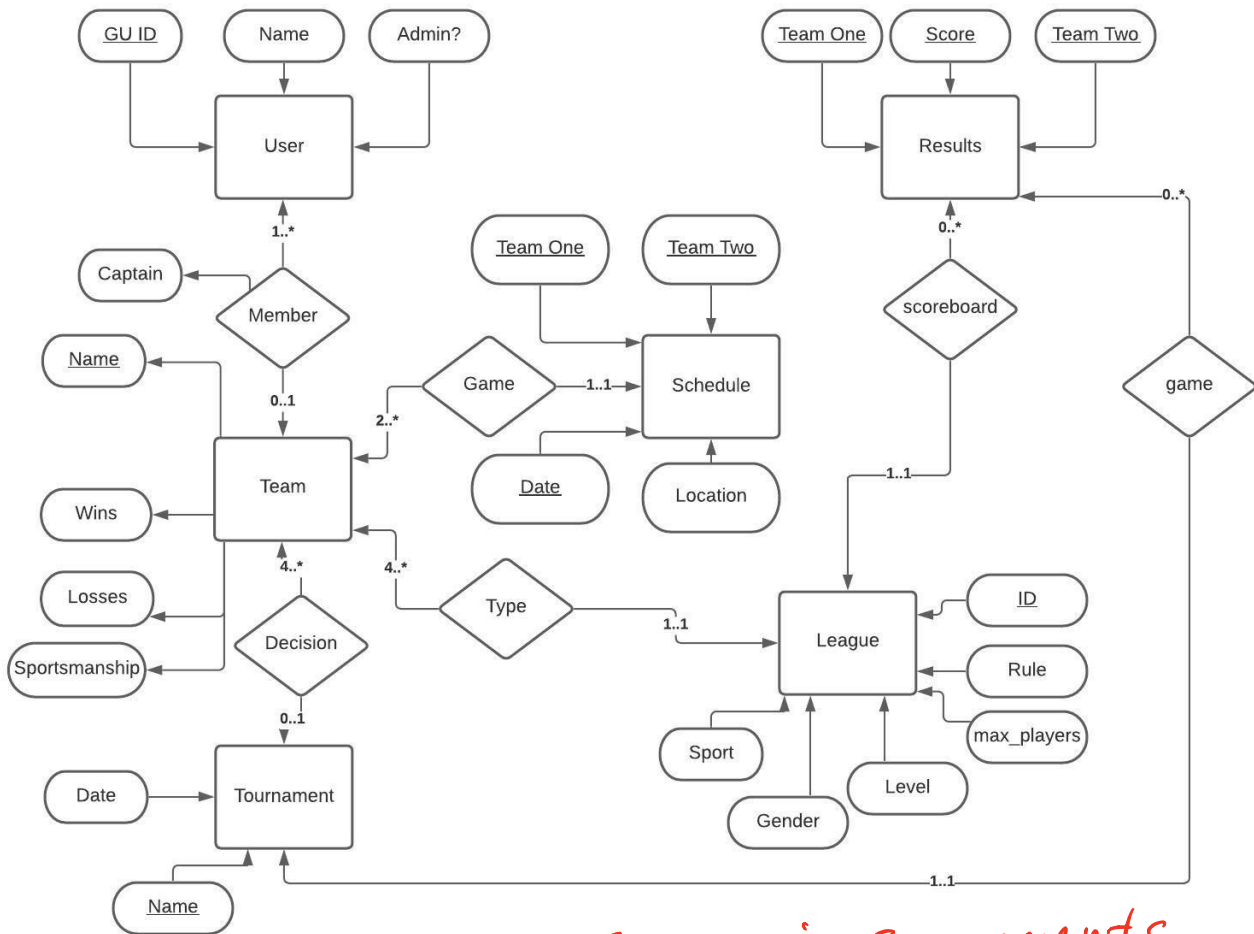


10/10

Brenna Starkey & Luke Mason
October 20, 2020
CPSC 321
Dr. Bowers

Project #4



★ See previous comments
from PRJ-3

- 1.) The only revision we made was adding a sportsmanship rating attribute to team which will be an average updated after every game. Other than that, we did not make any changes and will see if we need to after implementing the relational schema and tables.

2.) user(GU_ID, name, is_admin)
team(team_n, wins, losses, sportsmanship_rating)
tournament(tourney_n, date_of_tourney)
schedule(team_one, team_two, date_of_game, location_of_game)
Team_one -> team.team_n
Team_two -> team.team_n
league(league_ID, rule, max_players, level, gender, sport)
results(team_one, team_two, date_of_game, team_one_score, team_two_score)
Team_one, team_two, date_of_game -> schedule.Team_one, team_two,
date_of_game
userOnTeam(GU_ID, team_n, is_captain)
GU_ID -> user.GU_ID
Team_n -> team.team_n
teamInTournament(team_n, tourney_n)
Team_n -> team.team_n
Tourney_n -> tournament.tourney_n
teamInLeague(team_n, league_ID)
Team_n -> team.team_n
league_ID -> league.league_ID

3.) See Script

4.) See Script

5.)

```
MySQL cps-database.gonzaga.edu:3306 lmason2_DB SQL source proj4.sql
Query OK, 0 rows affected (0.0171 sec)
Query OK, 0 rows affected (0.2915 sec)
Query OK, 0 rows affected (0.0224 sec)
Query OK, 0 rows affected (0.0574 sec)
Query OK, 0 rows affected (0.0167 sec)
Query OK, 0 rows affected (0.0844 sec)
Query OK, 0 rows affected (0.0121 sec)
Query OK, 0 rows affected (0.0581 sec)
Query OK, 0 rows affected (0.0184 sec)
Query OK, 0 rows affected (0.0611 sec)
Query OK, 0 rows affected (0.0144 sec)
Query OK, 0 rows affected (0.0448 sec)
Query OK, 0 rows affected (0.0372 sec)
Query OK, 0 rows affected (0.0657 sec)
Query OK, 0 rows affected (0.0118 sec)
Query OK, 0 rows affected (0.0517 sec)
Query OK, 0 rows affected (0.0152 sec)
Query OK, 0 rows affected (0.0674 sec)
Query OK, 0 rows affected (0.0155 sec)
Query OK, 0 rows affected (0.0540 sec)
Query OK, 0 rows affected (0.0124 sec)
Query OK, 0 rows affected (0.0130 sec)
Query OK, 3 rows affected (0.0223 sec)

Records: 3 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.0138 sec)
Query OK, 3 rows affected (0.0287 sec)

Records: 3 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.0125 sec)
Query OK, 2 rows affected (0.0186 sec)

Records: 2 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.0161 sec)
Query OK, 2 rows affected (0.0213 sec)

Records: 2 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.0120 sec)
Query OK, 3 rows affected (0.0435 sec)

Records: 3 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.0153 sec)
Query OK, 2 rows affected (0.0175 sec)

Records: 2 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.0168 sec)
Query OK, 3 rows affected (0.0217 sec)

Records: 3 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.0129 sec)
Query OK, 3 rows affected (0.0246 sec)

Records: 3 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.0428 sec)
Query OK, 3 rows affected (0.0176 sec)

Records: 3 Duplicates: 0 Warnings: 0
MySQL cps-database.gonzaga.edu:3306 lmason2_DB SQL
```

```
/* Name: Brenna Starkey & Luke Mason
Date: October 20, 2020
File: proj4.sql
Class: CPSC 321, Bowers
Description: */
```

```
/* Name: Brenna Starkey & Luke Mason
Date: October 20, 2020
File: proj4.sql
Class: CPSC 321, Bowers
Description: */
```

```
SET sql_mode = STRICT_ALL_TABLES;
```

```
DROP TABLE IF EXISTS results, schedule, userOnTeam, teamInLeague, teamInTournament, tournament, team, user, league;
```

```
-- User entity
CREATE TABLE user(
GU_ID INT UNSIGNED,
user_n VARCHAR(60),
is_admin BOOLEAN,
PRIMARY KEY(GU_ID)
);
```

```
-- Team entity
CREATE TABLE team(
team_n VARCHAR(60),
wins INT UNSIGNED,
losses INT UNSIGNED,
ties INT UNSIGNED,
sportsmanship_rating INT UNSIGNED,
PRIMARY KEY (team_n)
);
```

```
-- Tournament entity
CREATE TABLE tournament(
tourney_n VARCHAR(60),
tourney_date DATETIME,
PRIMARY KEY (tourney_n)
);
```

```
-- Schedule of games entity to be played
CREATE TABLE schedule (
team_one VARCHAR(60),
team_two VARCHAR(60),
date_of_game DATETIME,
game_location VARCHAR(60),
PRIMARY KEY (team_one, team_two, date_of_game),
FOREIGN KEY (team_one) REFERENCES team (team_n),
FOREIGN KEY (team_two) REFERENCES team (team_n)
);
```

```
-- League entity that teams can join
CREATE TABLE league (
league_ID INT UNSIGNED,
rule VARCHAR(60),
max_players INT UNSIGNED,
league_level VARCHAR(60),
gender VARCHAR(60),
```

```

sport VARCHAR(60),
PRIMARY KEY (league_ID)
);

-- Results of games that are played
CREATE TABLE results (
team_one VARCHAR(60),
team_two VARCHAR(60),
date_of_game DATETIME,
team_one_score INT,
team_two_score INT,
PRIMARY KEY (team_one, team_two, date_of_game),
FOREIGN KEY (team_one, team_two, date_of_game)
REFERENCES schedule(team_one, team_two, date_of_game)
);

-- User on team relational table
CREATE TABLE userOnTeam (
GU_ID INT UNSIGNED,
team_n VARCHAR(60),
is_captain BOOLEAN,
PRIMARY KEY (GU_ID),
FOREIGN KEY (GU_ID) REFERENCES user(GU_ID),
FOREIGN KEY (team_n) REFERENCES team(team_n)
);

-- Team in tournament relational table
CREATE TABLE teamInTournament (
team_n VARCHAR(60),
tourney_n VARCHAR(60),
PRIMARY KEY (team_n, tourney_n),
FOREIGN KEY (team_n) REFERENCES team(team_n),
FOREIGN KEY (tourney_n) REFERENCES tournament(tourney_n)
);

-- Team in league relational table
CREATE TABLE teamInLeague (
team_n VARCHAR(60),
league_ID INT UNSIGNED,
PRIMARY KEY (team_n),
FOREIGN KEY (team_n) REFERENCES team(team_n),
FOREIGN KEY (league_ID) REFERENCES league(league_ID)
);

-- Insert Statements
-- User
INSERT INTO user VALUES (54013911, 'Brenna Starkey', 1), (123456, 'Luke Mason',
1),
(753293, 'Shawn Bowers', 0), (324313, 'Grace Tompkins', 0), (6583928, 'Anna Keny
on', 0),
(637562, 'Sophie Landers', 0), (233901, 'Mia Scelfo', 0), (727349, 'Kerynica Key
es', 0),
(129402, 'Ben Hogan', 0), (324628, 'Bob Smith', 0), (392017, 'Alice Anders', 0),
(345921, 'Dan Humphrey', 0), (952619, 'Andrew Ray', 0);

-- Team
INSERT INTO team VALUES ('Team 1', 4, 0, 1, 4), ('Team 2', 1, 0, 3, 3),
('Team 3', 6, 1, 0, 3), ('The Rockets', 5, 4, 2, 4), ('Laker Nation', 2, 2, 0, 5
),

```

```

('Sluggers', 1, 2, 0, 4), ('Lightning Bolts', 0, 4, 0, 3), ('Ballers', 3, 3, 0, 4),
('Big Cats', 4, 4, 0, 3), ('Tiger Kings', 3, 2, 0, 2);

-- Tournament
INSERT INTO tournament VALUES ('Basketball Tournament', 20201020080000), ('Soccer Tournament', 20201020080000),
('World Cup', 20201203073000), ('Softball Tournament', 20201108103000);

-- Schedule
INSERT INTO schedule VALUES ('Team 1', 'Team 3', 20201024073000, 'McCarthy'),
('Team 2', 'Team 1', 20201024080000, 'Rudolf Fitness Center'), ('The Rockets', 'Laker Nation',
20201027091500, 'Rudolf Fitness Center'), ('Sluggers', 'Lightning Bolts', 20201113120000, 'Mulligan Field'),
('Tiger Kings', 'Big Cats', 20201114123000, 'Mulligan Field'), ('Ballers', 'Team 1', 20201222083000, 'McCarthy'),
('Team 1', 'Team 3', 20201113042500, 'Rudolf Fitness Center');

-- League
INSERT INTO league VALUES (101, 'No Club Players', 10, 'Beginner', 'Coed', 'Basketball'),
(102, NULL, 15, 'Intermediate', 'Male', 'Football'), (103, 'Experienced players only',
15, 'Advanced', 'Female', 'Softball');

-- Results
INSERT INTO results VALUES ('Team 1', 'Team 3', 20201024073000, 24, 30), ('Team 2', 'Team 1', 20201024080000, 45, 40),
('The Rockets', 'Laker Nation', 20201027091500, 36, 38), ('Sluggers', 'Lightning Bolts', 20201113120000, 38, 38),
('Tiger Kings', 'Big Cats', 20201114123000, 40, 41), ('Ballers', 'Team 1', 20201222083000, 34, 45), ('Team 1', 'Team 3', 20201113042500, 50, 51);

-- User on Team
INSERT INTO userOnTeam VALUES (54013911, 'Team 1', 1), (123456, 'Team 1', 0), (753293, 'Team 2', 1),
(324313, 'Team 3', 0), (6583928, 'Team 3', 1), (637562, 'Team 3', 0), (233901, 'Team 3', 0),
(727349, 'The Rockets', 1), (129402, 'The Rockets', 0), (324628, 'Laker Nation', 0),
(392017, 'Laker Nation', 1), (345921, 'Lightning Bolts', 0), (952619, 'Ballers', 1);

-- Team in Tournament
INSERT INTO teamInTournament VALUES ('Team 1', 'Basketball Tournament'), ('Team 2', 'Basketball Tournament'),
('Team 3', 'Soccer Tournament');

-- Team in League
INSERT INTO teamInLeague VALUES ('Team 1', 101), ('Team 2', 101), ('Team 3', 103);

```