

```
CREATE TABLE Teams (  
team_id SERIAL PRIMARY KEY,  
team_name CHAR(50) NOT NULL,  
stadium_id INT NOT NULL,  
city char(50) NOT NULL  
);
```

```
CREATE TABLE Stadiums (  
stadium_id SERIAL PRIMARY KEY,  
stadium_name char(50) NOT NULL,  
team_id INT NOT NULL REFERENCES Teams (team_id)  
);
```

```
ALTER TABLE Teams ADD  
CONSTRAINT fk_Teams_Stadiums FOREIGN KEY (stadium_id) REFERENCES Stadiums  
(stadium_id);
```

```
CREATE TABLE Coaches (  
coach_id SERIAL PRIMARY KEY,  
first_name char(20) NOT NULL,  
last_name char(20) NOT NULL,  
team_id INT NOT NULL REFERENCES Teams (team_id)  
);
```

```
CREATE TABLE Positions (  
position_id SERIAL PRIMARY KEY,  
name char(20) NOT NULL  
);
```

```
CREATE TABLE Players (  
    player_id SERIAL PRIMARY KEY,  
    first_name char(20) NOT NULL,  
    last_name char(20) NOT NULL,  
    position_id INT NOT NULL REFERENCES Positions (position_id),  
    team_id INT NOT NULL REFERENCES Teams(team_id)  
);
```

```
CREATE TABLE Players_Statistics (  
    player_statistic_id SERIAL PRIMARY KEY,  
    player_id INT NOT NULL REFERENCES Players (player_id),  
    goals INT NOT NULL DEFAULT 0,  
    assists INT NOT NULL DEFAULT 0,  
    yellow_vards INT NOT NULL DEFAULT 0,  
    red_cards INT NOT NULL DEFAULT 0,  
    clean_sheet INT NOT NULL DEFAULT 0  
);
```

```
CREATE TABLE Referees (  
    referee_id SERIAL PRIMARY KEY,  
    first_name char(20) NOT NULL,  
    last_name char(20) NOT NULL  
);
```

```
CREATE TABLE Matches (  
    match_id SERIAL PRIMARY KEY,  
    home_team_id INT NOT NULL REFERENCES Teams (team_id),
```

```
away_team_id INT NOT NULL REFERENCES Teams (team_id),
home_team_score INT DEFAULT 0,
away_team_score INT DEFAULT 0,
match_date DATE,
stadium_id INT NOT NULL REFERENCES Stadiums (stadium_id)
);
```

```
CREATE TABLE Match_Referees (
match_id INT NOT NULL REFERENCES Matches (match_id),
referee_id INT NOT NULL REFERENCES Referees (referee_id),
PRIMARY KEY(match_id, referee_id)
);
```

FUNKCJE:

Dodawanie:

```
CREATE FUNCTION add_player(
    p_first_name CHAR(20),
    p_last_name CHAR(20),
    p_position CHAR(20),
    p_team_id INT
)
RETURNS VOID AS $$
BEGIN
    INSERT INTO Players (first_name, last_name, position, team_id)
    VALUES (p_first_name, p_last_name, p_position, p_team_id);
END;
```

```
$$ LANGUAGE plpgsql;
```

Usuwanie:

```
CREATE FUNCTION delete_player(p_player_id INT)
```

```
RETURNS VOID AS $$
```

```
BEGIN
```

```
    DELETE FROM Players WHERE player_id = p_player_id;
```

```
END;
```

```
$$ LANGUAGE plpgsql;
```

Edycja:

```
CREATE FUNCTION update_player(
```

```
    p_player_id INT,
```

```
    p_first_name CHAR(20),
```

```
    p_last_name CHAR(20),
```

```
    p_position CHAR(20),
```

```
    p_team_id INT
```

```
)
```

```
RETURNS VOID AS $$
```

```
BEGIN
```

```
    UPDATE Players
```

```
    SET first_name = p_first_name,
```

```
        last_name = p_last_name,
```

```
        position = p_position,
```

```
        team_id = p_team_id
```

```
    WHERE player_id = p_player_id;
```

```
END;
```

```
$$ LANGUAGE plpgsql;
```

