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;