

CPSC 304 Project Cover Page

Milestone #: 2

date: Oct 19, 2023

Group Number: 143

| name | Student Number | CS Alias (Userid) | Preferred E-mail Address |
|------------------|----------------|-------------------|--------------------------|
| Jerry Wan | 41421553 | l3d0g | jerrywan1215@gmail.com |
| Tyler Tao | 54964465 | y3d4w | tyler2021tao@gmail.com |
| Marcus Rodrigues | 27493519 | m8u4r | marcthreza@gmail.com |

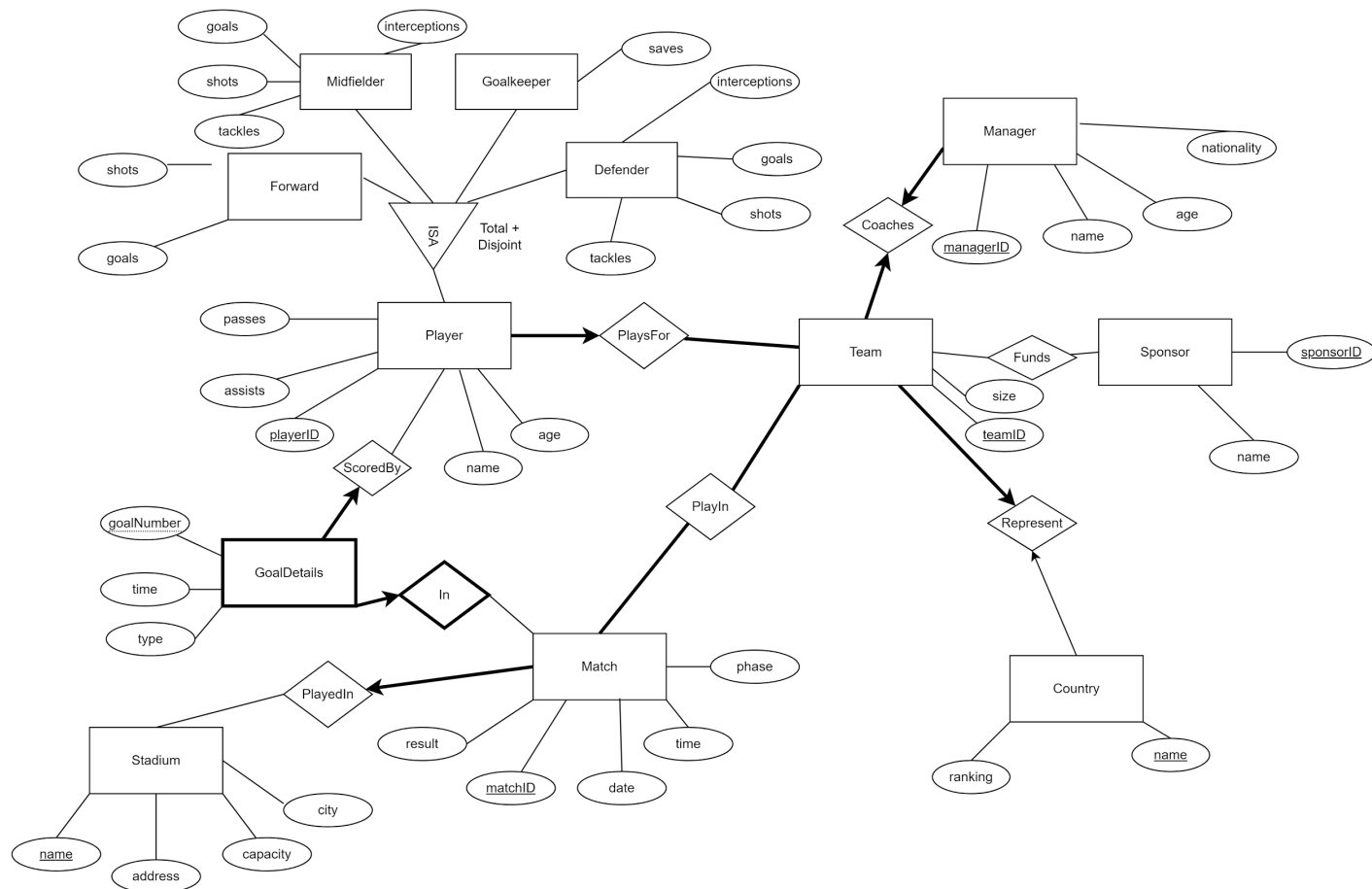
By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

2. Project Summary

This database will cover the 2022 FIFA World cup, which will act as an information manager providing functionalities to store and retrieve both on-field and off-field data, including match schedules, goals, teams, players, etc.

3. ER Diagram



Changes made from milestone 1 submission:

- Added ISA constraints for Players.
- Fixed ISA notation to follow the textbook's ER notation.
- Revised the relationship between GoalDetails and Player, so now GoalDetails only has Match as its parent.
- Removed the Group entity and its relations.

- Edited names of various entities (eg. Teams -> Team) to be more consistent, correct or descriptive
- Added and revised attributes to GoalDetails entity, so that correct and key information can be included in database
- Added meaningful attributes to Stadium and Match
- Changed all variable names to lower camel case

4. Database Schema (need changes)

(Structure written according to Piazza post @274) PK is underlined, FK is bold.

Stadium (name: varchar, address: varchar, capacity: integer, city: varchar)

Match (matchID: integer, **stadiumName**: varchar, result: varchar, date: varchar, time: varchar, phase: varchar)

GoalDetails (goalNumber: integer, **matchID**: integer, **playerID**: integer, time: varchar, Type: varchar)

PlayIn (**matchID**: integer, **teamID**: integer)

Team (teamID: integer, Size: integer, **countryName**: varchar, **managerID**: varchar)

Country(name: varchar, ranking: integer, **teamID**: integer)

Manager(managerID: integer, name: varchar, age: integer, nationality: varchar, **teamID**: integer)

Funds(**sponsorID**: integer, **teamID**: integer)

Sponsor(sponsorID: integer, name: varchar)

Player (playerID: integer, **teamID**: integer, Passes: integer, assists: integer, name: varchar, age: integer)

Forward (**playerID**: integer, shots: integer, goals: integer)

Midfield (**playerID**: integer, tackles: integer, shots: integer, goals: integer, interceptions: integer)

Goalkeeper (**playerID**: integer, saves: integer)

Defender (**playerID**: integer, tackles: integer, shots: integer, goals: integer, interceptions: integer)

5. Functional Dependencies

1. Stadium: name -> address, capacity, city
address -> city

2. Match: matchID -> stadiumName, result, date, time, phase
date -> phase
3. GoalDetails: goalNumber, matchID -> playerID, time, Type
4. PlayIn: No Functional Dependencies
5. Team: teamID -> Size, countryName, managerID
countryName -> teamID, Size, managerID
managerID -> Size, teamID, countryName
6. Country: name -> ranking, teamID
ranking -> name, teamID
teamID -> name, ranking
7. Manager: managerID -> name, age, nationality, teamID
teamID -> name, age, nationality, managerID
8. Funds: No functional dependencies
9. Sponsor: sponsorID -> name
10. Player: playerID -> teamID, Passes, assists, name, age
11. Forward: playerID -> shots, goals
12. Midfield: playerID -> tackles, shots, goals, interceptions
13. Goalkeeper: playerID -> saves
14. Defender: playerID -> tackles, shots, goals, interceptions

6. Normalization (3NF) using Synthesis

(All tables including the ones normalized include at the end of the question)

Stadium (name: varchar, address: varchar, capacity: integer, city: varchar)

FDs: name -> address, capacity, city
address -> city

Minimal Cover:

Standardize FDs:

name -> address
name -> capacity
name -> city
address -> city

LHS are minimized.

name+ = {name, capacity, city, address} without considering name->City, so name->City is redundant.

name -> capacity

name -> address

address-> city

Is the minimal cover.

address -> city violates 3NF, address is not a superkey, city is not part of a key.

Decompose Stadium

Stadium₂(address: varchar, city: varchar)

Stadium₃(name: varchar, address: varchar, capacity: integer)

Match(matchID: integer, **stadiumName**: varchar, result: varchar,
date: varchar, time: varchar, phase: varchar)

FDs: matchID -> stadiumName, result, date, time, phase

date -> phase

Standardize FDs.

matchID -> stadiumName

matchID -> result

matchID -> date

matchID -> time

matchID -> phase

date -> phase

LHS are minimized.

matchID+ = {matchID, stadiumName, result, date, time, phase} while not considering

matchID->phase, so matchID->phase is redundant.

matchID -> stadiumName

matchID -> result

matchID -> date

matchID -> time

date -> phase

Is the minimal cover.

date->phase violates 3NF. date is not a superkey, phase is not a member of the key.

Decompose Match(matchID, stadiumName, result, date, time, phase).

Match₂(date, phase)

Match₃(matchID, stadiumName, result, date, time)

GoalDetails (goalNumber: integer, matchID: integer, **playerID**: integer, time: varchar, Type: varchar)

FDs: goalNumber, matchID -> playerID, time, Type

Standardize FDS:

goalNumber, matchID -> playerID

goalNumber, matchID -> time

goalNumber, matchID -> Type

LHS are minimized.

goalNumber, matchID -> playerID

goalNumber, matchID -> time

goalNumber, matchID -> Type

Each relation adheres to the 3NF rule

Team (teamID: integer, Size: integer, **countryName**: varchar, **managerID**: varchar)

FDs:

teamID -> Size, countryName, managerID

countryName -> teamID, Size, managerID

managerID -> Size, teamID, countryName

Since teamID is the primary key, countryName and managerID are Candidate Keys, Team is already in 3NF.

Country(name: varchar, ranking: integer, **teamID**: integer)

FDs:

name -> ranking, teamID

ranking -> name, teamID

teamID -> name, ranking

FDs do not violate 3NF - name is PK, ranking and teamID are CKs. Country is in 3NF.

Manager(managerID: integer, name: varchar, age: integer, nationality: varchar, **teamID: integer**: integer)

FDs:

managerID -> name, age, nationality, teamID

teamID -> name, age, nationality, managerID

FDs do not violate 3NF - managerID is PK, teamID is a CK. Manager is in 3NF.

Sponsor(sponsorID: integer, name: varchar)

Schema with 2 attributes automatically in 3NF

Player (playerID, **teamID**, Passes: integer, assists: integer, name: varchar, age: integer)

playerID -> teamID, Passes, assists, name, age

playerID is the primary key, and is the only FD, so already in 3NF.

Forward (playerID, shots: integer, goals: integer)

FDs: playerID -> shots, goals

playerID is the primary key, and is the only FD, so already in 3NF.

Midfield (playerID, tackles: integer, shots: integer, goals: integer, interceptions: integer)

FDs: playerID -> tackles, shots, goals, interceptions

playerID is the primary key, and is the only FD, so already in 3NF.

Goalkeeper (playerID, saves: integer)

FDs: playerID -> saves

playerID is the primary key, and is the only FD, so already in 3NF.

Defender (playerID, tackles: integer, shots: integer, goals: integer, interceptions: integer)

FDs: playerID -> tackles, shots, goals, interceptions

playerID is the primary key, and is the only FD, so already in 3NF.

All Tables (After Normalization):

Stadium₂(address: varchar, city: varchar)

Stadium₃(name: varchar, **address**: varchar, capacity: integer)

Match₂(date: varchar, phase: varchar)

Match₃(matchID: integer, stadiumName: varchar, result: varchar, **date**: varchar, time: avarchar)

GoalDetails (goalNumber: integer, matchID: integer, **playerID**: integer, time: varchar, Type: varchar)

PlayIn (**matchID**: integer, **teamID**: integer)

Team (teamID: integer, Size: integer, **countryName**: varchar, **managerID**: varchar)

Country(name: varchar, ranking: integer, **teamID**: integer)

Manager(managerID: integer, name: varchar, age: integer, nationality: varchar, **teamID**: integer)

Funds(**sponsorID**: integer, **teamID**: integer)

Sponsor(sponsorID: integer, name: varchar)

Player (playerID: integer, **teamID**: integer, Passes: integer, assists: integer, name: varchar, age: integer)

Forward (**playerID**: integer, shots: integer, goals: integer)

Midfield (**playerID**: integer, tackles: integer, shots: integer, goals: integer, interceptions: integer)

Goalkeeper (playerID: integer, saves: integer)

Defender (playerID: integer, tackles: integer, shots: integer, goals: integer, interceptions: integer)

7. SQL DDL Statements

```
CREATE TABLE Stadium2 (  
    address VARCHAR PRIMARY KEY,  
    city VARCHAR)
```

```
CREATE TABLE Stadium3 (  
    name VARCHAR PRIMARY KEY,  
    address VARCHAR,  
    capacity INTEGER,  
    FOREIGN KEY (address)  
        REFERENCES Stadium2(address))
```

```
CREATE TABLE Match2 (  
    date VARCHAR PRIMARY KEY,  
    phase VARCHAR)
```

```
CREATE TABLE Match3 (  
    matchID INTEGER PRIMARY KEY,  
    stadiumName VARCHAR,  
    result VARCHAR,  
    date VARCHAR,  
    time VARCHAR,  
    FOREIGN KEY (stadiumNAME)  
        REFERENCES Stadium3(name)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (date)  
        REFERENCES Match2(date))
```

```
CREATE TABLE GoalDetails (  
    playerID INTEGER PRIMARY KEY,  
    matchID INTEGER,  
    goals INTEGER,  
    FOREIGN KEY (matchID)  
        REFERENCES Match3(matchID)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (playerID)  
        REFERENCES Player(playerID)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE)
```

```
goalNumber INTEGER,  
matchID INTEGER,  
playerID INTEGER,  
time VARCHAR,  
Type VARCHAR,  
PRIMARY KEY (goalNumber, matchID),  
FOREIGN KEY (matchID)  
    REFERENCES Match3(matchID)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE,  
FOREIGN KEY (playerID)  
    REFERENCES Player(playerID)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE)
```

```
CREATE TABLE PlayIn (  
    matchID INTEGER,  
    teamID INTEGER,  
    PRIMARY KEY (matchID, teamID),  
    FOREIGN KEY (matchID)  
        REFERENCES Match3(matchID)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (teamID)  
        REFERENCES Team(teamID)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE)
```

This table does not enforce total participation, we will need assertions to enforce this.

```
CREATE TABLE Team (  
    teamID INTEGER PRIMARY KEY,  
    Size INTEGER,  
    countryName VARCHAR,  
    managerID VARCHAR,  
    FOREIGN KEY (countryName)  
        REFERENCES Country(name)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (managerID)  
        REFERENCES Manager(name)
```

ON DELETE CASCADE
ON UPDATE CASCADE)

This Table Team does not enforce total participation onto Player, we will need assertions to enforce this.

```
CREATE TABLE Country(  
    name VARCHAR PRIMARY KEY,  
    ranking INTEGER,  
    teamID INTEGER,  
    FOREIGN KEY (teamID)  
        REFERENCES Team(teamID)  
        ON UPDATE CASCADE  
        ON DELETE SET NULL)
```

```
CREATE TABLE Manager(  
    managerID integer PRIMARY KEY,  
    name VARCHAR,  
    age INTEGER,  
    nationality VARCHAR,  
    teamID INTEGER,  
    FOREIGN KEY (teamID)  
        REFERENCES Team(teamID)  
        ON DELETE CASCADE)
```

```
CREATE TABLE Funds(  
    sponsorID INTEGER,  
    teamID INTEGER  
    PRIMARY KEY (sponsorID, teamID),  
    FOREIGN KEY (teamID)  
        REFERENCES Team(teamID))
```

```
CREATE TABLE Sponsor(  
    sponsorID INTEGER PRIMARY KEY,  
    name VARCHAR)
```

```
CREATE TABLE Player (  
    playerID integer PRIMARY KEY,  
    teamID INTEGER,  
    Passes INTEGER,  
    assists INTEGER,
```

```
name VARCHAR,  
age INTEGER,  
FOREIGN KEY (teamID)  
REFERENCES Team(teamID))
```

```
CREATE TABLE Forward (  
    playerID INTEGER PRIMARY KEY,  
    shots INTEGER,  
    goals INTEGER)
```

```
CREATE TABLE Midfield (  
    playerID INTEGER PRIMARY KEY,  
    tackles INTEGER,  
    shots INTEGER,  
    goals INTEGER,  
    interceptions INTEGER)
```

```
CREATE TABLE Goalkeeper (  
    playerID INTEGER PRIMARY KEY,  
    saves INTEGER)
```

```
CREATE TABLE Defender (  
    playerID INTEGER PRIMARY KEY,  
    tackles INTEGER,  
    shots INTEGER,  
    goals INTEGER,  
    interceptions INTEGER)
```

8. Insert Statements

Stadium

Stadium₂(address: varchar, city: varchar)

Stadium₃(name: varchar, address: varchar, capacity: integer)

1. INSERT

INTO Stadium(address, city)

VALUES('Building Number: 125 Street: 393 Zone: 74', 'Al Khor')

```
INSERT  
INTO Stadium(name, address, capacity)  
VALUES('Al Bayt Stadium', 'Building Number: 125 Street: 393 Zone: 74', 68895)
```

```
2.INSERT  
INTO Stadium(address, city)  
VALUES('Building Number: 660 Street: 235 Zone: 69', 'Lusail')
```

```
INSERT  
INTO Stadium(name, address, capacity)  
VALUES('Lusail Stadium', 'Building Number: 660 Street: 235 Zone: 69', 88966)
```

```
3.INSERT  
INTO Stadium(address, city)  
VALUES('Building Number: 306 Street: 1700 Zone: 51', 'Al Rayyan')
```

```
INSERT  
INTO Stadium(name, address, capacity)  
VALUES('Ahmad bin Ali Stadium', 'Building Number: 306 Street: 1700 Zone: 51',  
45032)
```

```
4.INSERT  
INTO Stadium(address, city)  
VALUES('Building Number: 71 Street: 2741 Zone: 52', 'Al Rayyan')
```

```
INSERT  
INTO Stadium(name, address, capacity)  
VALUES('Education City Stadium', 'Building Number: 71 Street: 2741 Zone: 52', 44667)
```

```
5.INSERT  
INTO Stadium(address, city)  
VALUES('Building Number: 51 Street: 725 Zone: 54', 'Al Rayyan')
```

```
INSERT  
INTO Stadium(name, address, capacity)  
VALUES('Khalifa International Stadium', 'Building Number: 51 Street: 725 Zone: 54',  
45857)
```

```
6.INSERT
```

University of British Columbia, Vancouver

Department of Computer Science

INTO Stadium(address, city)

VALUES('Building Number: 521 Street: 260 Zone: 46', 'Doha')

INSERT

INTO Stadium(name, address, capacity)

VALUES('Al Thumama Stadium', 'Building Number: 521 Street: 260 Zone: 46', 44400)

7.INSERT

INTO Stadium(address, city)

VALUES('Building Number: 161 Street: 210 Zone: 29', 'Doha')

INSERT

INTO Stadium(name, address, capacity)

VALUES('Stadium 974', 'Building Number: 161 Street: 210 Zone: 29', 44089)

8.INSERT

INTO Stadium(address, city)

VALUES('Building Number: 1707 Street: 281 Zone: 91', 'Al Wakrah')

INSERT

INTO Stadium(name, address, capacity)

VALUES('Al Janoub Stadium', 'Building Number: 1707 Street: 281 Zone: 91', 44325)

Match

Match₂(date, phase)

Match₃(matchID, stadiumName, result, date, time)

INSERT

INTO Match₃(matchID, stadiumName, result, date, time)

VALUES(001, 'Al Bayt Stadium', 'Qatar won against Ecuador 2-0', 'Nov 20 2022', '14:00')

INSERT

INTO Match₃(matchID, stadiumName, result, date, time)

VALUES(002, 'Khalifa International Stadium', 'England won against Iran 6-2', 'Nov 21 2022', '14:00')

University of British Columbia, Vancouver

Department of Computer Science

INSERT

INTO Match₃(matchID, stadiumName, result, date, time)

VALUES(003, 'Ahmad bin Ali Stadium', 'USA tied Wales 1-1', 'Nov 21 2022', '14:00')

INSERT

INTO Match₃(matchID, stadiumName, result, date, time)

VALUES(004, 'Lusail Stadium', 'Saudi Arabia won against Argentina 2-1', 'Nov 22 2022', '14:00')

INSERT

INTO Match₃(matchID, stadiumName, result, date, time)

VALUES(005, 'Education City Stadium', 'Croatia tied Brazil 1-1', 'Dec 9 2022', '14:00')

INSERT

INTO Match₂(date, phase)

VALUES('Dec 9 2022', 'Quarter-Finals')

INSERT

INTO Match₂(date, phase)

VALUES('Nov 20 2022', 'Group Stage')

INSERT

INTO Match₂(date, phase)

VALUES('Nov 21 2022', 'Group Stage')

INSERT

INTO Match₂(date, phase)

VALUES('Nov 22 2022', 'Group Stage')

INSERT

INTO Match₂(date, phase)

VALUES('Nov 23 2022', 'Group Stage')

GoalDetails

GoalDetails(goalNumber: integer, matchID: integer, playerID: integer, time: varchar, Type: varchar)

1.INSERT

INTO GoalDetails(goalNumber, matchID, playerID)
VALUES(1, 001, 001)

2. INSERT

INTO GoalDetails(goalNumber, matchID, playerID)
VALUES(2, 001, 002)

3. INSERT

INTO GoalDetails(goalNumber, matchID, playerID)
VALUES(3, 001, 003)

4. INSERT

INTO GoalDetails(goalNumber, matchID, playerID)
VALUES(1, 002, 001)

5. INSERT

INTO GoalDetails(goalNumber, matchID, playerID)
VALUES(2, 002, 004)

PlayIn

PlayIn (matchID: integer, teamID: integer)

1.INSERT

INTO PlayIn (matchID, teamID)
VALUES (001, 001)

2.INSERT

INTO PlayIn (matchID, teamID)
VALUES (002, 002)

3.INSERT

INTO PlayIn (matchID, teamID)

VALUES (003, 003)

4.INSERT
INTO PlayIn (matchID, teamID)
VALUES (004, 004)

5.INSERT
INTO PlayIn (matchID, teamID)
VALUES (005, 005)

6.INSERT
INTO PlayIn (matchID, teamID)
VALUES (006, 006)

7.INSERT
INTO PlayIn (matchID, teamID)
VALUES (007, 007)

Team

Team (teamID: integer, Size: integer, **countryName**: varchar, **managerID**: varchar)

1.INSERT
INTO Team (teamID, Size, countryName, managerID)
VALUES (015, 27, 'Germany', 001)

2.INSERT
INTO Team (teamID, Size, countryName, managerID)
VALUES (001, 27, 'Argentina', 002)

3.INSERT
INTO Team (teamID, Size, countryName, managerID)
VALUES (017, 28, 'Uruguay', 003)

4.INSERT
INTO Team (teamID, Size, countryName, managerID)
VALUES (019, 27, 'Japan', 004)

4.INSERT

```
INTO Team (teamID, Size, countryName, managerID)
VALUES (002, 26, 'France', 005)
```

Country

Country(name: varchar, ranking: integer, teamID: integer)

1.INSERT

```
INTO Country(name, ranking, teamID)
VALUES ('Germany', 15, 015)
```

2.INSERT

```
INTO Country(name, ranking, teamID)
VALUES ('Argentina', 1, 001)
```

3.INSERT

```
INTO Country(name, ranking, teamID)
VALUES ('Uruguay', 17, 017)
```

4.INSERT

```
INTO Country(name, ranking, teamID)
VALUES ('Japan', 19, 019)
```

5.INSERT

```
INTO Country(name, ranking, teamID)
VALUES ('France', 2, 002)
```

6.INSERT

```
INTO Country(name, ranking, teamID)
VALUES ('Brazil', 3, 003)
```

7.INSERT

```
INTO Country(name, ranking, teamID)
VALUES ('Croatia', 6, 006)
```

Manager

Manager(managerID: integer, name: varchar, age: integer, nationality: varchar, **teamID: integer**: integer)

University of British Columbia, Vancouver

Department of Computer Science

INSERT

INTO Manager(managerID, name, age, nationality, teamID)

VALUES(1, 'Hansi Flick', 57, 'German', 1)

INSERT

INTO Manager(managerID, name, age, nationality, teamID)

VALUES(2, 'Lionel Sebastián Scaloni', 44, 'Argentina', 2)

INSERT

INTO Manager(managerID, name, age, nationality, teamID)

VALUES(3, 'Marcelo Bielsa', 67, 'Argentina', 3)

INSERT

INTO Manager(managerID, name, age, nationality, teamID)

VALUES(4, 'Hajime Moriyasu', 54, 'Japan', 4)

INSERT

INTO Manager(managerID, name, age, nationality, teamID)

VALUES(5, 'Didier Claude Deschamps', 54, 'Japan', 5)

Funds

Funds(sponsorID: integer, teamID: integer)

1.INSERT

INTO Funds(sponsorID, teamID)

VALUES(001, 001)

2.INSERT

INTO Funds(sponsorID, teamID)

VALUES(002, 015)

3.INSERT

INTO Funds(sponsorID, teamID)

VALUES(003, 017)

4.INSERT

INTO Funds(sponsorID, teamID)

VALUES(004, 002)

5.INSERT

INTO Funds(sponsorID, teamID)

VALUES(005, 019)

6.INSERT

INTO Funds(sponsorID, teamID)

VALUES(006, 003)

7.INSERT

INTO Funds(sponsorID, teamID)

VALUES(007, 006)

Sponsor

Sponsor(sponsorID: integer, name: varchar)

1.INSERT

INTO Sponsor(sponsorID, name)

VALUES(001, 'Coca-Cola')

2.INSERT

INTO Sponsor(sponsorID, name)

VALUES(002, 'Adidas')

3.INSERT

INTO Sponsor(sponsorID, name)

VALUES(003, 'Byju's')

4.INSERT

INTO Sponsor(sponsorID, name)

VALUES(004, 'Budweiser')

5.INSERT

INTO Sponsor(sponsorID, name)

VALUES(005, 'Wanda')

6. INSERT

INTO Sponsor(sponsorID, name)

VALUES(006, 'SBI')

7.INSERT

INTO Sponsor(sponsorID, name)

VALUES(007, 'Hisense')

Player

Player (playerID, **teamID**, passes: integer, assists: integer, name: varchar, age: integer)

1. INSERT

INTO Player(playerID, teamID, passes, assists, name, age)

VALUES(001, 001, 54, 2, 'Lionel Messi', 35)

2. INSERT

INTO Player(playerID, teamID, passes, assists, name, age)

VALUES(002, 001, 8, 0, 'Paulo Dybala', 30)

3. INSERT

INTO Player(playerID, teamID, passes, assists, name, age)

VALUES(003, 003, 54, 5, 'Kylian Mbappe', 24)

4. INSERT

INTO Player(playerID, teamID, passes, assists, name, age)

VALUES(004, 001, 20, 2, 'Lisandro Martinez', 26)

5. INSERT

INTO Player(playerID, teamID, passes, assists, name, age)

VALUES(007, 002, 54, 2, 'Cristiano Ronaldo', 38)

Forward

Forward (playerID, shots: integer, goals: integer)

1.INSERT

INTO Forward(playerID, shots, goals)

VALUES (001, 20, 3)

2.INSERT

INTO Forward(playerID, shots, goals)

VALUES (002, 25, 4)

3.INSERT

INTO Forward(playerID, shots, goals)

VALUES (003, 27, 5)

4.INSERT

INTO Forward(playerID, shots, goals)

VALUES (004, 30, 2)

5.INSERT

INTO Forward(playerID, shots, goals)

VALUES (005, 35, 1)

6.INSERT

INTO Forward(playerID, shots, goals)

VALUES (006, 10, 1)

7.INSERT

INTO Forward(playerID, shots, goals)

VALUES (007, 21, 2)

Midfield

Midfield (**playerID**, tackles: integer, shots: integer, goals: integer, interceptions: integer)

1.INSERT

INTO Midfield(playerID, tackles, shots, goals, interceptions)

VALUES(020, 5, 10, 0, 13)

2.INSERT

INTO Midfield(playerID, tackles, shots, goals, interceptions)

VALUES(021, 6, 11, 0, 14)

3.INSERT

INTO Midfield(playerID, tackles, shots, goals, interceptions)
VALUES(022, 3, 12, 1, 16)

4.INSERT

INTO Midfield(playerID, tackles, shots, goals, interceptions)
VALUES(023, 12, 3, 0, 19)

5.INSERT

INTO Midfield(playerID, tackles, shots, goals, interceptions)
VALUES(024, 20, 0, 0, 3)

6.INSERT

INTO Midfield(playerID, tackles, shots, goals, interceptions)
VALUES(025, 30, 5, 1, 12)

7.INSERT

INTO Midfield(playerID, tackles, shots, goals, interceptions)
VALUES(026, 8, 15, 2, 7)

Goalkeeper

Goalkeeper (playerID, saves: integer, passes, assists)

1.INSERT

INTO Goalkeeper(playerID, saves, passes, assists)
VALUES(030, 5, 10, 0)

2.INSERT

INTO Goalkeeper(playerID, saves, passes, assists)
VALUES(031, 6, 11, 0)

3.INSERT

INTO Goalkeeper(playerID, saves, passes, assists)
VALUES(032, 3, 12, 1)

4.INSERT

```
INTO Goalkeeper(playerID, saves, passes, assists)
VALUES(033, 12, 3, 0)
```

5.INSERT

```
INTO Goalkeeper(playerID, saves, passes, assists)
VALUES(034, 20, 0, 0)
```

Defender

Defender (playerID, tackles: integer, shots: integer, goals: integer, interceptions: integer)

1.INSERT

```
INTO Defender(playerID, tackles, shots, goals, interceptions)
VALUES(040, 15, 10, 0, 13)
```

2.INSERT

```
INTO Defender(playerID, tackles, shots, goals, interceptions)
VALUES(041,16, 11, 0, 14)
```

3.INSERT

```
INTO Defender(playerID, tackles, shots, goals, interceptions)
VALUES(042, 13, 12, 1, 16)
```

4.INSERT

```
INTO Defender(playerID, tackles, shots, goals, interceptions)
VALUES(043, 22, 3, 0, 19)
```

5.INSERT

```
INTO Defender(playerID, tackles, shots, goals, interceptions)
VALUES(044, 30, 0, 0, 3)
```

6.INSERT

```
INTO Defender(playerID, tackles, shots, goals, interceptions)
VALUES(045, 20, 5, 1, 12)
```

7.INSERT

```
INTO Defender(playerID, tackles, shots, goals, interceptions)
VALUES(046, 18, 15, 2, 7)
```