relationship sets	Between entity Sets	Attributes of relationship	Note
P-Player	Person - Player		a person to be a player, a coach, or a referee
P-Coach	Person – Coach		
P-Ref	Person – Referee		
Play for	Player - Team	goals, assists, appearances	A player to play for a national team
manage	Coach - Team		
play in	Team – Match		Teams to play in a match
refereed	Referee - Match		
Take place	Match - Stadium		A match to be played in a stadium
Give	Referee - Card		Cards given by a referee
In	Card - Match		Cards given in a match
given	Card - Player		A player to be booked

given	Card - Coach		A coach to be booked
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Relationship sets	Cardinality constraints	Participation constraints	Note
P-Player	1:1	Person – Partial/ Player – Total A person may not be a player, a player must be a person	A person can only be a player, coach or referee
P-Coach	1:1	Person – Partial/ Coach – Total A person may not be a coach, a coach must be a person	
P-Ref	1:1	Person – Partial/ Referee – Total A person may not be a coach, a coach must be a person	
Play for	1:N	Player – Total/Team – Total A player must play for a team, a team must have players	A player can only play for a team, a team can have many player
Manage	1:N	Coach – Total/Team – Total A team must have a coach, a coach must manage a team	A coach can only manage a team, a team can have many coaches
play in	M:N	Team – Total/Match – Total A team must play matches, matches must be played by teams	2 teams can play in a match, a team can play many matches
Refereed	M:N	Referee – Partial/ Match – Total A match must have referee, a referee may not take part in a match	Many referees can take part in a match, a referee can take part in many matches
Take place	1:N	Match – Total/Stadium – Partial A match must be play in a stadium, a stadium may not have any match	A stadium can host many matches, a match can only be played in a stadium

Give	1:N	Referee – Partial/Card – Partial A card may not be given by a referee, a referee may not give any card	A referee can give many cards, a card can be given by only a referee
In	M:N	Card – Partial/Match – Partial A match may not have any card, a card may not be given in any match	Many cards can be given in a match, a card can be given in many matches
Given	M:N	Card – Total/Player – Partial A player may not have any card, a card, if given, must be given for at least a player	Many players can be booked with the same card,
Given	M:N	Card – Total/ Coach – Partial A coach may not have any card, a card, if given, must be given for at least a coach	Many coaches can be booked with the same card

b. Relational schema

- **Person**(firstName, lastName, nationality, DOB)
- **Player**(playerID, teamID, firstName, lastName, nationality, value, number, age, position)
 - FK teamID REF Team(teamID)
 - FK firstName REF Person(firstName)
 - FK lastName REF Person(lastName)
 - FK nationality REF Person(nationality)
- **Coach**(coachID, teamID, firstName, lastName, nationality, coachRole, age)
 - FK teamID REF Team(teamID)
 - FK firstName REF Person(firstName)
 - FK lastName REF Person(lastName)
 - FK nationality REF Person(nationality)
- **Referee**(refNo, refRole, firstName, lastName, nationality, age)
 - FK firstName REF Person(firstName)

FK lastName **REF** **Person**(lastName)

FK nationality **REF** **Person**(nationality)

- **playfor**(playerID, teamID, goals, assists, appearances)

FK playerID **REF** **Player**(playerID)

FK teamID **REF** **Team**(teamID)

- **Card**(cardType, minute, refNo, matchID)

FK refNo **REF** **Referee**(refNo)

FK matchID **REF** **MatchPlay**(matchID)

- **MatchPlay**(matchID, stadName, round, date, temperature, attendance, A_goal, B_goal, A_teamID, B_teamID)

FK stadName **REF** **Stadium**(stadName)

FK A_teamID **REF** **Team**(teamID)

FK B_teamID **REF** **Team**(teamID)

- **Stadium**(stadName, city, state, capacity)
- **Team**(teamName, teamID, ranking)
- **Given**(cardType, coachID, playerID)

FK coachID **REF** **Coach**(coachID)

FK playerID **REF** **Player**(playerID)

- **Refereed**(refNo, matchID)

FK refNo **REF** **Referee**(refNo)

FK matchID **REF** **Match**(matchID)

c. Data description

Person

Attributes	Type	Size	PK	Null	Description	Note
firstName	VARCHAR	15	Y	N	First name	
lastName	VARCHAR	15	Y	Y	Last name	
nationality	VARCHAR	10	Y	N	Nationality	
DOB	DATE			N	Date of Birth	

Player

Attributes	Type	Size	PK	Null	Description	Note
value	INT	6		Y	Player's market value	Values are in USD million
number	INT	2	Y	N	Player's shirt number	
playerID	VARCHAR	10	Y	N	FIFA ID for each player	
position	VARCHAR	2		N	Player's position	A player can play in multiple positions
age	INT	2		N	Player's age	Calculated with DOB

Coach

Attributes	Type	Size	PK	Null	Description	Note
coachID	VARCHAR	10	Y	N	FIFA ID for coaches	
coachRole	VARCHAR	20		Y	Coach role	
age	INT	2		N	Coach's age	Calculated with DOB

Referee

Attributes	Type	Size	PK	Null	Description	Note
refNo	VARCHAR	10	Y	N	FIFA codes for referees	Values are in USD million
age	INT	2		N		Calculated with DOB
refRole	CHAR	2		N	Referee role	Such as Referee, Assistant Referee...

Team

Attributes	Type	Size	PK	Null	Description	Note
teamName	VARCHAR	20	Y	N	Country name	
teamID	CHAR	3		N	FIFA code for a nation	
ranking	INT	3		Y	FIFA World Ranking	

MatchPlay

Attributes	Type	Size	PK	Null	Description	Note
matchID	VARCHAR	6	Y	N	Unique identifier for each match	
date	DATE			N		Sydney date
attendance	INT	6		N	Total attendance in a match	Must be =< Stadium capacity
A_goal	INT	1		N	Goal for team A	
B_goal	INT	1		N	Goal for team B	
round	VARCHAR	10		N	Round	
A_teamID	VARCHAR	6		N	Team 1	
B_teamID	VARCHAR	6		N	Team 2	

Stadium

Attributes	Type	Size	PK	Null	Description	Note
stadName	VARCHAR	40	Y	N	Stadium name	
city	VARCHAR	30		N		
state	CHAR	2		N		
capacity	INT	6		Y	Maximum capacity	

Card

Attributes	Type	Size	PK	Null	Description	Note
cardType	CHAR	1		N	Type of Card	Red or Yellow
minute	INT	2		N	When the card to be given in a match	

play for

Attributes	Type	Size	PK	Null	Description	Note
goals	INT	2		Y	Goals for team	International record only
appearances	INT	3		Y	Matches played for team	International record only

Business Rules

BS1: position attributes for Players are displayed as RW, CB, CM, GK...

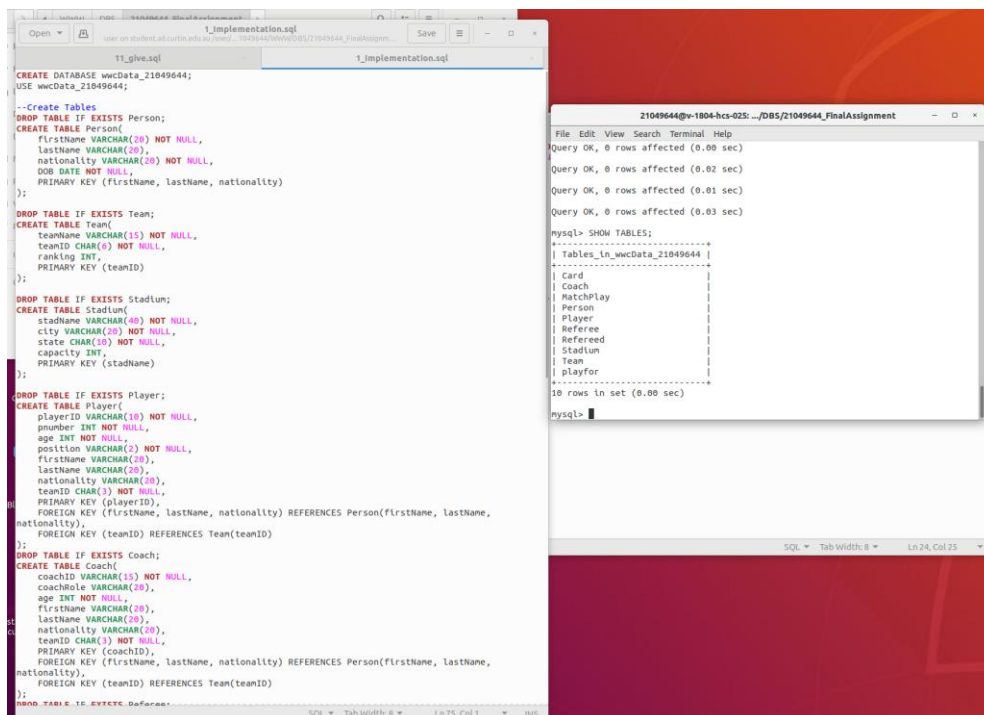
BS2: Number of teams cannot exceed 32.

BS4: Players' records for clubs are not eligible (Only for national teams).

Part 2

a. Implementation

Tables are created with SQL script files, data types based on information above. There are 11 SQL script files. Every script is numbered with proper names matching tables accordingly. SQL script number 1 is the implementation of tables. Scripts number 2-11 are data and values for each table created by script number 1. A large portion of data in this assignment is collected via Wikipedia and FIFA official website. The suggested source from Blackboard is also used. Some data for tables such as Card, Refereed is fabricated as it is not easy to obtain the one required. However, overall, these tables don't have significant impact on the database.



The screenshot shows a SQL script editor on the left and a terminal window on the right. The script editor displays the following SQL code:

```
--Create Tables
DROP TABLE IF EXISTS Person;
CREATE TABLE Person(
  firstName VARCHAR(20) NOT NULL,
  lastName VARCHAR(20),
  nationality VARCHAR(20) NOT NULL,
  DOB DATE NOT NULL,
  PRIMARY KEY (firstName, lastName, nationality)
);

DROP TABLE IF EXISTS Team;
CREATE TABLE Team(
  teamName VARCHAR(15) NOT NULL,
  teamID CHAR(6) NOT NULL,
  ranking INT,
  PRIMARY KEY (teamID)
);

DROP TABLE IF EXISTS Stadium;
CREATE TABLE Stadium(
  stadiumName VARCHAR(40) NOT NULL,
  city VARCHAR(20) NOT NULL,
  state CHAR(10) NOT NULL,
  capacity INT,
  PRIMARY KEY (stadiumName)
);

DROP TABLE IF EXISTS Player;
CREATE TABLE Player(
  playerId VARCHAR(10) NOT NULL,
  pinnumber INT NOT NULL,
  age INT NOT NULL,
  position VARCHAR(20) NOT NULL,
  firstName VARCHAR(20),
  lastName VARCHAR(20),
  nationality VARCHAR(20),
  teamID CHAR(3) NOT NULL,
  PRIMARY KEY (playerID),
  FOREIGN KEY (firstName, lastName, nationality) REFERENCES Person(firstName, lastName, nationality),
  FOREIGN KEY (teamID) REFERENCES Team(teamID)
);

DROP TABLE IF EXISTS Coach;
CREATE TABLE Coach(
  coachID VARCHAR(15) NOT NULL,
  coachRole VARCHAR(20),
  age INT NOT NULL,
  firstName VARCHAR(20),
  lastName VARCHAR(20),
  nationality VARCHAR(20),
  teamID CHAR(3) NOT NULL,
  PRIMARY KEY (coachID),
  FOREIGN KEY (firstName, lastName, nationality) REFERENCES Person(firstName, lastName, nationality),
  FOREIGN KEY (teamID) REFERENCES Team(teamID)
);

DROP TABLE IF EXISTS Card;
```

The terminal window shows the output of the SQL script execution:

```
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.02 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected (0.03 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_wwcData_21049644 |
+-----+
| Card                        |
| Coach                      |
| MatchPlay                  |
| Person                     |
| Player                     |
| Referee                    |
| Refereed                   |
| Stadium                    |
| Team                       |
| playfor                    |
+-----+
10 rows in set (0.00 sec)
```

Implementation of tables (Script: '21049644_implementation.sql')

b. Loading sample data

Open	2_Person.sql	Save	2_Person.sql	File Edit View Search Transform Help	T1006644-1804-hcs-025 / DBS/T1006644_FinalAssignment																																																																																																																																																																																																																																	
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1_Card.sql	2_Person.sql																																																																																																																																																																																																																																					
<pre> INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Katerina', 'Ronzul', 'Ukrainian', '1985-04-06'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Tess', 'Glofsson', 'Swedish', '1985-04-06'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Esther', 'Straubli', 'Swiss', '1985-04-06'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Rebecca', 'Welch', 'British', '1985-04-06'); --Data for Person(Playmer) INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Erin', 'Naylor', 'New Zealander', '1992-04-17'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Rita', 'Periculi', 'New Zealander', '1989-12-07'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Ci', 'Bott', 'New Zealander', '1995-04-22'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Claudia', 'Bunger', 'New Zealander', '1995-04-22'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Michelle', 'Foster', 'New Zealander', '1991-01-09'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Alli', 'Riley', 'New Zealander', '1987-10-30'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Cleverley', 'Daisy', 'New Zealander', '1993-04-30'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Gabi', 'Remite', 'New Zealander', '2001-07-07'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Annaliese', 'Longo', 'New Zealander', '1991-07-01'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Olivia', 'Chance', 'New Zealander', '1993-10-05'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Rebekah', 'Stott', 'New Zealander', '1993-06-17'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Katie', 'Bowen', 'New Zealander', '1994-04-15'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Patge', 'Saxeheel', 'New Zealander', '1990-08-13'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Jacqui', 'Hand', 'New Zealander', '1999-02-19'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Hannah', 'Wilkinson', 'New Zealander', '1992-03-28'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Grace', 'Jale', 'New Zealander', '1999-04-18'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Elizabeth', 'Yoo', 'New Zealander', '1998-12-17'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Indiah-Patge', 'Riley', 'New Zealander', '2001-12-20'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Victoria', 'Esson', 'New Zealander', '1991-03-06'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Milly', 'Clegg', 'New Zealander', '2005-11-01'); INSERT INTO Person(firstName, lastName, nationality, DOB) VALUES('Anna', 'Leat', 'New Zealander', '2001-06-26'); INSERT INTO Person (firstName, lastName, nationality, DOB) VALUES ('Cecilie', 'Fiskerstrand', 'Norwegian', '1995-03-20'), ('Anja', 'Santostevio', 'Norwegian', '1992-06-21'), ('Sara', 'Horte', 'Norwegian', '2000-11-24'), ('Tuva', 'Hansen', 'Norwegian', '1997-08-04'), ('Guro', 'Hergovand', 'Norwegian', '1994-03-15'), ('Maren', 'Bjelde', 'Norwegian', '1989-11-06'), ('Ingrid', 'Syrtstad', 'Norwegian', '1998-04-29'), ('Vilde', 'Risa', 'Norwegian', '1995-07-13'), ('Karoline', 'Savick', 'Norwegian', '1996-03-24'), ('Caroline', 'Graham', 'Norwegian', '1995-02-18'), ('Guro', 'Helten', 'Norwegian', '1994-07-25'), ('Guro', 'Herttersen', 'Norwegian', '1991-08-10'), ('Ther', 'Bjelde', 'Norwegian', '2000-06-05'), ('Ada', 'Heegerberg', 'Norwegian', '1993-07-18'), ('Elizabeth', 'Haugen', 'Norwegian', '1985-06-26') </pre>																																																																																																																																																																																																																																						
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1Tilsetso	Kahubela	South African	1991-04-24																																																																																																																																																																																																																																			
1Toluehi	Payne	Nigerian	1995-04-22																																																																																																																																																																																																																																			
1Tont	Gustavsson	Swedish	1973-08-14																																																																																																																																																																																																																																			
1Tony	Pensio	Italian	1991-04-06																																																																																																																																																																																																																																			
1Tove	Emblom	Swedish	1994-11-20																																																																																																																																																																																																																																			
1Trinity	Rodnan	American	2002-05-20																																																																																																																																																																																																																																			
1Trudi	Carlsan	Chinese	1994-11-18																																																																																																																																																																																																																																			
1Tuva	Hansen	Norwegian	1997-08-04																																																																																																																																																																																																																																			
1Uchenna	Kanu	Nigerian	1997-06-20																																																																																																																																																																																																																																			
1Valentina	Correola	Italian	1991-06-22																																																																																																																																																																																																																																			
1Valentina	Glacinti	Italian	1994-01-02																																																																																																																																																																																																																																			
1Valeria	del Campo	Costa Rican	2000-02-15																																																																																																																																																																																																																																			
1Vanessa	Santana	Argentinian	1990-09-03																																																																																																																																																																																																																																			
1Vanessa	Gillan	Canadian	1990-03-11																																																																																																																																																																																																																																			
1Vanina	Correa	Argentinian	1988-08-14																																																																																																																																																																																																																																			
1Vast	Phliri	Zambian	1990-02-03																																																																																																																																																																																																																																			
1Vicente	Pawa	Dutch	1981-04-18																																																																																																																																																																																																																																			
1Vicki	Amendone	Togian	1985-04-06																																																																																																																																																																																																																																			
1Victoria	Becho	French	2003-10-03																																																																																																																																																																																																																																			
1Victoria	Liou	New Zealander	1993-06-18																																																																																																																																																																																																																																			
1Vilde	Perlowa	Dutch	1999-06-03																																																																																																																																																																																																																																			
1Viola	Risa	Norwegian	1995-07-13																																																																																																																																																																																																																																			
1Viviane	Saligaris	French	1993-11-20																																																																																																																																																																																																																																			
1Vlatko	Asselvy	French	1993-11-20																																																																																																																																																																																																																																			
1Wang	Novodvskiy	Macedonia	2007-09-14																																																																																																																																																																																																																																			
1Wang	Samson	Chinese	1997-07-02																																																																																																																																																																																																																																			
1Wang	Linlin	Chinese	2008-08-14																																																																																																																																																																																																																																			
1Wang	Shanshan	Chinese	1990-01-27																																																																																																																																																																																																																																			
1Wang	Shuang	Chinese	1999-07-23																																																																																																																																																																																																																																			
1Wendie	Renard	French	1990-07-20																																																																																																																																																																																																																																			
1Wendy	Nattis	Panamanian	2002-08-19																																																																																																																																																																																																																																			
1Wendy	Shang	South African	2003-01-18																																																																																																																																																																																																																																			
1Wenke	Kaptein	Dutch	2000-08-13																																																																																																																																																																																																																																			
1Wu	Chengshu	Chinese	1998-06-26																																																																																																																																																																																																																																			
1Xiao	Halyan	Chinese	1993-02-26																																																																																																																																																																																																																																			
1Xiao	Yuan	Chinese	1993-01-19																																																																																																																																																																																																																																			
1Xu	Huan	Chinese	1999-03-06																																																																																																																																																																																																																																			
1Yanli	Rodriguez	Argentinian	1990-01-24																																																																																																																																																																																																																																			
1Yanli	Lin	Chinese	1994-03-13																																																																																																																																																																																																																																			
1Yao	Linwei	Chinese	1995-12-05																																																																																																																																																																																																																																			
1Yao	Wei	Chinese	1997-09-01																																																																																																																																																																																																																																			
1Yasmin	Moroccan	Moroccan	1998-08-08																																																																																																																																																																																																																																			
1Yenthi	Batley	Panamanian	2001-03-29																																																																																																																																																																																																																																			
1Yewande	Balogun	Nigerian	1998-09-28																																																																																																																																																																																																																																			
1Yoon	Yoon	Panamanian	1990-03-13																																																																																																																																																																																																																																			
1Yoshini	Young-shit	Korean	1987-10-28																																																																																																																																																																																																																																			
1Yu-Jeong	Vanasa	Japanese	1985-04-06																																																																																																																																																																																																																																			
1Yut	Hasegawa	Japanese	1995-04-06																																																																																																																																																																																																																																			
1Zecira	Musegwa	Swedish	1997-01-29																																																																																																																																																																																																																																			
1Zhang	Linyan	Chinese	1995-05-26																																																																																																																																																																																																																																			
1Zhang	Lin	Chinese	2001-01-16																																																																																																																																																																																																																																			
1Zhang	Xin	Chinese	1997-07-17																																																																																																																																																																																																																																			
1Zhu	Yu	Chinese	1992-05-23																																																																																																																																																																																																																																			
1Zineb	Redouani	Moroccan	1997-07-23																																																																																																																																																																																																																																			

Person table (Script: 2_Person.sql)

```

--data for Team
INSERT INTO Team(teamID, teamName, ranking)
VALUES('ARG', 'Argentina', 31);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('AUS', 'Australia', 11);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('BRA', 'Brazil', 9);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('CAN', 'Canada', 10);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('CHN', 'China PR', 15);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('COL', 'Colombia', 22);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('COS', 'Costa Rica', 43);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('DEN', 'Denmark', 12);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('ENG', 'England', 4);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('FRA', 'France', 5);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('GER', 'Germany', 6);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('HAI', 'Haiti', 52);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('ITA', 'Italy', 17);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('JAM', 'Jamaica', 37);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('JPN', 'Japan', 8);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('KOR', 'Korea Re', 20);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('MAR', 'Morocco', 58);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('NEO', 'Netherlands', 7);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('NGA', 'New Zealand', 26);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('NGA', 'Nigeria', 32);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('NOR', 'Norway', 13);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('PHI', 'Philippines', 40);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('POR', 'Portugal', 19);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('PAN', 'Panama', 55);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('IRL', 'Ireland', 49);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('SAF', 'South Africa', 44);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('ESP', 'Spain', 2);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('SWE', 'Sweden', 1);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('SMT', 'Switzerland', 21);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('USA', 'United States', 3);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('VIE', 'Vietnam', 34);
INSERT INTO Team(teamID, teamName, ranking)
VALUES('ZAM', 'Zambia', 69);

mysql> SELECT * FROM Team;
+-----+-----+-----+
| teamName | teamID | ranking |
+-----+-----+-----+
| Australia | AUS    | 11      |
| Brazil    | BRA    | 9       |
| Canada    | CAN    | 10      |
| China PR  | CHN    | 15      |
| Colombia  | COL    | 22      |
| Costa Rica | COS    | 43      |
| Denmark   | DEN    | 12      |
| England   | ENG    | 4       |
| France    | FRA    | 5       |
| Germany   | GER    | 6       |
| Haiti     | HAI    | 52      |
| Ireland   | IRE    | 24      |
| Italy     | ITA    | 17      |
| Jamaica   | JAM    | 37      |
| Japan     | JPN    | 8       |
| Korea Re  | KOR    | 20      |
| Morocco   | MOR    | 58      |
| Netherlands | NED    | 7       |
| Nigeria   | NGA    | 32      |
| Norway    | NOR    | 13      |
| New Zealand | NZL    | 26      |
| Panama    | PAN    | 55      |
| Philippines | PHI    | 44      |
| Portugal  | POR    | 19      |
| South Africa | SAF    | 44      |
| Sweden    | SWE    | 1       |
| Switzerland | SMT    | 21      |
| United States | USA    | 3       |
| Vietnam   | VIE    | 34      |
| Zambia    | ZAM    | 69      |
+-----+-----+-----+
31 rows in set (0.01 sec)

```

Team tables (Script: 3_Team.sql)

```
4_Stadium.sql
--data for table Stadium https://www.fifa.com/fifaplus/en/articles/the-womens-world-cup-australia-new-zealand-2022-stadium
INSERT INTO Stadium(stadName, city, state, capacity)
VALUES('Brisbane Stadium', 'Brisbane', 'QLD', 25000);
INSERT INTO Stadium(stadName, city, state, capacity)
VALUES('Hindmarsh Stadium', 'Adelaide', 'SA', 25000);
INSERT INTO Stadium(stadName, city, state, capacity)
VALUES('Perth Rectangular Stadium', 'Perth', 'WA', 25000);
INSERT INTO Stadium(stadName, city, state, capacity)
VALUES('Rectangular Stadium', 'Melbourne', 'VIC', 25000);
INSERT INTO Stadium(stadName, city, state, capacity)
VALUES('Stadium Australia', 'Sydney', 'NSW', 25000);
INSERT INTO Stadium(stadName, city, state, capacity)
VALUES('Sydney Football Stadium', 'Sydney', 'NSW', 25000);
INSERT INTO Stadium(stadName, city, state, capacity)
VALUES('Wellington Regional Stadium', 'Wellington', 'WGN', 25000);
VALUES('Eden Park', 'Kingsland', 'AUK', 25000);
VALUES('Wellington Regional Stadium', 'Wellington', 'WGN', 25000);

mysql> SOURCE 4_Stadium.sql;
SOURCE 4_Stadium.sql: (20000, 1000000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near '--data
for table Stadium https://www.fifa.com/fifaplus/en/articles/the-womens-wo' at
line 1
Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM Stadium;
+-----+-----+-----+-----+
| stadName | city | state | capacity |
+-----+-----+-----+-----+
| Dunedin Stadium | Dunedin | OTA | 69314 |
| Eden Park | Kingsland | AUK | 49536 |
| Hindmarsh Stadium | Adelaide | SA | 23327 |
| Perth Rectangular Stadium | Perth | WA | 13392 |
| Rectangular Stadium | Melbourne | VIC | 28876 |
| Stadium Australia | Sydney | NSW | 69314 |
| Sydney Football Stadium | Sydney | NSW | 38841 |
| Waikato Stadium | Hamilton | WKO | 16271 |
| Wellington Regional Stadium | Wellington | WGN | 31889 |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)

mysql>
```

Stadium table (Script: 4_Stadium.sql)

Player table (Script: 5_Player.sql)

Coach table (Script:6_Coach.sql)


```
7_Referee.sql
VALUES ('CON1', 'R', 25, 'Kate', 'Jacewicz', 'Australian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('UEFA1', 'R', 25, 'Marta Huerta', 'de Azua', 'Spanish');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('UEFA2', 'R', 25, 'Stephanie', 'Frappart', 'French');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('UEFA3', 'R', 25, 'Cheryl', 'Foster', 'Welsh');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('UEFA4', 'R', 25, 'Marta Sole', 'Caputi', 'Italian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('UEFA11', 'R', 25, 'Lullana', 'Demetrescu', 'Romanian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('OFC1', 'R', 25, 'Anna-Marie', 'Keighley', 'New Zealander');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON1', 'R', 25, 'Laura', 'Fortunato', 'Argentinian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON2', 'R', 25, 'Anahi', 'Fernandez', 'Uruguayan');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON3', 'R', 25, 'Enkar', 'Calderas', 'Venezuelian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON4', 'R', 25, 'Edina', 'Alves', 'Brazilian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON1', 'R', 25, 'Tori', 'Penso', 'American');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON2', 'R', 25, 'Myrian', 'Marcotte', 'Canadian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON3', 'R', 25, 'Ekaterina', 'Koroleva', 'American');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON4', 'R', 25, 'Katia', 'Garcia', 'Mexican');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON5', 'R', 25, 'Marie-Soleil', 'Beaudoin', 'Canadian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON6', 'R', 25, 'Marlana', 'Araya', 'Costa Rican');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CON7', 'R', 25, 'Melissa', 'Borjas', 'Honduran');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF1', 'R', 25, 'Salina', 'Hukansanga', 'Zimbabwean');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF2', 'R', 25, 'Akshna', 'Hakalina', 'South African');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF3', 'R', 25, 'Bouchra', 'Karoubi', 'Moroccan');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF4', 'R', 25, 'Vicente', 'Anedone', 'Togian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF5', 'R', 25, 'Kate', 'Jacewicz', 'Australian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF6', 'R', 25, 'Yue-Jeong', 'Kim', 'Korean');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF7', 'R', 25, 'Casey', 'Rebebo', 'Australian');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF8', 'R', 25, 'Yoshimi', 'Yanashita', 'Japanese');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF9', 'R', 25, 'Stephanie', 'Frappart', 'French');
INSERT INTO Referee(refNo, refRole, age, firstName, lastName, nationality)
VALUES ('CAF10', 'R', 25, 'Cheryl', 'Foster', 'Welsh');
Query OK, 1 row affected (0.00 sec)
```

```
21049644@v-1804-hcs-025:~/DB5/21049644_FinalAssignment
mysql> SELECT * FROM Referee;
+-----+-----+-----+-----+-----+-----+
| refNo | refRole | age | firstName | lastName | nationality |
+-----+-----+-----+-----+-----+-----+
| AFCr1 | R       | 25 | Kate      | Jacewicz | Australian  |
| AFCr2 | R       | 25 | Yu-Jeong  | Kim      | Korean     |
| AFCr3 | R       | 25 | Oh        | Hyeon-Jeong | Korean    |
| AFCr4 | R       | 25 | Casey    | Rebebo   | Australian  |
| AFCr5 | R       | 25 | Yoshimi  | Yanashita | Japanese   |
| CAFr1 | R       | 25 | Salina    | Hukansanga | Rwandan    |
| CAFr2 | R       | 25 | Akhona    | Makalina  | South African |
| CAFr3 | R       | 25 | Bouchra   | Karoubi    | Moroccan    |
| CAFr4 | R       | 25 | Vicente   | Anedone    | Togian      |
| CONM1 | R       | 25 | Laura     | Fortunato  | Argentinian |
| CONM2 | R       | 25 | Anahi     | Fernandez  | Uruguayan   |
| CONM3 | R       | 25 | Maria     | Carvajal   | Chilean     |
| CONM4 | R       | 25 | Enkar     | Calderas   | Venezuelan  |
| CONM5 | R       | 25 | Edina     | Alves      | Brazilian    |
| CON1  | R       | 25 | Tori      | Penso      | American    |
| CON2  | R       | 25 | Myrian    | Marcotte   | Canadian    |
| CON3  | R       | 25 | Ekaterina | Koroleva   | American    |
| CON4  | R       | 25 | Katia     | Garcia     | Mexican     |
| CON5  | R       | 25 | Marie-Soleil | Beaudoin  | Canadian    |
| CON6  | R       | 25 | Marlana   | Araya      | Costa Rican |
| CON7  | R       | 25 | Melissa   | Borjas     | Honduran    |
| OFCr1 | R       | 25 | Anna-Marie | Keighley   | New Zealander |
| UEFAr1 | R       | 25 | Maria Sole | Caputi     | Italian     |
| UEFAr2 | R       | 25 | Lullana    | Demetrescu | Romanian    |
| UEFAr3 | R       | 25 | Tess      | Staubli    | Swiss       |
| UEFAr4 | R       | 25 | Kateryna  | Monzul     | Ukrainian   |
| UEFAr5 | R       | 25 | Ivana     | Martincic  | Croatian    |
| UEFAr6 | R       | 25 | Lina      | Lehtovaara | Finn        |
| UEFAr7 | R       | 25 | Marta Huerta | de Azua    | Spanish     |
| UEFAr8 | R       | 25 | Stephanie  | Frappart   | French      |
| UEFAr9 | R       | 25 | Cheryl     | Foster     | Welsh       |
+-----+-----+-----+-----+-----+-----+
32 rows in set (0.00 sec)
```

Referee table (Script: 7_Referee.sql)

```
9_MatchPlay.sql
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M1', 'NZL', 'NOR', 'Eden Park', 'GS', '2023-07-20', 42137, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M2', 'AUS', 'IRE', 'Stadium Australia', 'GS', '2023-07-20', 75784, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M3', 'NGA', 'CAN', 'Rectangular Stadium', 'GS', '2023-07-21', 75784, 0, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M4', 'PHI', 'CAN', 'Dunedin Stadium', 'GS', '2023-07-21', 75784, 0, 2);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M5', 'ESP', 'COS', 'Wellington Regional Stadium', 'GS', '2023-07-21', 75784, 3, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M6', 'USA', 'VIE', 'Eden Park', 'GS', '2023-07-22', 75784, 3, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M7', 'JPN', 'ZAM', 'Waikato Stadium', 'GS', '2023-07-22', 75784, 5, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M8', 'DEN', 'CHN', 'Perth Rectangular Stadium', 'GS', '2023-07-22', 75784, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M9', 'SWE', 'SAF', 'Wellington Regional Stadium', 'GS', '2023-07-23', 75784, 2, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M10', 'BRA', 'PAN', 'Hindmarsh Stadium', 'GS', '2023-07-24', 75784, 4, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M11', 'COL', 'KOR', 'Sydney Football Stadium', 'GS', '2023-07-25', 75784, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M12', 'AUS', 'FRA', 'Waikato Stadium', 'QF', '2023-08-12', 73214, 7, 6);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M13', 'ENG', 'COL', 'Waikato Stadium', 'QF', '2023-08-12', 73214, 2, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M14', 'GER', 'ESP', 'Stadium Australia', 'QF', '2023-08-03', 60875, 1, 2);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M15', 'JPN', 'SWE', 'Waikato Stadium', 'QF', '2023-08-03', 73214, 2, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M16', 'NED', 'ESP', 'Eden Park', 'SF', '2023-08-15', 69432, 2, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M17', 'ENG', 'AUS', 'Stadium Australia', 'SF', '2023-08-16', 75784, 3, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M18', 'ESP', 'DEN', 'Waikato Stadium', 'FN', '2023-08-20', 75784, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M19', 'NZL', 'NOR', 'Eden Park', 'GS', '2023-07-20', 42137, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M20', 'AUS', 'IRE', 'Stadium Australia', 'GS', '2023-07-20', 75784, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M21', 'NGA', 'CAN', 'Rectangular Stadium', 'GS', '2023-07-21', 75784, 0, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M22', 'PHI', 'CAN', 'Dunedin Stadium', 'GS', '2023-07-21', 75784, 0, 2);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M23', 'ESP', 'COS', 'Wellington Regional Stadium', 'GS', '2023-07-21', 75784, 3, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M24', 'USA', 'VIE', 'Eden Park', 'GS', '2023-07-22', 75784, 3, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M25', 'JPN', 'ZAM', 'Waikato Stadium', 'GS', '2023-07-22', 75784, 5, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M26', 'DEN', 'CHN', 'Perth Rectangular Stadium', 'GS', '2023-07-22', 75784, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M27', 'SWE', 'SAF', 'Wellington Regional Stadium', 'GS', '2023-07-23', 75784, 2, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M28', 'BRA', 'PAN', 'Hindmarsh Stadium', 'GS', '2023-07-24', 75784, 4, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M29', 'COL', 'KOR', 'Sydney Football Stadium', 'GS', '2023-07-25', 75784, 1, 0);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M30', 'AUS', 'FRA', 'Waikato Stadium', 'QF', '2023-08-12', 73214, 7, 6);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M31', 'ENG', 'COL', 'Waikato Stadium', 'QF', '2023-08-12', 73214, 2, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M32', 'GER', 'ESP', 'Stadium Australia', 'QF', '2023-08-03', 60875, 1, 2);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M33', 'JPN', 'SWE', 'Waikato Stadium', 'QF', '2023-08-03', 73214, 2, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M34', 'NED', 'ESP', 'Eden Park', 'SF', '2023-08-15', 69432, 2, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M35', 'ENG', 'AUS', 'Stadium Australia', 'SF', '2023-08-16', 75784, 3, 1);
INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
VALUES ('M36', 'ESP', 'DEN', 'Waikato Stadium', 'FN', '2023-08-20', 75784, 1, 0);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM MatchPlay;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| matchID | A_teamID | B_teamID | stdName | round | date | attendance | A_goal | B_goal |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| M01     | NZL      | NOR      | Eden Park | GS    | 2023-07-20 | 42137      | 1      | 0      |
| M02     | AUS      | IRE      | Stadium Australia | GS    | 2023-07-20 | 75784      | 1      | 0      |
| M03     | NGA      | CAN      | Rectangular Stadium | GS    | 2023-07-21 | 75784      | 0      | 0      |
| M04     | PHI      | CAN      | Dunedin Stadium | GS    | 2023-07-21 | 75784      | 0      | 2      |
| M05     | ESP      | COS      | Wellington Regional Stadium | GS    | 2023-07-21 | 75784      | 3      | 0      |
| M06     | USA      | VIE      | Eden Park | GS    | 2023-07-22 | 75784      | 3      | 0      |
| M07     | JPN      | ZAM      | Waikato Stadium | GS    | 2023-07-22 | 75784      | 5      | 0      |
| M08     | DEN      | CHN      | Perth Rectangular Stadium | GS    | 2023-07-22 | 75784      | 1      | 0      |
| M09     | SWE      | SAF      | Wellington Regional Stadium | GS    | 2023-07-23 | 75784      | 2      | 1      |
| M10     | BRA      | PAN      | Hindmarsh Stadium | GS    | 2023-07-24 | 75784      | 4      | 0      |
| M11     | COL      | KOR      | Sydney Football Stadium | GS    | 2023-07-25 | 75784      | 1      | 0      |
| M12     | AUS      | FRA      | Waikato Stadium | QF    | 2023-08-12 | 73214      | 7      | 6      |
| M13     | ENG      | COL      | Waikato Stadium | QF    | 2023-08-12 | 73214      | 2      | 1      |
| M14     | GER      | ESP      | Stadium Australia | QF    | 2023-08-03 | 60875      | 1      | 2      |
| M15     | JPN      | SWE      | Waikato Stadium | QF    | 2023-08-03 | 73214      | 2      | 1      |
| M16     | NED      | ESP      | Eden Park | SF    | 2023-08-15 | 69432      | 2      | 1      |
| M17     | ENG      | AUS      | Stadium Australia | SF    | 2023-08-16 | 75784      | 3      | 1      |
| M18     | ESP      | DEN      | Waikato Stadium | FN    | 2023-08-20 | 75784      | 1      | 0      |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
21 rows in set (0.00 sec)
```

```
mysql> INSERT INTO MatchPlay(matchID, A_teamID, B_teamID, stdName, round, date, attendance, A_goal, B_goal)
-> VALUES('M27', 'SWE', 'AUS', 'Waikato Stadium', '3P', '2023-08-10', 49461, 1, 2);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM MatchPlay;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| matchID | A_teamID | B_teamID | stdName | round | date | attendance | A_goal | B_goal |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| M01     | NZL      | NOR      | Eden Park | GS    | 2023-07-20 | 42137      | 1      | 0      |
| M02     | AUS      | IRE      | Stadium Australia | GS    | 2023-07-20 | 75784      | 1      | 0      |
| M03     | NGA      | CAN      | Rectangular Stadium | GS    | 2023-07-21 | 75784      | 0      | 0      |
| M04     | PHI      | CAN      | Dunedin Stadium | GS    | 2023-07-21 | 75784      | 0      | 2      |
| M05     | ESP      | COS      | Wellington Regional Stadium | GS    | 2023-07-21 | 75784      | 3      | 0      |
| M06     | USA      | VIE      | Eden Park | GS    | 2023-07-22 | 75784      | 3      | 0      |
| M07     | JPN      | ZAM      | Waikato Stadium | GS    | 2023-07-22 | 75784      | 5      | 0      |
| M08     | DEN      | CHN      | Perth Rectangular Stadium | GS    | 2023-07-22 | 75784      | 1      | 0      |
| M09     | SWE      | SAF      | Wellington Regional Stadium | GS    | 2023-07-23 | 75784      | 2      | 1      |
| M10     | BRA      | PAN      | Hindmarsh Stadium | GS    | 2023-07-24 | 75784      | 4      | 0      |
| M11     | COL      | KOR      | Sydney Football Stadium | GS    | 2023-07-25 | 75784      | 1      | 0      |
| M12     | AUS      | FRA      | Waikato Stadium | QF    | 2023-08-12 | 73214      | 7      | 6      |
| M13     | ENG      | COL      | Waikato Stadium | QF    | 2023-08-12 | 73214      | 2      | 1      |
| M14     | GER      | ESP      | Stadium Australia | QF    | 2023-08-03 | 60875      | 1      | 2      |
| M15     | JPN      | SWE      | Waikato Stadium | QF    | 2023-08-03 | 73214      | 2      | 1      |
| M16     | NED      | ESP      | Eden Park | SF    | 2023-08-15 | 69432      | 2      | 1      |
| M17     | ENG      | AUS      | Stadium Australia | SF    | 2023-08-16 | 75784      | 3      | 1      |
| M18     | ESP      | DEN      | Waikato Stadium | FN    | 2023-08-20 | 75784      | 1      | 0      |
| M27     | SWE      | AUS      | Waikato Stadium | 3P    | 2023-08-10 | 49461      | 1      | 2      |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
22 rows in set (0.00 sec)
```

MatchPlay table (Script: 9_MatchPlay.sql)

```

Open  8_Card.sql
user on student.ad.curtin.edu.au /user/4/21049644/WWW/DBS/21049644_FinalAssign...
Save  8_Card.sql
4_Stadium.sql
8_Card.sql

INSERT INTO Card(refNo, cardType, minute, matchID)
VALUES
('CONR1', 'Y', 55, 'M28'),
('CONR1', 'Y', 78, 'M28'),
('UEFAr9', 'Y', 45, 'M15'),
('UEFAr9', 'Y', 88, 'M15'),
('UEFAr9', 'Y', 90, 'M18'),
('AFCr1', 'Y', 10, 'M12'),
('AFCr3', 'Y', 90, 'M17'),
('COMNr5', 'R', 87, 'M16'),
('CONR1', 'R', 67, 'M26'),
('CONR7', 'Y', 55, 'M19'),
('CONR5', 'Y', 70, 'M03'),
('UEFAr9', 'Y', 45, 'M15'),
('UEFAr9', 'Y', 88, 'M15'),
('UEFAr11', 'Y', 30, 'M04'),
('AFCr5', 'Y', 15, 'M24'),
('AFCr3', 'Y', 90, 'M06'),
('COMNr5', 'R', 67, 'M20'),
('CONR3', 'Y', 70, 'M21'),
('UEFAr7', 'Y', 82, 'M13'),
('AFCr4', 'Y', 20, 'M02'),
('COMNr2', 'Y', 63, 'M27'),
('COMNr3', 'R', 75, 'M05'),
('CAFr3', 'Y', 68, 'M23');

SQL  Tab Width: 8  Ln 1, Col 1  INS
VALUES('CAFr3', 'R', 25, 'M04'), ('NOR19', 'NOR', 3, 45), ('NOR16', 'NOR', 0, 9), ('NOR17', 'NOR', 3, 29), ('NOR18', 'NOR', 11, 63), ('NOR19', 'NOR', 0, 5), ('NOR20', 'NOR', 16, 97), ('NOR21', 'NOR', 0, 9), ('NOR22', 'NOR', 5, 0), ('NOR23', 'NOR', 0, 9);
INSERT INTO Refere(refNo, refRole, age, firstName, LastName, nationality)
VALUES('CAFr3', 'R', 25, 'Bouchra', 'Karboult', 'Moroccan');

```

```

21049644@v-180
File Edit View Search Terminal Help
ERROR 1064 (42000): You have an error in your SQL syntax; the right syntax to use near '' at line 1
mysql> INSERT INTO Card(refNo, cardType, minute
-> VALUES
-> ('CONR1', 'Y', 55, 'M28'),
-> ('CONR1', 'Y', 78, 'M28'),
-> ('UEFAr9', 'Y', 45, 'M15'),
-> ('UEFAr9', 'Y', 88, 'M15'),
-> ('UEFAr9', 'Y', 90, 'M18'),
-> ('AFCr1', 'Y', 10, 'M12'),
-> ('AFCr3', 'Y', 90, 'M17'),
-> ('COMNr5', 'R', 87, 'M16'),
-> ('CONR1', 'R', 67, 'M26'),
-> ('CONR7', 'Y', 55, 'M19'),
-> ('CONR5', 'Y', 70, 'M03'),
-> ('UEFAr9', 'Y', 45, 'M15'),
-> ('UEFAr9', 'Y', 88, 'M15'),
-> ('UEFAr11', 'Y', 30, 'M04'),
-> ('AFCr5', 'Y', 15, 'M24'),
-> ('AFCr3', 'Y', 90, 'M06'),
-> ('COMNr5', 'R', 67, 'M20'),
-> ('CONR3', 'Y', 70, 'M21'),
-> ('UEFAr7', 'Y', 82, 'M13'),
-> ('AFCr4', 'Y', 20, 'M02'),
-> ('COMNr2', 'Y', 63, 'M27'),
-> ('COMNr3', 'R', 75, 'M05'),
-> ('CAFr3', 'Y', 68, 'M23');
Query OK, 23 rows affected (0.00 sec)
Records: 23 Duplicates: 0 Warnings: 0

mysql> select * from Card;
+-----+-----+-----+-----+
| refNo | cardtype | minute | matchID |
+-----+-----+-----+-----+
| CONR1 | Y        | 55      | M28      |
| CONR1 | Y        | 78      | M28      |
| UEFAr9 | Y        | 45      | M15      |
| UEFAr9 | Y        | 88      | M15      |
| UEFAr9 | Y        | 90      | M18      |
| AFCr1  | Y        | 10      | M12      |
| AFCr3  | Y        | 90      | M17      |
| COMNr5 | R        | 87      | M16      |
| CONR1  | R        | 67      | M26      |
| CONR7  | Y        | 55      | M19      |
| CONR5  | Y        | 70      | M03      |
| UEFAr9 | Y        | 45      | M15      |
| UEFAr9 | Y        | 88      | M15      |
| UEFAr11 | Y       | 30      | M04      |
| AFCr5  | Y        | 15      | M24      |
| AFCr3  | Y        | 90      | M06      |
| COMNr5 | R        | 67      | M20      |
| CONR3  | Y        | 70      | M21      |
| UEFAr7 | Y        | 82      | M13      |
| AFCr4  | Y        | 20      | M02      |
| COMNr2 | Y        | 63      | M27      |
| COMNr3 | R        | 75      | M05      |
| CAFr3  | Y        | 68      | M23      |
+-----+-----+-----+-----+
23 rows in set (0.00 sec)

mysql>

```

Card table (Script: 8_Card.sql)

```

21049644@v-1804-hcs-011: .../DBS/21049644_FinalAssignment
File Edit View Search Terminal Help
mysql> select * from player;
+-----+-----+-----+-----+
| playerID | teamID | goals | appearances |
+-----+-----+-----+-----+
| PHI01    | PHI    | 0     | 28           |
| PHI02    | PHI    | 1     | 30           |
| PHI03    | PHI    | 2     | 18           |
| PHI04    | PHI    | 0     | 20           |
| PHI05    | PHI    | 18    | 73           |
| PHI06    | PHI    | 14    | 37           |
| PHI07    | PHI    | 21    | 36           |
| PHI08    | PHI    | 3     | 21           |
| PHI09    | PHI    | 3     | 27           |
| PHI10    | PHI    | 5     | 13           |
| PHI11    | PHI    | 11    | 38           |
| PHI12    | PHI    | 0     | 21           |
| PHI13    | PHI    | 0     | 0            |
| PHI14    | PHI    | 4     | 8            |
| PHI15    | PHI    | 12    | 36           |
| PHI16    | PHI    | 3     | 34           |
| PHI17    | PHI    | 0     | 10           |
| PHI18    | PHI    | 0     | 1            |
| PHI19    | PHI    | 1     | 25           |
| PHI20    | PHI    | 22    | 48           |
| PHI21    | PHI    | 10    | 24           |
| PHI22    | PHI    | 0     | 9            |
| PHI23    | PHI    | 0     | 11           |
| AUS01    | AUS    | 0     | 102          |
| AUS02    | AUS    | 0     | 23           |
| AUS03    | AUS    | 1     | 43           |
| AUS04    | AUS    | 16    | 157          |
| AUS05    | AUS    | 3     | 17           |
| AUS06    | AUS    | 0     | 14           |
| AUS07    | AUS    | 3     | 110          |
| AUS08    | AUS    | 2     | 27           |
| AUS09    | AUS    | 29    | 109          |
| AUS10    | AUS    | 30    | 128          |
| AUS11    | AUS    | 10    | 37           |
| AUS12    | AUS    | 0     | 14           |
| AUS13    | AUS    | 12    | 113          |
| AUS14    | AUS    | 8     | 109          |
| AUS15    | AUS    | 0     | 6            |
| AUS16    | AUS    | 12    | 71           |
| AUS17    | AUS    | 29    | 111          |
| AUS18    | AUS    | 0     | 35           |
| AUS19    | AUS    | 17    | 94           |
| AUS20    | AUS    | 63    | 121          |
| AUS21    | AUS    | 3     | 62           |
| AUS22    | AUS    | 1     | 18           |
| AUS23    | AUS    | 0     | 28           |
| CAN01    | CAN    | 0     | 35           |
| CAN02    | CAN    | 2     | 96           |
| CAN03    | CAN    | 4     | 131          |
| CAN04    | CAN    | 4     | 89           |
| CAN05    | CAN    | 5     | 89           |
| CAN06    | CAN    | 10    | 73           |
| CAN07    | CAN    | 3     | 50           |

```

```

10_playfor.sql
user on student.ad.curtin.edu.au /user/4/21049644/WWW/DBS/21049644_FinalAssign...
Save  10_playfor.sql
1_Implementation.sql
6_Coach.sql
3_Team.sql
8_Card.sql
10_playfor.sql

('NOR13', 'NOR', 3, 45),
('NOR16', 'NOR', 0, 9),
('NOR17', 'NOR', 3, 29),
('NOR18', 'NOR', 11, 63),
('NOR19', 'NOR', 0, 5),
('NOR20', 'NOR', 16, 97),
('NOR21', 'NOR', 0, 9),
('NOR22', 'NOR', 5, 0),
('NOR23', 'NOR', 0, 9);

INSERT INTO player (playerID, teamID, goals, appearances)
VALUES
('PHI01', 'PHI', 0, 28),
('PHI02', 'PHI', 1, 30),
('PHI03', 'PHI', 2, 18),
('PHI04', 'PHI', 0, 20),
('PHI05', 'PHI', 18, 73),
('PHI06', 'PHI', 14, 37),
('PHI07', 'PHI', 21, 36),
('PHI08', 'PHI', 3, 21),
('PHI09', 'PHI', 3, 27),
('PHI10', 'PHI', 5, 13),
('PHI11', 'PHI', 11, 38),
('PHI12', 'PHI', 0, 21),
('PHI13', 'PHI', 0, 0),
('PHI14', 'PHI', 4, 8),
('PHI15', 'PHI', 12, 36),
('PHI16', 'PHI', 3, 34),
('PHI17', 'PHI', 0, 10),
('PHI18', 'PHI', 0, 1),
('PHI19', 'PHI', 1, 25),
('PHI20', 'PHI', 22, 48),
('PHI21', 'PHI', 10, 24),
('PHI22', 'PHI', 0, 9),
('PHI23', 'PHI', 0, 11);

INSERT INTO player (playerID, teamID, goals, appearances)
VALUES
('SWI01', 'SWI', 0, 104),
('SWI02', 'SWI', 1, 27),
('SWI03', 'SWI', 0, 13),
('SWI04', 'SWI', 0, 1),
('SWI05', 'SWI', 2, 102),
('SWI06', 'SWI', 13, 53),
('SWI07', 'SWI', 0, 1),
('SWI08', 'SWI', 0, 7),
('SWI09', 'SWI', 70, 145),
('SWI10', 'SWI', 57, 131),
('SWI11', 'SWI', 13, 30),
('SWI12', 'SWI', 0, 2),
('SWI13', 'SWI', 5, 100),
('SWI14', 'SWI', 0, 4),
('SWI15', 'SWI', 1, 30),
('SWI16', 'SWI', 2, 31),

```

playfor table (Script: 10_playfor.sql)

```

Open  user on student.ad.curtin.edu.au /user/121043644/WWW/DBS/21043644_FinalAssign... Save
5_Players.sql 11_Refereed.sql
--Some values are random and fabricated
INSERT INTO Refereed(refNo, matchID)
VALUES( ('CON1', 'R28'),
('CON1', 'R08'),
('UEFA9', 'R18'),
('UEFA9', 'R15'),
('AFCr1', 'R12'),
('AFCr3', 'R17'),
('CONR5', 'R16'),
('CON1', 'R26'),
('CON7', 'R19'),
('CON5', 'R03'),
('UEFA11', 'R04'),
('AFCr5', 'R24'),
('AFCr3', 'R06'),
('CONR5', 'R20'),
('CON3', 'R21'),
('UEFA7', 'R13'),
('AFCr4', 'R02'),
('CONR2', 'R27'),
('CONR3', 'R05'),
('CAF3', 'R23'));

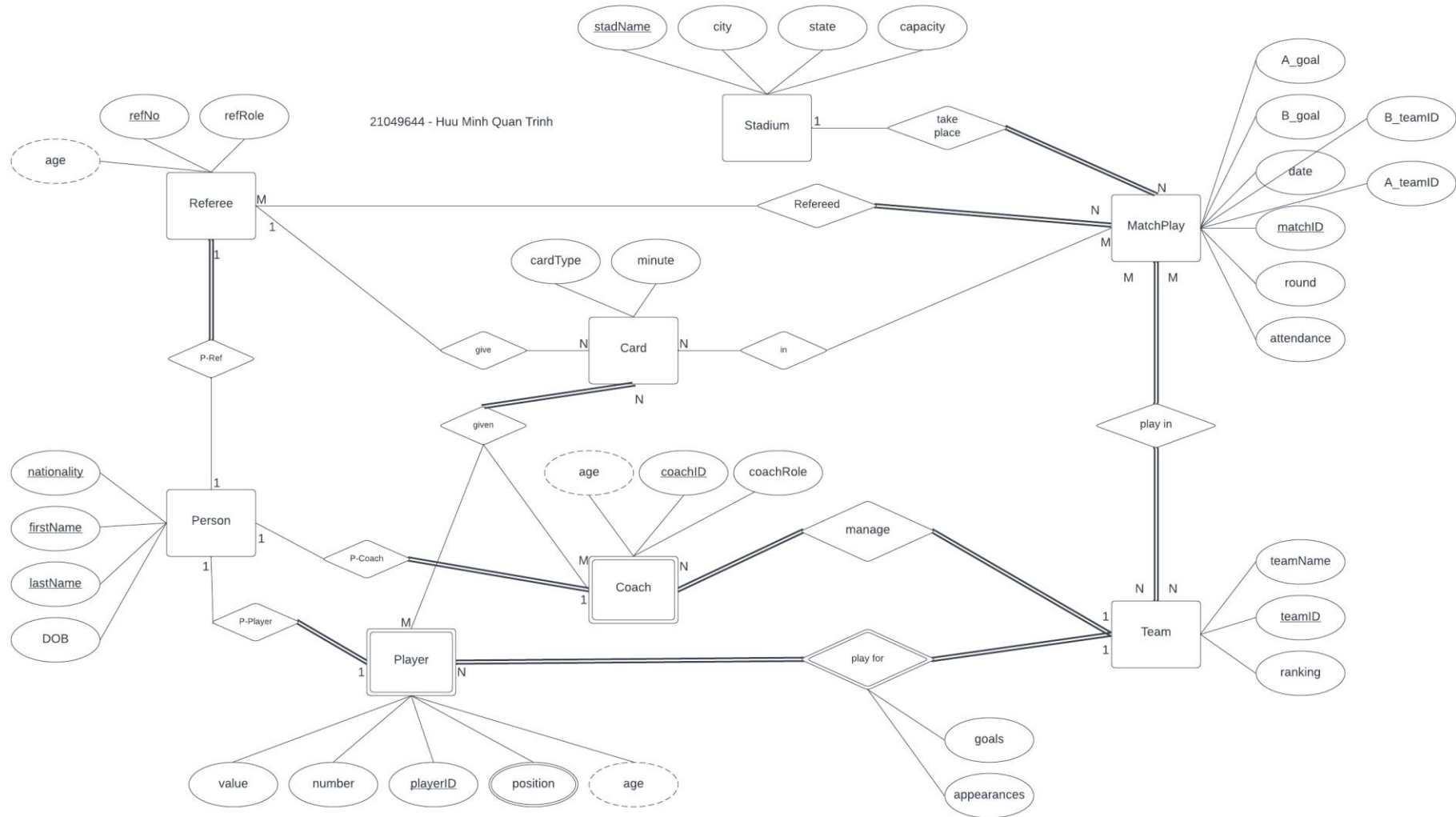
ERROR 1062 (23000): Duplicate entry 'UEFA9', 'R18' for key 'PRIMARY'
mysql> insert into Refereed(refNo, matchID)
-> values('UEFA9', 'R18'),
-> ('UEFA9', 'R15'),
-> ('AFCr1', 'R12'),
-> ('AFCr3', 'R17'),
-> ('CONR5', 'R16'),
-> ('CON1', 'R26'),
-> ('CON7', 'R19'),
-> ('CONR5', 'R03'),
-> ('UEFA11', 'R04'),
-> ('AFCr5', 'R24'),
-> ('AFCr3', 'R06'),
-> ('CONR5', 'R20'),
-> ('CON3', 'R21'),
-> ('UEFA7', 'R13'),
-> ('AFCr4', 'R02'),
-> ('CONR2', 'R27'),
-> ('CONR3', 'R05'),
-> ('CAF3', 'R23');
Query OK, 18 rows affected (0.01 sec)
Records: 18 Duplicates: 0 Warnings: 0

mysql> select * from Refereed;
+-----+-----+
| refNo | matchID |
+-----+-----+
| AFCr4 | R02 |
| CONR5 | R03 |
| UEFA11 | R04 |
| CONR3 | R05 |
| AFCr3 | R06 |
| AFCr1 | R12 |
| UEFA7 | R13 |
| UEFA9 | R15 |
| CONR5 | R16 |
| AFCr3 | R17 |
| UEFA9 | R18 |
| CON7 | R19 |
| CONR5 | R20 |
| CON3 | R21 |
| CAF3 | R23 |
| AFCr5 | R24 |
| CON1 | R26 |
| CONR2 | R27 |
+-----+-----+
18 rows in set (0.00 sec)

```

Refereed table (Script: 11_Refereed.sql)

ER Diagram



Part 3 - Designing and Implementing queries.

Level 1:

1. Provide statements to display every player whose position is Forward.

```
mysql> SELECT * FROM Player WHERE position = 'FW';
```

playerID	pnumber	age	position	firstName	lastName	nationality	teamID
AUS05	5	25	FW	Cortnee	Vine	Australian	AUS
AUS09	9	28	FW	Caitlin	Foord	Australian	AUS
AUS11	11	20	FW	Mary	Fowler	Australian	AUS
AUS16	16	28	FW	Hayley	Raso	Australian	AUS
AUS17	17	32	FW	Kyah	Simon	Australian	AUS
AUS20	20	29	FW	Sam	Kerr	Australian	AUS
CHN07	7	28	FW	Wang	Shuang	Chinese	CHN
CHN11	11	33	FW	Wang	Shanshan	Chinese	CHN
CHN14	14	32	FW	Lou	Jiahui	Chinese	CHN
CHN18	18	28	FW	Tang	Jiali	Chinese	CHN
CHN20	20	27	FW	Xiao	Yuyi	Chinese	CHN
COL11	11	33	FW	Catalina	Usme	Colombian	COL
COL18	18	18	FW	Linda	Caicedo	Colombian	COL
COL21	21	25	FW	Ivonne	Chacon	Colombian	COL
COL23	23	25	FW	Elexa	Bahr	Colombian	COL
ENG07	7	21	FW	Lauren	James	British	ENG
ENG09	9	31	FW	Rachel	Daly	British	ENG
ENG11	11	22	FW	Lauren	Hemp	British	ENG
ENG18	18	25	FW	Chloe	Kelly	British	ENG
ENG19	19	29	FW	Bethany	England	British	ENG
ENG22	22	20	FW	Katie	Robinson	British	ENG
ENG23	23	24	FW	Alessia	Russo	British	ENG
ESP08	8	27	FW	Mariona	Caldentey	Spanish	ESP
ESP09	9	30	FW	Esther	Gonzalez	Spanish	ESP
ESP15	15	22	FW	Eva	Navarro	Spanish	ESP
ESP17	17	26	FW	Alba	Redondo	Spanish	ESP
ESP18	18	19	FW	Salma	Paralluelo	Spanish	ESP
ESP22	22	22	FW	Athenea	del Castillo	Spanish	ESP
FRA09	9	34	FW	Eugenie	Le Sommer	French	FRA
FRA11	11	28	FW	Kadidiatou	Diani	French	FRA
FRA12	12	25	FW	Clara	Mateo	French	FRA
FRA18	18	29	FW	Viviane	Asseyi	French	FRA
FRA19	19	21	FW	Naomie	Feller	French	FRA
FRA23	23	19	FW	Vicki	Becho	French	FRA
HAI07	7	26	FW	Batcheba	Louis	Haitian	HAI
HAI10	10	24	FW	Nerilia	Mondesir	Haitian	HAI
HAI11	11	24	FW	Roseline	Eloissaint	Haitian	HAI
HAI15	15	19	FW	Darlina	Joseph	Haitian	HAI
HAI17	17	25	FW	Shwendesky	Joseph	Haitian	HAI
HAI22	22	30	FW	Roselord	Borgella	Haitian	HAI
ITA07	7	23	FW	Sofia	Cantore	Italian	ITA

- Spain is the new WWC champion, provide statements to display every of their player, with the descending order of 'age' column.

```
mysql> SELECT * FROM Player
-> WHERE teamID = 'ESP'
-> ORDER BY age DESC;
```

playerID	pnumber	age	position	firstName	lastName	nationality	teamID
ESP10	10	33	MF	Jennifer	Hermoso	Spanish	ESP
ESP21	21	32	MF	Claudia	Zornoza	Spanish	ESP
ESP04	4	32	DF	Irene	Paredes	Spanish	ESP
ESP09	9	30	FW	Esther	Gonzalez	Spanish	ESP
ESP05	5	29	DF	Ivana	Andres	Spanish	ESP
ESP11	11	29	MF	Alexia	Putellas	Spanish	ESP
ESP08	8	27	FW	Mariona	Caldentey	Spanish	ESP
ESP07	7	26	MF	Irene	Guerrero	Spanish	ESP
ESP20	20	26	DF	Rocio	Galvez	Spanish	ESP
ESP17	17	26	FW	Alba	Redondo	Spanish	ESP
ESP06	6	25	MF	Aitana	Bonmati	Spanish	ESP
ESP02	2	24	DF	Ona	Batlle	Spanish	ESP
ESP12	12	23	DF	Oihane	Hernandez	Spanish	ESP
ESP19	19	23	DF	Olga	Carmona	Spanish	ESP
ESP14	14	23	DF	Laia	Codina	Spanish	ESP
ESP01	1	23	GK	Misa	Rodriguez	Spanish	ESP
ESP03	3	23	MF	Teresa	Abelleira	Spanish	ESP
ESP15	15	22	FW	Eva	Navarro	Spanish	ESP
ESP22	22	22	FW	Athenea	del Castillo	Spanish	ESP
ESP23	23	22	GK	Cata	Coll	Spanish	ESP
ESP16	16	21	MF	Maria	Perez	Spanish	ESP
ESP13	13	21	GK	Enith	Salon	Spanish	ESP
ESP18	18	19	FW	Salma	Paralluelo	Spanish	ESP

```
23 rows in set (0.00 sec)

mysql>
```

- Show every stadium with capacity of more than 40 000.

```
mysql> select stadName from Stadium
-> where capacity > 40000;
```

stadName
Dunedin Stadium
Eden Park
Stadium Australia

```
3 rows in set (0.00 sec)

mysql>
```

- Show the average age of every referee and store the data in a new column with proper column name.

```
mysql> SELECT AVG(age) AS averageAge from Referee;
```

averageAge
25.0000

```
1 row in set (0.01 sec)
```

5. Show the gap between the oldest and the youngest person in this tournament (Including players, coaches, referees).

```
mysql> SELECT MIN(DOB) AS Youngest, MAX(DOB) AS Oldest, DATEDIFF(MAX(DOB), MIN(DOB)) AS ageDiff
-> FROM Person;
+-----+-----+-----+
| Youngest | Oldest | ageDiff |
+-----+-----+-----+
| 1951-06-21 | 2007-06-29 | 20462 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

Level 2:

1. From Player table, find the player's full name and age who has the same age as "Aitana Bonmati" of Spain. (Reference: Lecture 6 – Slide 12).

```
mysql> SELECT age, CONCAT(firstName, ' ', lastName) AS Name
-> FROM Player
-> WHERE age = (SELECT age FROM Player
-> WHERE firstName='Aitana' and lastName='Bonmati');
+-----+-----+
| age | Name |
+-----+-----+
| 25 | CortneeVine |
| 25 | ClareWheeler |
| 25 | TeaganMicah |
| 25 | JessieFleming |
| 25 | ZhuYu |
| 25 | YaoWei |
| 25 | LorenaBedoya |
| 25 | IvonneChacon |
| 25 | AlexaBahr |
| 25 | JessCarter |
| 25 | ChloeKelly |
| 25 | AitanaBonmati |
| 25 | ElisaDe Almeida |
| 25 | ClaraMateo |
| 25 | ConstancePicaud |
| 25 | JennyferLimage |
| 25 | ShwendeskyJoseph |
| 25 | ManuelaGiugliano |
| 25 | AnnamariaSerturini |
| 25 | KonyaPlummer |
| 25 | TiernnyWiltshire |
| 25 | HonokaHayashi |
| 25 | RyuJi-soo |
| 25 | KangChae-rim |
| 25 | LizeKop |
| 25 | JacinthaWeimar |
| 25 | OliviaMcDaniel |
| 25 | ChandlerMcDaniel |
| 25 | AngelaBeard |
| 25 | AliciaBarker |
| 25 | LuciaAlves |
| 25 | AnaRute |
| 25 | AnaCapeta |
| 25 | SavannahDeMelo |
| 25 | EmilyFox |
| 25 | CatherineMusonda |
| 25 | MaryMulenga |
| 25 | MaryWilsonbe |
| 25 | MarthaTembo |
| 25 | IreenLungu |
| 25 | HellenChanda |
| 25 | AvellChitundu |
+-----+-----+
42 rows in set (0.00 sec)
```

2. Show every player's full name, and teams that participate in the Quarter-final

```
mysql> SELECT a.playerID, a.firstName, a.lastName
-> FROM Player a
-> NATURAL JOIN MatchPlay b
-> WHERE a.teamID = b.A_teamID OR a.teamID = b.B_teamID
-> AND b.round = 'QF'
-> GROUP BY a.playerID, a.firstName, a.lastName;
```

playerID	firstName	lastName
AUS01	Lydia	Williams
AUS02	Courtney	Nevin
AUS03	Aivi	Luik
AUS04	Clare	Polkinghorne
AUS05	Cortnee	Vine
AUS06	Clare	Wheeler
AUS07	Steph	Catley
AUS08	Alex	Chidiac
AUS09	Caitlin	Foord
AUS10	Emily	van Egmond
AUS11	Mary	Fowler
AUS12	Teagan	Micah
AUS13	Tameka	Yallop
AUS14	Alanna	Kennedy
AUS15	Clare	Hunt
AUS16	Hayley	Raso
AUS17	Kyah	Simon
AUS18	Mackenzie	Arnold
AUS19	Katrina	Gorry
AUS20	Sam	Kerr
AUS21	Ellie	Carpenter
AUS22	Charlotte	Grant
AUS23	Kyra	Cooney-Cross
COL01	Catalina	Perez
COL02	Manuela	Vanegas
COL03	Daniela	Arias
COL04	Diana	Ospina
COL05	Lorena	Bedoya
COL06	Daniela	Montoya
COL07	Maria Camila	Reyes
COL08	Marcela	Restrepo
COL09	Mayra	Ramirez
COL10	Leicy	Santos
COL11	Catalina	Usme
COL12	Sandra	Sepulveda
COL13	Natalia	Giraldo
COL14	Angela	Baron

3. Show every player who played in this tournament with more than 30 international caps.

```
mysql> SELECT a.playerID, CONCAT(a.firstName, ' ', a.lastName) AS Name FROM Player a JOIN MatchPlay b ON a.teamID=b.A_teamID OR a.teamID=b.B_teamID WHERE (SELECT c.appearances FROM playerfor c WHERE c.playerID=a.playerID AND c.appearances>30);
```

playerID	Name
AUS01	Lydia Williams
AUS03	Aivi Luik
AUS04	Clare Polkinghorne
AUS07	Steph Catley
AUS09	Caitlin Foord
AUS10	Emily van Egmond
AUS11	Mary Fowler
AUS13	Tameka Yallop
AUS14	Alanna Kennedy
AUS16	Hayley Raso
AUS17	Kyah Simon
AUS18	Mackenzie Arnold
AUS19	Katrina Gorry
AUS20	Sam Kerr
AUS21	Ellie Carpenter
CAN01	Kailen Sheridan
CAN02	Allysha Chapman
CAN03	Kadeisha Buchanan
CAN04	Sheilina Zadorsky
CAN05	Quinn Rebecca
CAN06	Deanne Rose
CAN07	Julia Grosso
CAN08	Jayde Riviere
CAN09	Jordyn Huitema
CAN10	Ashley Lawrence
CAN12	Christine Sinclair
CAN13	Sophie Schmidt
CAN15	Nichelle Prince
CAN16	Gabrielle Carle
CAN17	Jessie Fleming
CAN19	Adriana Leon
PHI05	Hali Long
PHI06	Tahnat Annis
PHI07	Sarina Bolden
PHI11	Anticka Castaneda
PHI15	Carleigh Frilles
PHI16	Sofia Harrison
PHI20	Quinley Quezada
ESP04	Irene Paredes
ESP05	Ivana Andres
ESP06	Aitana Bonmati
ESP08	Martona Caldentey
ESP09	Esther Gonzalez
ESP10	Jennifer Hermoso
ESP11	Alexia Putellas
JPN01	Ayaka Yamashita
JPN02	Risa Shintzu

4. Show ID and full name of every referee taking part in "Eden Park" stadium.

```
mysql> SELECT a.refNo, CONCAT(b.firstName, ' ', b.lastName) AS RefName
-> FROM Refereed a JOIN Referee b ON a.refNo=b.refNo
-> WHERE a.matchID = (SELECT c.matchID
-> FROM MatchPlay c
-> WHERE a.matchID=c.matchID AND c.stadName='Eden Park');
+-----+-----+
| refNo | RefName |
+-----+-----+
| AFCr3 | Oh Hyeon-jeong |
| UEFAr7 | Marta Huerta de Aza |
+-----+-----+
2 rows in set (0.00 sec)
```

Part 4 - Increase the data base functionality with advanced concept.

1. Create view to show every player with total international caps is more than 0 (Reference: Lecture 8 Slide 32).

```
mysql> CREATE VIEW mostExperiencedPlayer AS
-> SELECT a.playerID, b.firstName, b.lastName, SUM(a.appearances) AS TotalAppearances
-> FROM playfor a JOIN Player b ON a.playerID=b.playerID
-> WHERE a.appearances > 0
-> GROUP BY a.playerID, b.firstName, b.lastName
-> ORDER BY TotalAppearances DESC;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM mostExperiencedPlayer;
```

playerID	firstName	lastName	TotalAppearances
CAN12	Christine	Sinclair	646
CAN13	Sophie	Schmidt	442
AUS04	Clare	Polkinghorne	314
JPN04	Saki	Kumagai	266
CAN03	Kadeisha	Buchanan	262
AUS10	Emily	van Egmond	256
AUS20	Sam	Kerr	242
CAN10	Ashley	Lawrence	234
CAN17	Jessie	Fleming	230
AUS13	Tameka	Yallop	226
AUS17	Kyah	Simon	222
AUS07	Steph	Catley	220
AUS14	Alanna	Kennedy	218
AUS09	Caitlin	Foord	218
AUS01	Lydia	Williams	204
ESP11	Alexia	Putellas	200
ESP10	Jennifer	Hermoso	194
CAN19	Adriana	Leon	192
CAN02	Allysha	Chapman	192
AUS19	Katrina	Gorry	188
CAN15	Nichelle	Prince	180
ESP04	Irene	Paredes	180
CAN04	Shelina	Zadorsky	178
CAN05	Quinn	Rebecca	178
CAN06	Deanne	Rose	146
PHI05	Hali	Long	146
AUS16	Hayley	Raso	142
CAN09	Jordyn	Huitema	128
JPN14	Yui	Hasegawa	126
JPN11	Mina	Tanaka	124
AUS21	Ellie	Carpenter	124

2. Procedure to insert new player (Reference: PracTest04).

```
mysql> DROP PROCEDURE IF EXISTS InsertNewPlayer;
Query OK, 0 rows affected (0.00 sec)

mysql> DELIMITER //
mysql> CREATE PROCEDURE InsertNewPlayer(
  -> firstName VARCHAR(20), lastName VARCHAR(20), nationality VARCHAR(20), DOB
  DATE,
  -> playerID VARCHAR(10), pnumber INT, age INT, position CHAR(2), teamID VARCH
  AR(10))
  -> COMMENT 'Insert info for new player'
  -> BEGIN
  -> INSERT INTO Person(firstName, lastName, nationality, DOB)
  -> VALUES(firstName, lastName, nationality, DOB);
  -> INSERT INTO Player(playerID, pnumber, age, position, firstName, lastName,
  nationality, teamID)
  -> VALUES(playerID, pnumber, age, position, firstName, lastName, nationality
  , teamID);
  -> END;
  -> //
Query OK, 0 rows affected (0.00 sec)

mysql> DELIMITER ;
mysql> CALL InsertNewPlayer('Lionel', 'Messi', 'Argentinian', '1987-06-24', 'ARG9
9', '99', 36, 'FW', 'ARG');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint f
ails ( `wmcData_21049644`.`Player`, CONSTRAINT `Player_ibfk_2` FOREIGN KEY (`team
ID`) REFERENCES `Team` (`teamID`))
mysql> CALL InsertNewPlayer('Harry', 'Trinh', 'Spanish', '2004-28-10', 'ESP99',
99, 19, 'DF', 'ESP');
ERROR 1292 (22007): Incorrect date value: '2004-28-10' for column 'DOB' at row 1
mysql> CALL InsertNewPlayer('Harry', 'Trinh', 'Spanish', '2004-10-28', 'ESP99',
99, 19, 'DF', 'ESP');
Query OK, 1 row affected (0.01 sec)

mysql> █
```

3. Create a trigger to check for duplication after calling procedure InsertNewPlayer() (Check for duplication of 'firstName', 'lastName' and 'DOB' in Person table) (Reference: Stack Overflow - <https://stackoverflow.com/questions/37136254/mysql-trigger-for-checking-duplicate-record-in-table-before-insert>).

```
mysql> DELIMITER //
mysql> CREATE TRIGGER InsertNewPlayerExHandling
  -> BEFORE INSERT ON Person
  -> FOR EACH ROW
  -> BEGIN
  -> IF EXISTS(SELECT 1 FROM Person WHERE firstName = NEW.firstName AND lastName = NEW.lastName AND nationality = NEW.nationality AND DOB = NEW.DOB) THEN
  -> SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'Duplicate Person information';
  -> END IF;
  -> END //
Query OK, 0 rows affected (0.02 sec)

mysql> DELIMITER ;
mysql> CALL InsertNewPlayer('Aitana', 'Bonmati', 'Spanish', '1998-01-18', 'ESP06', 6, 25, 'MF', 'ESP');
ERROR 1305 (42000): PROCEDURE wmcData_21049644.InsertNewPlayer does not exist
mysql> DELIMITER //
mysql> CREATE PROCEDURE InsertNewPlayer(
  -> firstName VARCHAR(20), lastName VARCHAR(20), nationality VARCHAR(20), DOB DATE,
  -> playerID VARCHAR(10), pnumber INT, age INT, position CHAR(2), teamID VARCHAR(10))
  -> COMMENT 'Insert info for new player'
  -> BEGIN
  -> INSERT INTO Person(firstName, lastName, nationality, DOB)
  -> VALUES(firstName, lastName, nationality, DOB);
  -> INSERT INTO Player(playerID, pnumber, age, position, firstName, lastName, nationality, teamID)
  -> VALUES(playerID, pnumber, age, position, firstName, lastName, nationality, teamID);
  -> END;
  -> //
Query OK, 0 rows affected (0.00 sec)

mysql> CALL InsertNewPlayer('Aitana', 'Bonmati', 'Spanish', '1998-01-18', 'ESP06', 6, 25, 'MF', 'ESP');
  -> //
ERROR 1644 (45000): Duplicate Person information
mysql> █
```

Part 5 – Connect database to a programming language.

A screenshot of a code editor window titled "21049644@v-1804-hcs-120: .../DBS/HuuMinhQuanTrinh_21049644". The editor has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The code being edited is as follows:

```
import mysql.connector  
  
mydb = mysql.connector.connect(  
    host="127.0.0.1",  
    user="me",  
    password="myUserPassword",  
    database="wwcData_21049644"  
)  
print(mydb)  
  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~
```

The status bar at the bottom indicates the file path is "connectPy.py" with line 9L and column 170C. On the right side of the status bar, it shows "1,1" and "All".

(Script: connectPy.py)

Part 6 – Discussion.

- Overall, the work has covered almost every aspect of the Assignment Specification, however there are still some unfinished parts and improvements to be considered.
- Regarding the designing process, it is the fact that data sources for women football is not as enormous as men's. Thus, there are some interesting attributes can not be implemented such as the odds before each match, expected goal index or player market value.
- Connect to a programming language: I have tried multiple solutions to get the final part done, however, none of those could produce any result.

```
home > harry > UCP > sqlconnect.py > ...
1 import mysql.connector
2 mydb = mysql.connector.connect(
3     user='me',
4     password='myIsvrPassword',
5     host='127.0.0.1',
6     database='wacData_21049644'
7 )
8 print(mydb)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE
harry@Harry:~/ACP$ python3 sqlconnect.py
Traceback (most recent call last):
  File "/home/harry/.local/lib/python3.10/site-packages/mysql/connector/connection_cext.py", line 302, in _open_connection
    self._mysql.connector.connect(**kwargs)
  File "/home/harry/.local/lib/python3.10/site-packages/mysql/connector/abstracts.py", line 1217, in connect
    self._open_connection()
  File "/home/harry/.local/lib/python3.10/site-packages/mysql/connector/connection_cext.py", line 302, in _open_connection
    raise get_mysql_exception(
mysql.connector.errors.DatabaseError: 2003 (HY000): Can't connect to MySQL server on '127.0.0.1:3306' (111)
The above exception was the direct cause of the following exception:
Traceback (most recent call last):
  File "/home/harry/ACP/sqlconnect.py", line 2, in <module>
    mydb = mysql.connector.connect(
  File "/home/harry/.local/lib/python3.10/site-packages/mysql/connector/pooling.py", line 293, in connect
    return MySQLConnection(*args, **kwargs)
  File "/home/harry/.local/lib/python3.10/site-packages/mysql/connector/connection_cext.py", line 128, in __init__
    self.connect(**kwargs)
  File "/home/harry/.local/lib/python3.10/site-packages/mysql/connector/abstracts.py", line 1217, in connect
    self._open_connection()
  File "/home/harry/.local/lib/python3.10/site-packages/mysql/connector/connection_cext.py", line 302, in _open_connection
    raise get_mysql_exception(
mysql.connector.errors.DatabaseError: 2003 (HY000): Can't connect to MySQL server on '127.0.0.1:3306' (111)
harry@Harry:~/ACP$
```

For this VSCode, it always seems to have issue with the 'host' parameter. I have tried both '127.0.0.1' and 'localhost' but hardly there was a result.

```
21049644@v-1804-hcs-120: .../DBS/HuuMinhQuanTrinh_21049644
File Edit View Search Terminal Help
21049644@v-1804-hcs-120:~/DBS/HuuMinhQuanTrinh_21049644$ python3
Python 3.6.9 (default, Mar 10 2023, 16:46:00)
[GCC 8.4.0] on linux
Type "help", "copyright", "credits" or "license()" for more information.
>>> import mysql.connector
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "/home/21049644/.local/lib/python3.6/site-packages/mysql/connector/__init__.py", line 32, in <module>
    from .connection_cext import CMySQLConnection
  File "/home/21049644/.local/lib/python3.6/site-packages/mysql/connector/connection_cext.py", line 40, in <module>
    from .abstracts import MySQLConnectionAbstract
  File "/home/21049644/.local/lib/python3.6/site-packages/mysql/connector/abstracts.py", line 33, in <module>
    from __future__ import annotations
  File "/home/21049644/.local/lib/python3.6/site-packages/mysql/connector/abstracts.py", line 33, in <module>
    from __future__ import annotations
SyntaxError: future feature annotations is not defined
>>>
```

Running on python3 console resulted in this error even though mysql-connector package is available. I have tried some advanced solutions such as 'grant privilege', it did not work either.

