CPSC 304 Project Cover Page

Milestone #: 2

Date: October 20, 2023

Group Number: 2

Name	Student Number	CS Alias (UserID)	Preferred Email Address
Fei Sam	54784566	j3h1r	feisam@student.ubc.ca
Matthew Mung	73250979	o6v3c	matthewmung3@gmail.com
Patrick Hong	44074623	g6z4h	phong21@student.ubc.ca

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 email 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.

Project Summary –

The focus of our project will be a sports management system, particularly for FIFA Soccer (Football) which can track various entities and attributes throughout the league. We make use of an ISA by splitting `People` entities in our database into { Athlete, Coach, Referee }, of which we can observe their team, awards, statistics, etc. as applicable.

Updated ER Diagram –

Our ER Diagram is attached on the *last page of this document* (this way, a landscape orientation for easier viewing is available). We made a few changes from our milestone 1 submission:

- Added 3 one-to-many relationships for:
  - Athlete (many) to Team (one) ← 'if I know the athlete, I know the team"
  - Coach (many) to Team (one)
  - Team (many) to Venue (one) ← this is to represent a home venue for a team
  (These were implemented thanks to TA feedback on milestone 1!)

- Changed naming convention to better reflect our DDL:
  - Entities follow CamelCase
  - Relationships follow CamelCase
  - Attributes follow snake_case

- Removed some attributes that are better represented as foreign keys
  - Ex. the `current_team` attribute in Athlete as it will be handled by the relationship `PlaysFor` between Team and Athlete
  - Ex. the `location` attribute in Event will be handled by the relationship `LocatedIn` between Event and Venue, so it can also be removed

The Schema –

Schema for Entities

Person(person_id: int, name: varchar(100), birthdate: date, phone_number: int, email: varchar(100), address: varchar(100), height: float, weight: float, date_started: date, years_experience: int, age: int)

PK: person_id
CK: email, phone_number

Athlete(**person_id: int**, jersey_num: int, **current_team: varchar(100)**, salary: int, position: varchar(100))

NOTNULL: current_team

Coach(**person_id: int**, **current_team: varchar(100),** specialization: varchar(100))

NOTNULL: current_team

Referee(**person_id: int**, certification_level: int)

Statistics(stats_id: int, **person_id: int**, goals: int, shots_taken: int, shot_accuracy: float, games_played: int, passes_attempted: int, turnovers: int, passing_percent: float, possession_percent: float)

NOTNULL: person_id
UNIQUE: person_id

Awards(award_id: int, year: int, award_name: varchar(100))

Sponsor(sponsor_name: varchar(100), sponsor_email: varchar(100), money_granted: int)

CK: sponsor_email

Venue(venue_address: varchar(100), venue_name: varchar(100), capacity: int)

CK: venue_name

Event(event_id: int, event_name: varchar(100), event_date: date)

Team(team_name: varchar(100), team_owner: varchar(100), **home_venue_address: varchar(100)**)

NOTNULL: home_venue_address

Injury(**person_id: int**, injury_type: varchar(100), injury_date: date, injury_status: bool)

Schema for Relationships

PlaysFor(**person_id: int, team_name: varchar(100)**)
Coaches(**person_id: int, team_name: varchar(100)**)
ParticipatesIn(**team_name: varchar(100), event_id: int**)
LocatedIn(**event_id: int, venue_address: varchar(100)**)
HasSponsor(**team_name: varchar(100), sponsor_name: varchar(100)**)
GivenBy(**sponsor_name: varchar(100), award_id: int**)
WinsAward(**award_id: int**, person_id: int, team_name: varchar(100))

Functional Dependencies –

Person:	person_id → name, birthdate, phone_number, email, address, height, weight, date_started, years_experience, age (PK) email -> person_id, name, birthdate, phone_number, address, height, weight, date_started, years_experience, age (CK) phone_number -> person_id, name, birthdate, email, address, height, weight, date_started, years_experience, age (CK) birthdate → age date_started → years_experience
Athlete:	person_id → jersey_num, current_team, salary, position (PK) jersey_num → position
Coach:	person_id → current_team, specialization (PK)
Referee:	person_id → certification_level (PK)

Statistics:	stats_id → person_id, goals, shots_take, shot_accuracy, games_played, passes_attempted, turnovers, passing_percent, possession_percent (PK) shots_take, shot_accuracy → goals passes_attempted & turnovers → passing_percent
Awards:	award_id → award_name, year (PK)
Sponsor:	sponsor_name → sponsor_email, money_granted (PK) sponsor_email → sponsor_name, money_granted (CK)
Venue:	venue_address → venue_name, capacity (PK) venue_name → venue_address, capacity (CK)
Event:	event_id → event_name, event_date (PK)
Team:	team_name → team_owner, home_venue_address (PK)
Injury:	person_id → injury_type, injury_date, injury_status (PK)

Normalization –

There are 3 entities of interest for normalization in BCNF:

FDs for Person:
- person_id → name, birthdate, phone_number, email, address, Height, Weight, date_started, years_experience, age
- email → person_id, name, birthdate, phone_number, address, height, weight, date_started, years_experience, age
- phone_number → person_id, name, birthdate, email, address, height, weight, date_started, years_experience, age
- birthdate → Age
- date_started → years_experience

Schema:

Person(person_id, Name, birthdate, phone_number, email, address, Height, Weight, date_started, years_experience, Age)

Key: person_id
===

i) Decomp Person(person_id, Name, …) on birthdate → Age

R1 (birthdate, Age)
R2 (person_id, Name, birthdate, phone_number, email, address, Height, Weight, date_started, years_experience)
===

ii) Decomp R2 on date_started → years_experience

R3 (date_started, years_experience)
R4 (person_id, Name, birthdate, phone_number, email, address, Height, Weight, date_started)
===

iii) Now in BCNF:

R1 (birthdate, Age)
R3 (date_started, years_experience)
R4 (person_id, Name, **birthdate**, phone_number, email, address, height, weight, **date_started**)

R1 → AgeDetails
R3 → ExperienceDetails
R4 → Person

FDs for Statistics:
- stats_id → person_id, goals, shots_taken, shot_accuracy, games_played, passes_attempted, turnovers, passing_percent, possession_percent
- Goal, shots_taken → shot_accuracy
- passes_attempted, turnovers → passing_percent

Schema:
Statistics(stats_id, person_id, goals, shots_taken, shot_accuracy, games_played, passes_attempted, turnovers, passing_percent, possession_percent)

Key: stats_id

i) Decomp Statistics(stats_id, person_id, goals…) on goals, shots_taken→ shot_accuracy

R1 (goals, shots_taken, shot_accuracy)
R2 (stats_id, person_id, goals, shots_taken, games_played, passes_attempted, turnovers, passing_percent, possession_percent)
===

ii) Decomp R2 on passes_attempted, turnovers → passing_percent

R3 (passes_attempted, turnovers, passing_percent)
R4 (stats_id, person_id, goals, shots_taken, games_played, passes_attempted, turnovers, possession_percent)
===

iii) Now in BCNF:

R1 (goals, shots_taken, shot_accuracy)
R3 (passes_attempted, turnovers, passing_percent)
R4 (stats_id, person_id, **goals, shots_taken**, games_played, **passes_attempted, turnovers**, possession_percent)

R1 → ShotDetails
R3 → PassDetails
R4 → Statistics

FDs for Athlete:
- person_id → jersey_num, current_team, salary, position
- jersey_num → position

With Schema:
Athlete(person_id, jersey_num, current_team, salary, position)

Key: person_id
===

i) Decomp Athlete(person_id, jersey_num, …) on jersey_num → position:

R1 (jersey_num, position)

R2 (person_id, jersey_num, current_team, salary)
===

ii) Now in BCNF:

R1 (<u>jersey_num</u>, position)
R2 (<u>person_id</u>, **jersey_num**, current_team, salary)

R1 → PositionDetails
R2 → Athlete

SQL DDL Code –

```
/* Entities */

CREATE TABLE Person(
    person_id int,
    name varchar(100),
    birthdate date,
    height float,
    weight float,
    phone_number int UNIQUE,
    email varchar(100) UNIQUE,
    address varchar(100),
    date_started date,

    PRIMARY KEY(person_id),
    FOREIGN KEY(birthdate) REFERENCES AgeDetails(birthdate)
        ON DELETE CASCADE,
        /* ON UPDATE CASCADE, not supported will impl another way */
    FOREIGN KEY (date_started) REFERENCES ExperienceDetails(date_started)
        ON DELETE CASCADE
        /* ON UPDATE CASCADE not supported will impl another way */
);

CREATE TABLE AgeDetails(
```

```
    birthdate date,
    age int,

    PRIMARY KEY(birthdate),
);

CREATE TABLE ExperienceDetails(
    date_started date,
    years_experience int,

    PRIMARY KEY(date)
);

CREATE TABLE Team(
    team_name varchar(100),
    team_owner varchar(100),
    home_venue_address varchar(100) NOT NULL,

    PRIMARY KEY(team_name),
    FOREIGN KEY(home_venue_address) REFERENCES Venue(venue_address)
        ON DELETE NO ACTION
        /* ON UPDATE NO ACTION not supported will impl another way */
);

CREATE TABLE Athlete(
    person_id int,
    jersey_num int,
    current_team varchar(100) NOT NULL,
    salary int,

    PRIMARY KEY(person_id),
    FOREIGN KEY(person_id) REFERENCES Person(person_id)
        ON DELETE CASCADE,
        /* ON UPDATE CASCADE, not supported will impl another way */
    FOREIGN KEY(current_team) REFERENCES Team(team_name)
        ON DELETE NO ACTION, /* must point team to another team first*/
        /* ON UPDATE CASCADE, not supported will impl another way */
    FOREIGN KEY(jersey_num) REFERENCES PositionDetails(jersey_num)
        ON DELETE CASCADE,
        /* ON UPDATE CASCADE, not supported will impl another way */
);
```

```
CREATE TABLE PositionDetails(
    jersey_num int,
    position varchar(100),

    PRIMARY KEY(jersey_num)
);

CREATE TABLE Coach(
    person_id int NOT NULL,
    current_team varchar(100) NOT NULL,
    specialization varchar(100),

    PRIMARY KEY(person_id),
    FOREIGN KEY(person_id) REFERENCES Person(person_id)
        ON DELETE CASCADE,
        /* ON UPDATE CASCADE, not supported will impl another way */
    FOREIGN KEY(current_team) REFERENCES Team(team_name)
        ON DELETE NO ACTION /* must point team to another team first*/
        /* ON UPDATE CASCADE not supported will impl another way */
);

CREATE TABLE Referee(
    person_id int NOT NULL,
    certification_level int,

    PRIMARY KEY(person_id),
    FOREIGN KEY(person_id) REFERENCES Person(person_id)
        ON DELETE CASCADE
        /* ON UPDATE CASCADE not supported will impl another way */
);

CREATE TABLE Statistics(
    stats_id int,
    person_id int UNIQUE NOT NULL,
    goals int,
    shots_taken int,
    games_played int,
    passes_attempted int,
    turnovers int,
    possession_percent float,
```

```
    PRIMARY KEY(stats_id),
    FOREIGN KEY(person_id) REFERENCES Athlete(person_id)
        ON DELETE CASCADE,
        /* ON UPDATE CASCADE, not supported will impl another way */
    FOREIGN KEY(goals, shots_taken) REFERENCES ShotDetails(goals,
shots_taken)
        ON DELETE CASCADE,
        /* ON UPDATE CASCADE, not supported will impl another way */
    FOREIGN KEY(passes_attempted, turnovers) REFERENCES
PassDetails(passes_attempted, turnovers)
        ON DELETE CASCADE
        /* ON UPDATE CASCADE, not supported will impl another way */
);

CREATE TABLE ShotDetails(
    goals int,
    shots_taken int,
    shot_accuracy float,

    PRIMARY KEY(goals, shots_taken)
);

CREATE TABLE PassDetails(
    passes_attempted int,
    turnovers int,
    passing_percent float,

    PRIMARY KEY(passes_attempted, turnovers)
);

CREATE TABLE Awards(
    award_id int,
    year int,
    award_name varchar(50),

    PRIMARY KEY(award_id)
);

CREATE TABLE Sponsor(
    sponsor_name varchar(100),
```

```
    sponsor_email varchar(100) UNIQUE,
    money_granted int,

    PRIMARY KEY(sponsor_name)
);

CREATE TABLE Venue(
    venue_address varchar(100),
    venue_name varchar(100) UNIQUE,
    capacity int,

    PRIMARY KEY(venue_address)
);

CREATE TABLE Event(
    event_id int,
    event_name varchar(100),
    event_data date,

    PRIMARY KEY(event_id)
);

CREATE TABLE Injury(
    injury_type varchar(100),
    injury_date date,
    injury_status bool,
    person_id int,

    PRIMARY KEY(person_id, injury_type, injury_date),
    FOREIGN KEY(person_id) REFERENCES Athlete(person_id)
        ON DELETE CASCADE
        /* ON UPDATE CASCADE not supported will impl another way */
);

/* Relationship Tables that were necessary */

CREATE TABLE PlaysFor(
    person_id int,
    team_name varchar(100),

    PRIMARY KEY(person_id, team_name)
```

```
);

CREATE TABLE Coaches(
    person_id int,
    team_name varchar(100),

    PRIMARY KEY(person_id, team_name)
);

CREATE TABLE ParticipatesIn(
    team_name varchar(100),
    event_id int,

    PRIMARY KEY(team_name, event_id)
);

CREATE TABLE LocatedIn(
    event_id int,
    venue_address varchar(100),

    PRIMARY KEY(event_id, venue_address)
);

CREATE TABLE HasSponsor(
    team_name varchar(100),
    sponsor_name varchar(100),

    PRIMARY KEY(team_name, sponsor_name)
);

CREATE TABLE GivenBy(
    sponsor_name varchar(100),
    award_id int,

    PRIMARY KEY(sponsor_name, award_id)
);

CREATE TABLE WinsAward(
    award_id int,
    person_id int,
    team_name varchar(100),
```

```
    PRIMARY_KEY(award_id),
    UNIQUE(person_id, team_name)
);
```

INSERT Statements –

```
INSERT INTO Person VALUES
     /* Athletes for Team - each team two players for now*/
    (1, 'John Doe', '1985-04-15', 5.10, 170.5, 6041234567,
'john.doe@soccer.com', '123 Main St, Vancouver', '2000-07-10'),
    (2, 'Jane Smith', '1992-09-25', 5.6, 140.2, 7782345678,
'jane.smith@soccer.com', '456 Oak St, Vancouver', '2010-03-18'),
    (3, 'Mike Johnson', '1988-11-03', 6.0, 185.0, 6043456789,
'mike.johnson@soccer.com', '789 Elm St, Vancouver', '2005-12-05'),
    (4, 'Sarah Lee', '1995-07-19', 5.7, 150.8, 7784567890,
'sarah.lee@soccer.com', '234 Birch St, Vancouver', '2018-02-14'),
    (5, 'David Brown', '1982-03-12', 5.9, 175.3, 6045678901,
'david.brown@soccer.com', '567 Cedar St, Vancouver', '2002-09-22'),
    (6, 'Emily White', '1998-05-29', 5.4, 130.1, 7786789012,
'emily.white@soccer.com', '890 Fir St, Vancouver', '2015-06-30'),
    (7, 'Chris Anderson', '1987-08-14', 6.1, 190.6, 6047890123,
'chris.anderson@soccer.com', '123 Maple St, Vancouver', '2004-04-03'),
    (8, 'Laura Taylor', '1990-01-02', 5.8, 160.0, 7788901234,
'laura.taylor@soccer.com', '456 Pine St, Vancouver', '2009-11-12'),
    (9, 'Mark Wilson', '1986-12-08', 5.11, 180.4, 6049012345,
'mark.wilson@soccer.com', '789 Spruce St, Vancouver', '2007-07-27'),
    (10, 'Ava Martin', '1994-04-23', 5.5, 145.9, 7780123456,
'ava.martin@soccer.com', '234 Oak St, Vancouver', '2013-01-19'),

    /* Coaches*/
    (11, 'Daniel Lee', '1983-06-17', 5.10, 175.2, 6041234567,
'daniel.lee@soccer.com', '567 Birch St, Vancouver', '2001-10-09'),
    (12, 'Olivia Johnson', '1997-10-30', 5.6, 140.8, 7782345678,
'olivia.johnson@soccer.com', '890 Elm St, Vancouver', '2016-08-07'),
```

```
    (13, 'William Smith', '1981-12-27', 5.11, 185.6, 6043456789,
'william.smith@soccer.com', '123 Cedar St, Vancouver', '2003-05-14'),
    (14, 'Sophia Brown', '1999-02-10', 5.7, 150.1, 7784567890,
'sophia.brown@soccer.com', '456 Fir St, Vancouver', '2019-12-21'),
    (15, 'James Anderson', '1984-07-07', 6.2, 195.0, 6045678901,
'james.anderson@soccer.com', '789 Pine St, Vancouver', '2006-02-16'),

    /* Referees */
    (16, 'Liam Taylor', '1991-03-18', 5.9, 168.7, 2361234567,
'liam.taylor@soccer.com', '567 Oak St, Vancouver', '2009-08-14'),
    (17, 'Ella Smith', '1996-08-22', 5.4, 135.2, 2362345678,
'ella.smith@soccer.com', '345 Elm St, Vancouver', '2017-05-25'),
    (18, 'Noah Johnson', '1989-12-05', 6.2, 190.8, 2363456789,
'noah.johnson@soccer.com', '678 Birch St, Vancouver', '2006-11-30'),
    (19, 'Mia Davis', '1993-04-30', 5.6, 150.3, 2364567890,
'mia.davis@soccer.com', '456 Cedar St, Vancouver', '2014-09-07'),
    (20, 'Oliver Anderson', '1980-06-14', 5.10, 178.2, 2365678901,
'oliver.anderson@soccer.com', '890 Pine St, Vancouver', '2000-04-18');

INSERT INTO AgeDetails VALUES
    ('1985-04-15', 38),
    ('1992-09-25', 31),
    ('1988-11-03', 34),
    ('1995-07-19', 28),
    ('1982-03-12', 41),
    ('1998-05-29', 25),
    ('1987-08-14', 36),
    ('1990-01-02', 33),
    ('1986-12-08', 36),
    ('1994-04-23', 29),
    ('1983-06-17', 40),
    ('1997-10-30', 25),
    ('1981-12-27', 41),
    ('1999-02-10', 24),
    ('1984-07-07', 39),
    ('1991-03-18', 32),
    ('1996-08-22', 27),
    ('1989-12-05', 33),
    ('1993-04-30', 30),
    ('1980-06-14', 43);
```

```
INSERT INTO ExperienceDetails VALUES
    ('2000-07-10', 23),
    ('2010-03-18', 13),
    ('2005-12-05', 17),
    ('2018-02-14', 5),
    ('2002-09-22', 21),
    ('2015-06-30', 8),
    ('2004-04-03', 19),
    ('2009-11-12', 13),
    ('2007-07-27', 16),
    ('2013-01-19', 10),
    ('2001-10-09', 22),
    ('2016-08-07', 7),
    ('2003-05-14', 20),
    ('2019-12-21', 3),
    ('2006-02-16', 17),
    ('2009-08-14', 14),
    ('2017-05-25', 6),
    ('2006-11-30', 16),
    ('2014-09-07', 9),
    ('2000-04-18', 23);

INSERT INTO Team VALUES
    ('Vancouver Vipers', 'John Wong', '5123 Main Street, Vancouver'),
    ('Vancouver Thunder', 'Emily Johnson', '5456 Oak Avenue, Vancouver'),
    ('Vancouver Warriors', 'Michael Brown', '5789 Elm Road, Vancouver'),
    ('Vancouver Titans', 'Sarah Lee', '5101 Maple Lane, Vancouver'),
    ('Vancouver Sharks', 'Robert Davis', '5234 Pine Street, Vancouver');

INSERT INTO Athlete VALUES
    (1, 1, 'Vancouver Vipers', 60000),
    (2, 2, 'Vancouver Vipers', 70000),
    (3, 3, 'Vancouver Thunder', 80000),
    (4, 4, 'Vancouver Thunder', 90000),
    (5, 5, 'Vancouver Warriors', 100000),
    (6, 6, 'Vancouver Warriors', 110000),
    (7, 7, 'Vancouver Titans', 120000),
    (8, 8, 'Vancouver Titans', 130000),
    (9, 9, 'Vancouver Sharks', 140000),
    (10, 10, 'Vancouver Sharks', 150000);
```

```
INSERT INTO PositionDetails VALUES
    (1, 'Goalkeeper'),
    (2, 'Right Back'),
    (3, 'Left Back'),
    (4, 'Sweeper'),
    (5, 'Central Back'),
    (6, 'Defensive Midfielder'),
    (7, 'Winger'),
    (8, 'Central Midfielder'),
    (9, 'Striker'),
    (10, 'Central Attacking Midfielder');

INSERT INTO Coach VALUES
    (11, 'Vancouver Vipers', 'Assistant Coach'),
    (12, 'Vancouver Thunder', 'Assistant Coach'),
    (13, 'Vancouver Warriors', 'Head Coach'),
    (14, 'Vancouver Titans', 'Head Coach'),
    (15, 'Vancouver Sharks', 'Assistant Coach');

INSERT INTO Referee VALUES
    (16, 'Vancouver Vipers', 1),
    (17, 'Vancouver Thunder', 2),
    (18, 'Vancouver Warriors', 3),
    (19, 'Vancouver Titans', 4),
    (20, 'Vancouver Sharks', 5);

INSERT INTO Statistics VALUES
    (1, 1, 1, 2, 3, 50, 10, 40.0),
    (2, 2, 3, 4, 3, 51, 11, 50.0),
    (3, 3, 2, 6, 3, 52, 12, 45.0),
    (4, 4, 1, 2, 3, 60, 15, 47.0),
    (5, 5, 1, 2, 3, 60, 18, 40.1),
    (6, 6, 1, 4, 3, 60, 12, 60.0),
    (7, 7, 2, 8, 3, 60, 16, 65.0),
    (8, 8, 1, 10, 3, 60, 15, 42.0),
    (9, 9, 0, 4, 3, 60, 16, 41.0),
    (10, 10, 0, 6, 3, 60, 13, 48.0);

INSERT INTO ShotDetails VALUES
    (1, 2, 1/2),
    (3, 4, 3/4),
```

```
    (2, 6, 2/6),
    (1, 4, 1/4),
    (2, 8, 2/8),
    (1, 10, 1/10),
    (0, 4, 0/4),
    (0, 6, 0/4);

INSERT INTO PassDetails VALUES
    (50, 10, 1-10/50),
    (51, 11, 1-11/51),
    (52, 12, 1-12/52),
    (60, 15, 1-15/60),
    (60, 18, 1-18/60),
    (62, 12, 1-12/62),
    (60, 16, 1-16/60),
    (65, 15, 1-15/65),
    (69, 16, 1-16/69),
    (67, 13, 1-13/67);

INSERT INTO Awards VALUES
    (1, 2023, 'Offensive Player of the Year'),
    (2, 2023, 'Defensive Player of the Year'),
    (3, 2022, 'Offensive Player of the Year'),
    (4, 2022, 'Team of the Year'),
    (5, 2023, 'Team of the Year');

INSERT INTO Sponsor VALUES
    ('Coca-Cola', 'sponsor@coca-colacompany.com', 50000),
    ('Adidas', 'sponsor@adidas.com', 40000),
    ('Visa', 'sponsor@visa.ca', 60000),
    ('UBC', 'sponsor@ubc.ca', 2000),
    ('Hyundai', 'sponsor@hyundaimotorgroup.com', 80000);

INSERT INTO Venue VALUES
    ('5123 Main Street, Vancouver', 'Benz Stadium', 10000),
    ('5456 Oak Avenue, Vancouver', 'Mountainview Stadium', 20000),
    ('5789 Elm Road, Vancouver', 'Evergreen Arena', 15000),
    ('5101 Maple Lane, Vancouver', 'Harborview Stadium', 5000),
    ('5234 Pine Street, Vancouver', 'Seaview Arena', 34500);

INSERT INTO Event VALUES
```

```
    (1, 'Vancouver Warriors vs. Vancouver Sharks, '2022-01-28'),
    (2, 'Coca-Cola Fundraiser Special', '2021-02-01'),
    (3, 'Vancouver Sharks vs. Vancouver Titans', '2022-06-02'),
    (4, 'Vancouver Vipers vs. Vancouver Titans','2023-08-15'),
    (5, 'Vancouver Thunder Practice Game, '2022-10-27');

INSERT INTO Injury VALUES
    ('Arm', '2022-04-20', FALSE, 1),
    ('ACL', '2023-10-15', TRUE, 2),
    ('Leg', '2022-09-21', FALSE, 3),
    ('Head', '2021-10-30', TRUE, 4),
    ('Finger', '2022-01-22', FALSE, 5);

INSERT INTO PlaysFor VALUES
    (1, 'Vancouver Vipers'),
    (2, 'Vancouver Thunder'),
    (3, 'Vancouver Warriors'),
    (4, 'Vancouver Titans'),
    (5, 'Vancouver Sharks'),
    (6, 'Vancouver Vipers'),
    (7, 'Vancouver Thunder'),
    (8, 'Vancouver Warriors'),
    (9, 'Vancouver Titans'),
    (10, 'Vancouver Sharks');

INSERT INTO Coaches VALUES
    (1, 'Vancouver Vipers'),
    (2, 'Vancouver Thunder'),
    (3, 'Vancouver Warriors'),
    (4, 'Vancouver Titans'),
    (5, 'Vancouver Sharks');

INSERT INTO ParticipatesIn
    ('Vancouver Warriors', 1),
    ('Vancouver Sharks', 1),
    ('Vancouver Titans', 3),
    ('Vancouver Sharks', 3),
    ('Vancouver Vipers', 4),
    ('Vancouver Titans', 4),
    ('Vancouver Thunder', 5);
```

```
INSERT INTO LocatedIn VALUES
    (1, '5234 Pine Street, Vancouver'),
    (2, '5789 Elm Road, Vancouver'),
    (3, '5234 Pine Street, Vancouver'),
    (4, '5101 Maple Lane, Vancouver'),
    (5, '5456 Oak Avenue, Vancouver');

INSERT INTO HasSponsor VALUES
    ('Vancouver Vipers', 'Adidas'),
    ('Vancouver Thunder', 'Coca-Cola'),
    ('Vancouver Warriors', 'Visa'),
    ('Vancouver Titans', 'Adidas'),
    ('Vancouver Sharks', 'UBC');

INSERT INTO GivenBy VALUES
    ('Adidas', 1),
    ('Coca-Cola', 2),
    ('Visa', 3),
    ('Adidas', 4),
    ('UBC', 5);

INSERT INTO WinsAward VALUES
    (1, 2, NULL),
    (2, 14, NULL),
    (3, NULL, 'Vancouver Warriors'),
    (4, NULL, 'Vancouver Vipers'),
    (5, 8, NULL);
```