# Milestone #: 2

# Date: September 23rd 2022

# Group Number: 50

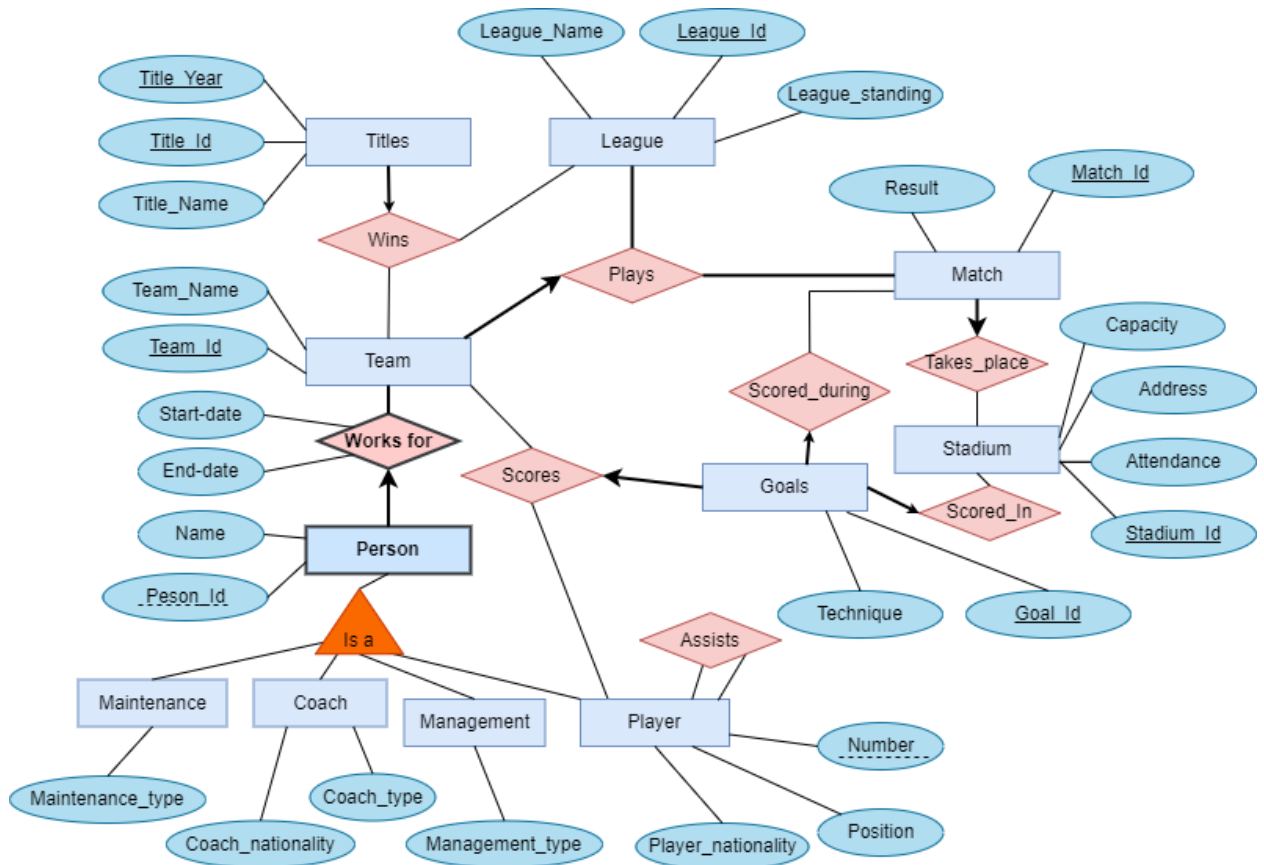| Name | Student Number | CS Alias (Userid) | Preferred Email Address |
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**By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are 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**

1. **ER diagram**



**Notes about changes:**
 - We have removed the concedes goal relationship as it causes confusion and we don't need it, as we will still have >= 7 relationships.
- We have modified assists relationship,  setting it just linked solely to player, as having it linked to player and goal is complicated
- We have removed the Plays 'standing_update' attribute

2. **Schema**

Notes: if you're confused by some of the names, remember in a one to many relationship you merge the relationship with the many side. Hence the 'titles_won' etc..

For goals I'm putting all the relationships its attached to that are one-to-many inside it as said in slides.

Translating weak entity is in slides if confused about the part that says person_worksfor(..)

Look at slides to understand the assists relation.

titles_won(<u>Title_year</u>: integer, <u>Title_id</u>: integer, Title_name: string, **team_id:** integer**, league_id:** integer**)**

team(<u>Team_id</u>: integer, team_name: string)

league(league_name: string, <u>league_id</u>: integer, league_standing: integer)

person_worksfor(<u>person_id</u>: integer, **<u>team_id</u>**: integer, name: string, start-date: date, end-date: date)

maintenance(**<u>person_id</u>**: integer, maintenance_type: string)

coach(**<u>person_id</u>**: integer, coach_nationality: string, coach_type: string)

management (**<u>person_id</u>**: integer, management_type: string)

player(**<u>person_id</u>**: integer, player_nationality: string, position: integer, number: integer)

plays(**<u>team_id</u>**: integer, **<u>match_id</u>**: integer, **<u>league_id</u>**: integer)

match_takesplace(<u>match_id</u>: integer, result: string, **stadium_id**: integer, attendance: integer)

stadium(<u>stadium_id</u>: integer, address: string, capacity: integer)

goals(<u>goal_id</u>: integer, technique: integer, **stadium_id**: integer, **match_id**: integer, **person_id**: integer, **team_id**: integer)

assists(**<u>player_id_assisted</u>**: integer, **<u>player_id_assits</u>**: integer)

3. **FDs**

Title_year, Title_id → League_id, Team_name, League_name, League_standing, title_name

Team_id -> League_id

Team_id → Team_name

League_id → League_name, League_standing

Person_id → name, start_date, end_date

Name →  start_date, end_date

Person_id → Maintainance_type

Person_id →  Team_id

Person_id → Coach_type, Coach_nationality

Person_id → Management_type

Person_id → player_nationality, position, number

Position →  Number

Stadium_id → address, Capacity

Match_id → Result, Stadium_id, Attendance, address, Capacity

Goal_id → technique, stadium_id, match_id, player_id, team_id, Result, Attendance, address, Capacity

4. **Normalization**

**_Titles_won_**

Titles_won(title_year, title_id, title_name, **team_id, league_id)**

FDs**:**
title_year, Title_id → league_id, team_name, league_name, league_standing, title_name
team_id -> League_id

Normalizing

team_id -> League_id violates BCNF, so we decompose Titles_won on this:

Titles_won_2(Title_year, Title_id, Title_name, **team_id)**
Titles_won_3(**team_id, league_id)**

Now we have BCNF.

**_Team_**

Team(team_id, team_name)

Already in BCNF we have two attributes.

**_League_**

League(league_name, league_id, league_standing)

FDs
League_id → League_name, League_standing

In BCNF as we have our only League_Id being a superkey for league.

**_Person_Works_For_**

Person_Works_For(person_id, **team_id**, name, start-date, end-date)

FDs
person_id, team_id -> name, start-date, end-date
name -> start, end

Normalizing
Name -> start, end violates BCNF as it is not a superkey, so we decompose using it and we get:

Person_Works_For_2(person_id, **team_id**, **name**)

Person_Works_For_3(<u>name</u>, start-date, end-date)

Now we have BCNF.

### *Maintenance*
Maintenance(**<u>person_id</u>**, maintenance_type)

Already in BCNF

### *Coach*
Coach(**<u>person_id</u>**, coach_nationality, coach_type)

person_id -> coach_nationality, coach_type

Already in BCNF

### *Management*
Management (**<u>person_id</u>**, management_type)

Already in BCNF

### *Player*
Player(**<u>person_id</u>**, player_nationality, position, number)

<u>FDs</u>
Person_id -> player_nationality, position, number
Position -> number

<u>Normalizing</u>
Position -> number violates BCNF so we decompose using it, and we get:

Player_2(**<u>person_id</u>**, player_nationality, **position**)
Player_3(<u>position</u>, number)

Which is now in BCNF

### *Plays*
Plays(**<u>team_id</u>**, **<u>match_id</u>**, **<u>league_id</u>**)

<u>FDs</u>
All attributes are PK so other FD is trivial.
Team_id -> League_id

Normalization

The FD: Team_id -> League_id, violates BCNF so we decompose:

Plays_2(**team_id**, **league_id**)
Plays_3(**team_id**, **match_id**)

This is now in BCNF

### *Match_Takes_Place*

Match_Takes_Place(match_id, result, attendance, **stadium_id**)

FDs
Match_id -> result, stadium_id, attendance

This is in BCNF

### *Stadium*

Stadium(stadium_id, address, capacity)

FDs
Stadium_id → address, Capacity

Already in BCNF

### *Goals*

Goals(goal_id, technique, **stadium_id**, **match_id**, **person_id**, **team_id**)

FDs
goal_id → technique, stadium_id, match_id, person_id, team_id
match_id -> stadium_id
person_id -> team_id

Normalizing
person_id -> team_id violates BCNF so we decompose and get:

Goals_2(goal_id, technique, **stadium_id**, **match_id**, **person_id**)
Goals_3(**person_id**, **team_id**)

However goals_2 is still not in BCNF as Match_id -> stadium_id violates it, so we decompose again and we get:

Goals_4(goal_id, technique, **match_id**, **person_id**)
Goals_5(**stadium_id**, match_id)

Now we are in BCNF, and our final decomposed relations are goals_3, goals_4, and goals_5.

### *Assists*
Assists(**player_id_assisted**, **player_id_assits**)

In BCNF

**5. SQL DDL Statements**

- CREATE TABLE Titles_Won_2 (
  | | |
  |---|---|
  | title_id | INTEGER |
  | title_year | INTEGER |
  | title_name | VARCHAR(50) |
  | team_id | INTEGER |

  **PRIMARY KEY** (title_id, title_year)
  **FOREIGN KEY** (team_id) **REFERENCES** Team(team_id)
  )
- CREATE TABLE Titles_Won_3 (
  | | |
  |---|---|
  | team_id | INTEGER |
  | league_id | INTEGER |

  **PRIMARY KEY** (team_id, league_id)
  **FOREIGN KEY** (team_id) **REFERENCES** Team(team_id)
  **FOREIGN KEY** (league_id) **REFERENCES** League(league)
  )
- CREATE TABLE Team (
  | | |
  |---|---|
  | team_id | INTEGER |
  | team_name | VARCHAR(50) |

  **PRIMARY KEY** (team_id)
  **UNIQUE** (team_name)
  )

- CREATE TABLE League (
  | | |
  |---|---|
  | league_id | INTEGER |
  | league_name | VARCHAR(50) |
  | league_standing | VARCHAR(3000) |

  **PRIMARY KEY** (league_id)
  **UNIQUE** (league_name)
  )
- CREATE TABLE Person_Works_For_2 (
  | | |
  |---|---|
  | person_id | INTEGER |
  | team_id | INTEGER |
  | name | VARCHAR(50) |

  **PRIMARY KEY** (person_id, team_id)
  **UNIQUE** (name)
  **FOREIGN KEY** (team_id) **REFERENCES** Team(team_id)

        **FOREIGN KEY** (name) **REFERENCES** Person_Works_For_3(name)

        )

- CREATE TABLE Person_Works_For_3 (
  
      name                    VARCHAR(50)
  
      start-date           DATE
  
      end_date            DATE
  
      **PRIMARY KEY** (name)
  
      )

- CREATE TABLE Maintenance (
  
      person_id           INTEGER
  
      maintenance_type    VARCHAR(20)
  
      **PRIMARY KEY** (person_id)
  
      **FOREIGN KEY** (person_id) **REFERENCES** Person_Works_For_2(person_id)
  
      )

- CREATE TABLE Coach (
  
      person_id           INTEGER
  
      coach_nationality    VARCHAR(20)
  
      coach_type         VARCHAR(20)
  
      **PRIMARY KEY** (person_id)
  
      **FOREIGN KEY** (person_id) **REFERENCES** Person_Works_For_2(person_id)
  
      )

- CREATE TABLE Management (
  
      person_id           INTEGER
  
      management_type    VARCHAR(20)
  
      **PRIMARY KEY** (person_id)
  
      **FOREIGN KEY** (person_id) **REFERENCES** Person_Works_For_2(person_id)
  
      )

- CREATE TABLE Player_2 (
  
      person_id           INTEGER
  
      position            VARCHAR(20)
  
      player_nationality    VARCHAR(20)
  
      **PRIMARY KEY** (person_id)
  
      **FOREIGN KEY** (person_id) **REFERENCES** Person_Works_For_2(person_id)
  
      **FOREIGN KEY** (position) **REFERENCES** Player_3(position)
  
      )

- CREATE TABLE Player_3 (
  
      position            VARCHAR(3)
  
      number             INTEGER

        **PRIMARY KEY** (position)

        )

- ○ CREATE TABLE Plays_2 (

        team_id                INTEGER

        league_id           INTEGER

        **PRIMARY KEY** (team_id)

        **FOREIGN KEY** (team_id) **REFERENCES** Team(team_id)

        **FOREIGN KEY** (league_id) **REFERENCES** League(league_id)

        )

- CREATE TABLE Plays_3 (

        team_id                INTEGER

        match_id           INTEGER

        **PRIMARY KEY** (team_id, match_id)

        **FOREIGN KEY** (team_id) **REFERENCES** Team(team_id)

        **FOREIGN KEY** (match_id) **REFERENCES** Match(match_id)

        )

- CREATE TABLE Match_Takes_Place (

        match_id           INTEGER

        result               VARCHAR(5)

        stadium_id         INTEGER

        attendance       INTEGER

        **PRIMARY KEY** (match_id)

        **FOREIGN KEY** (stadium_id) **REFERENCES** Stadium(stadium_id)

        )

- CREATE TABLE Stadium (

        stadium_id         INTEGER

        address            VARCHAR(200)

        capacity           INTEGER

        **PRIMARY KEY** (stadium_id)

        )

- CREATE TABLE Goal_3 (

        person_id           INTEGER

        team_id                INTEGER

        **PRIMARY KEY** (person_id)

        **FOREIGN KEY** (person_id) **REFERENCES** Person_Works_For_2(person_id)

        **FOREIGN KEY** (team_id) **REFERENCES** Team(team_id)

        )

- CREATE TABLE Goal_4 (
    goal_id          INTEGER
    technique        VARCHAR(20)
    match_id         INTEGER
    person_id        INTEGER

    **PRIMARY KEY** (goal_id)
    **FOREIGN KEY** (person_id) **REFERENCES** Person_Works_For_2(person_id)
    **FOREIGN KEY** (match_id) **REFERENCES** Match(match_id)
    )
- CREATE TABLE Goal_5 (
    stadium_id       INTEGER
    match_id         INTEGER

    **PRIMARY KEY** (match_id)
    **FOREIGN KEY** (stadium_id) **REFERENCES** Stadium(stadium_id)
    **FOREIGN KEY** (match_id) **REFERENCES** Match(match_id)
    )
- CREATE TABLE Assists (
    person_id_assisted   INTEGER
    person_id_assists    INTEGER

    **PRIMARY KEY** (person1_id, person2_id)
    **FOREIGN KEY** (person_id_assisted) **REFERENCES**
Person_Works_For_2(person_id)
    **FOREIGN KEY** (person_id_assists) **REFERENCES**
Person_Works_For_2(person_id)
    )

6. **SQL INSERT Statements**
- Leagues
    INSERT INTO League(league_name, <u>league_id,</u> league_standing)
    VALUES ('La Liga Santander', 01, null')

    INSERT INTO League(league_name, <u>league_id,</u> league_standing)
    VALUES ('Premier League', 02, null')

    INSERT INTO League(league_name, <u>league_id,</u> league_standing)
    VALUES ('Serie A', 03, null')

    INSERT INTO League (league_name, <u>league_id,</u> league_standing)
    VALUES ('Bundesliga', 04, null')

INSERT INTO League(league_name, league_id, league_standing)
VALUES ('Ligue 1', 05, null')

- Teams

  INSERT INTO Team(team_id, team_name)
  VALUES (01, 'FC Barcelona')

  INSERT INTO Team(team_id, team_name)
  VALUES (02, 'Real Madrid CF')

  INSERT INTO Team(team_id, team_name)
  VALUES (03, 'Club Atlético de Madrid')

  INSERT INTO Team(team_id, team_name)
  VALUES (04 'Sevilla FC')

  INSERT INTO Team(team_id, team_name)
  VALUES (05, 'Valencia CF')

  INSERT INTO Team(team_id, team_name)
  VALUES (06, 'Manchester City FC')

  INSERT INTO Team(team_id, team_name)
  VALUES (07, 'Liverpool FC')

  INSERT INTO Team(team_id, team_name)
  VALUES (08, 'Manchester United FC')

  INSERT INTO Team(team_id, team_name)
  VALUES (09 'Chelsea FC')

  INSERT INTO Team(team_id, team_name)
  VALUES (10, 'Arsenal FC')

  INSERT INTO Team(team_id, team_name)
  VALUES (11, 'FC Bayern München')

  INSERT INTO Team(team_id, team_name)
  VALUES (12, 'Borussia Dortmund')

  INSERT INTO Team(team_id, team_name)
  VALUES (13, 'Bayer 04 Leverkusen')

INSERT INTO Team(team_id, team_name)
VALUES (14 'Eintracht Frankfurt FC')

INSERT INTO Team(team_id, team_name)
VALUES (15, 'RB Leipzig')

INSERT INTO Team(team_id, team_name)
VALUES (16, 'Juventus FC')

INSERT INTO Team(team_id, team_name)
VALUES (17, 'AC Milan')

INSERT INTO Team(team_id, team_name)
VALUES (18, 'FC Internazionale Milano')

INSERT INTO Team(team_id, team_name)
VALUES (19 'AS Roma')

INSERT INTO Team(team_id, team_name)
VALUES (20, 'SSC Napoli')

INSERT INTO Team(team_id, team_name)
VALUES (21, 'París Saint-Germain FC')

INSERT INTO Team(team_id, team_name)
VALUES (22, 'Olympique de Lyon ')

INSERT INTO Team(team_id, team_name)
VALUES (23, 'AS Monaco FC')

INSERT INTO Team(team_id, team_name)
VALUES (24 'Olympique de Marseille')

INSERT INTO Team(team_id, team_name)
VALUES (25, 'Lille OSC')

- Persons
    INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
    VALUES (001, 21, "Lionel Andrés Messi")

    INSERT INTO Person_Works_For_3(name, start-date, end-date)
    VALUES ("Lionel Andrés Messi", '08-10-2021', '06-30-2023')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (002, 08, "Cristiano Ronaldo")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Cristiano Ronaldo", '08-29-2021', '06-30-2024')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (003, 21, "Neymar Junior")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Neymar Junior", '07-30-2017', '06-30-2025')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (004, 21, "Kylian Mbappe")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Kylian Mbappe", '08-07-2017', '06-30-2024')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (005, 01, "Robert Lewandowski")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Robert Lewandowski", '08-25-2022', '06-30-2025')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (006, 01, "Pedri")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Pedri", '08-01-2020', '06-30-2027')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (007, 01, "Ousmane Dembélé")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Ousmane Dembélé", '08-30-2017', '06-30-2024')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (008, 01, "Marc André Ter Stegen")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Marc André Ter Stegen", '08-02-2014', '06-30-2026')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (009, 02, "Karim Benzema")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Karim Benzema", '08-13-2009', '06-30-2026')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (010, 02, "Vinicius Junior")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Vinicius Junior", '07-15-2018', '06-30-2026')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (011, 02, "Thibaut Courtois")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Thibaut Courtois", '09-01-2018', '06-30-2027')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (700, 02, "Lucas Amar")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Lucas Amar", '10-20-2022', '10-30-2022')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (701, 21, "Steven Slater")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Lucas Amar", '10-20-2022', '11-30-2022')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (600, 01, "David Pérez Carrasco")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("David Pérez Carrasco", '10-20-2022', '10-30-2032')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (702, 01, "Arnau Martí")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Arnau Martí", '10-20-2022', '10-30-2042')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)

VALUES (703, 16, "Jon Villabona")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Jon Villabona", '10-20-2022', '10-30-2025')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (704, 06, "Dwayne Johnson")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Dwayne Johnson", '10-20-2020', '10-30-2024')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (601, 21, "Elon Musk")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Elon Musk", '07-15-2019', '10-30-2027')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (602, 02, "Florentino Pérez")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Florentino Pérez", '07-20-2009', '10-30-2030')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (603, 03, "Enrique Cerezo")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Enrique Cerezo", '10-20-2012', '10-30-2028')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (604, 25, "Pedro Sánchez")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Pedro Sánchez", '10-20-2021', '10-30-2025')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (500, 01, "Xavi Hernández")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Xavi Hernández", '10-27-2021', '10-30-2026')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (501, 02, "Carlo Ancelotti")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Carlo Ancelotti", '08-20-2020', '10-30-2027')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (502, 06, "Josep Guardiola")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Josep Guardiola", '07-10-2017', '10-30-2027')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (503, 03, "Diego Pablo Simeone")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Diego Pablo Simeone", '08-02-2008', '10-30-2027')

INSERT INTO Person_Works_For_2(person_id, **team_id**, name)
VALUES (504, 13, "Xabi Alonso")

INSERT INTO Person_Works_For_3(name, start-date, end-date)
VALUES ("Xabi Alonso", '08-01-2022', '10-30-2027')


- Player Positions

    INSERT INTO Player_3(position, number)
    VALUES ("GK", 1)

    INSERT INTO Player_3(position, number)
    VALUES ("RB", 2)

    INSERT INTO Player_3(position, number)
    VALUES ("CB", 3)

    INSERT INTO Player_3(position, number)
    VALUES ("LB", 4)

    INSERT INTO Player_3(position, number)
    VALUES ("CDM", 5)

    INSERT INTO Player_3(position, number)
    VALUES ("CM", 6)

INSERT INTO Player_3(position, number)
VALUES ("LW", 11)

INSERT INTO Player_3(position, number)
VALUES ("CAM", 8)

INSERT INTO Player_3(position, number)
VALUES ("ST", 9)

INSERT INTO Player_3(position, number)
VALUES ("RW", 10)

- Players

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (001, "Argentina", "RW")

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (002, "Portugal", "ST")

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (003, "Brazil", "LW")

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (004, "France", "ST")

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (005, "Poland", "ST")

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (006, "Spain", "CAM")

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (007, "France", "LW")

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (008, "Germany", "GK")

  INSERT INTO Player_2(**person_id**, player_nationality, position)
  VALUES (009, "France", "ST")

  INSERT INTO Player_2(**person_id**, player_nationality, position)

VALUES (010, "Brazil", "LW")

INSERT INTO Player_2(**person_id**, player_nationality, position)
VALUES (011, "Belgium", "GK")

- Maintenance

    INSERT INTO Maintenance(**person_id**, maintenance_type)
    VALUES (700, "Cleaning")

    INSERT INTO Maintenance(**person_id**, maintenance_type)
    VALUES (701, "IT Maintenance")

    INSERT INTO Maintenance(**person_id**, maintenance_type)
    VALUES (702, "Maintaining Training material")

    INSERT INTO Maintenance(**person_id**, maintenance_type)
    VALUES (703, "IT Maintenance")

    INSERT INTO Maintenance(**person_id**, maintenance_type)
    VALUES (704, "Gym Maintaining")

- Management

    INSERT INTO Management (**person_id**, management_type)
    VALUES (600, "President-Manager")

    INSERT INTO Management (**person_id**, management_type)
    VALUES (601, "CEO")

    INSERT INTO Management (**person_id**, management_type)
    VALUES (602, "President")

    INSERT INTO Management (**person_id**, management_type)
    VALUES (603, "President")

    INSERT INTO Management (**person_id**, management_type)
    VALUES (604, "Manager")

- Management

    INSERT INTO Coach(**person_id**, coach_nationality, coach_type)
    VALUES (500, "Spain", "Possession")

    INSERT INTO Coach(**person_id**, coach_nationality, coach_type)
    VALUES (501, "Italy", "Counter-Attack")

    INSERT INTO Coach(**person_id**, coach_nationality, coach_type)
    VALUES (502, "Spain", "Possession")

    INSERT INTO Coach(**person_id**, coach_nationality, coach_type)
    VALUES (503, "Spain", "Defensive")

    INSERT INTO Coach(**person_id**, coach_nationality, coach_type)
    VALUES (504, "Spain", "Long Passes")

- Stadiums

    INSERT INTO Stadium(stadium_id, address, capacity)
    VALUES (01, "C. d'Arístides Maillol, 12, 08028 Barcelona, España", 99 354)

    INSERT INTO Stadium(stadium_id, address, capacity)
    VALUES (02, "Av. de Concha Espina, 1, 28036 Madrid, España", 81 044)

    INSERT INTO Stadium(stadium_id, address, capacity)
    VALUES (03, "Sir Matt Busby Way, Old Trafford, Stretford, Manchester M16 0RA,
        England", 74 310)

    INSERT INTO Stadium(stadium_id, address, capacity)
    VALUES (04, "24 Rue du Commandant Guilbaud, 75016 Paris, France", 47 929)

    INSERT INTO Stadium(stadium_id, address, capacity)
    VALUES (05, "Piazzale Angelo Moratti, 20151, Milán", 80.018)

- Stadiums

    INSERT INTO Titles_won_2(Title_year, Title_id, Title_name, **team_id)**
    VALUES (2022, 01, "Trofeo de La Liga", 02)

    INSERT INTO Titles_won_3(**team_id, league_id)**
    VALUES (02,01)

INSERT INTO Titles_won_2(Title_year, Title_id, Title_name, **team_id)**
VALUES (2021, 01, "Trofeo de La Liga", 03)

INSERT INTO Titles_won_3(**team_id, league_id)**
VALUES (03,01)

INSERT INTO Titles_won_2(Title_year, Title_id, Title_name, **team_id)**
VALUES (2019, 01, "Trofeo de La Liga", 01)

INSERT INTO Titles_won_3(**team_id, league_id)**
VALUES (01,01)

INSERT INTO Titles_won_2(Title_year, Title_id, Title_name, **team_id)**
VALUES (2022, 02, "Premier League Trophy", 06)

INSERT INTO Titles_won_3(**team_id, league_id)**
VALUES (06,02)

INSERT INTO Titles_won_2(Title_year, Title_id, Title_name, **team_id)**
VALUES (2022, 05, "Ligue 1 Trophée", 21)

INSERT INTO Titles_won_3(**team_id, league_id)**
VALUES (21,05)

INSERT INTO Titles_won_2(Title_year, Title_id, Title_name, **team_id)**
VALUES (2022, 04, "Bundesliga Trophäe", 11)

INSERT INTO Titles_won_3(**team_id, league_id)**
VALUES (11,04)

INSERT INTO Titles_won_2(Title_year, Title_id, Title_name, **team_id)**
VALUES (2022, 03, "Trofeo di Serie A", 17)

INSERT INTO Titles_won_3(**team_id, league_id)**
VALUES (17,03)

- Matches

  INSERT INTO Match_Takes_Place(match_id, result, attendance, **stadium_id**)
  VALUES (001, "00-04", 93 472, 02)

  INSERT INTO Plays_2(**team_id, league_id**)
  VALUES (01, 01)

INSERT INTO Plays_2(**team_id**, **league_id**)
VALUES (02, 01)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (02, 001)
INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (01, 001)

INSERT INTO Match_Takes_Place(match_id, result, attendance, **stadium_id**)
VALUES (002, "01-04", 87 472, 03)

INSERT INTO Plays_2(**team_id**, **league_id**)
VALUES (03, 01)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (03, 002)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (01, 002)

INSERT INTO Match_Takes_Place(match_id, result, attendance, **stadium_id**)
VALUES (003, "03-01", 73 431, 03)

INSERT INTO Plays_2(**team_id**, **league_id**)
VALUES (08, 02)

INSERT INTO Plays_2(**team_id**, **league_id**)
VALUES (10, 02)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (08, 0 3)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (08, 0 3)

INSERT INTO Match_Takes_Place(match_id, result, attendance, **stadium_id**)
VALUES (004, "00-00", 76 431, 05)

INSERT INTO Plays_2(**team_id**, **league_id**)
VALUES (17, 03)

INSERT INTO Plays_2(**team_id**, **league_id**)

VALUES (18, 03)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (17, 004)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (18, 003)

INSERT INTO Match_Takes_Place(match_id, result, attendance,  **stadium_id**)
VALUES (005, "03-00", 43 431, 04)

INSERT INTO Plays_2(**team_id**, **league_id**)
VALUES (21, 05)

INSERT INTO Plays_2(**team_id**, **league_id**)
VALUES (22, 05)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (21, 005)

INSERT INTO Plays_3(**team_id**, **match_id**)
VALUES (22, 005)


- Goals

    INSERT INTO Goals_3(**person_id**, **team_id**)
    VALUES (01, 21)

    INSERT INTO Goals_4(goal_id, technique, **match_id**, **person_id**)
    VALUES (01, "Solo Goal", 005, 01)

    INSERT INTO Goals_5(**stadium_id**, **match_id**)
    VALUES (04, 005)


    INSERT INTO Goals_3(**person_id**, **team_id**)
    VALUES (01, 21)

    INSERT INTO Goals_4(goal_id, technique, **match_id**, **person_id**)
    VALUES (02, "Volley", 005, 01)

    INSERT INTO Goals_5(**stadium_id**, **match_id**)

VALUES (04, 005)

INSERT INTO Assists(**player_id_assisted**, **player_id_assits**)
VALUES (01, 03)

INSERT INTO Goals_3(**person_id**, **team_id**)
VALUES (04, 21)

INSERT INTO Goals_4(goal_id, technique, **match_id**, **person_id**)
VALUES (03, "Header", 005, 04)

INSERT INTO Goals_5(**stadium_id**, **match_id**)
VALUES (04, 005)

INSERT INTO Assists(**player_id_assisted**, **player_id_assits**)
VALUES (04, 01)

INSERT INTO Goals_3(**person_id**, **team_id**)
VALUES (05, 01)

INSERT INTO Goals_4(goal_id, technique, **match_id**, **person_id**)
VALUES (04, "Header", 001, 05)

INSERT INTO Goals_5(**stadium_id**, **match_id**)
VALUES (02, 001)

INSERT INTO Assists(**player_id_assisted**, **player_id_assits**)
VALUES (05, 06)

INSERT INTO Goals_3(**person_id**, **team_id**)
VALUES (05, 01)

INSERT INTO Goals_4(goal_id, technique, **match_id**, **person_id**)
VALUES (05, "Long Shot", 001, 05)

INSERT INTO Goals_5(**stadium_id**, **match_id**)
VALUES (02, 001)

INSERT INTO Assists(**player_id_assisted**, **player_id_assits**)
VALUES (05, 07)

INSERT INTO Goals_3(**person_id**, **team_id**)
VALUES (01, 21)

INSERT INTO Goals_4(goal_id, technique, **match_id**, **person_id**)
VALUES (01, "Solo Goal", 005, 01)

INSERT INTO Goals_5(**stadium_id**, **match_id**)
VALUES (04, 005)

INSERT INTO Assists(**player_id_assisted**, **player_id_assits**)
VALUES (001, "00-04", 93 472, 02)


INSERT INTO Goals_3(**person_id**, **team_id**)
VALUES (07, 01)

INSERT INTO Goals_4(goal_id, technique, **match_id**, **person_id**)
VALUES (06, "Volley", 001, 07)

INSERT INTO Goals_5(**stadium_id**, **match_id**)
VALUES (02, 001)

INSERT INTO Assists(**player_id_assisted**, **player_id_assits**)
VALUES (07, 06)