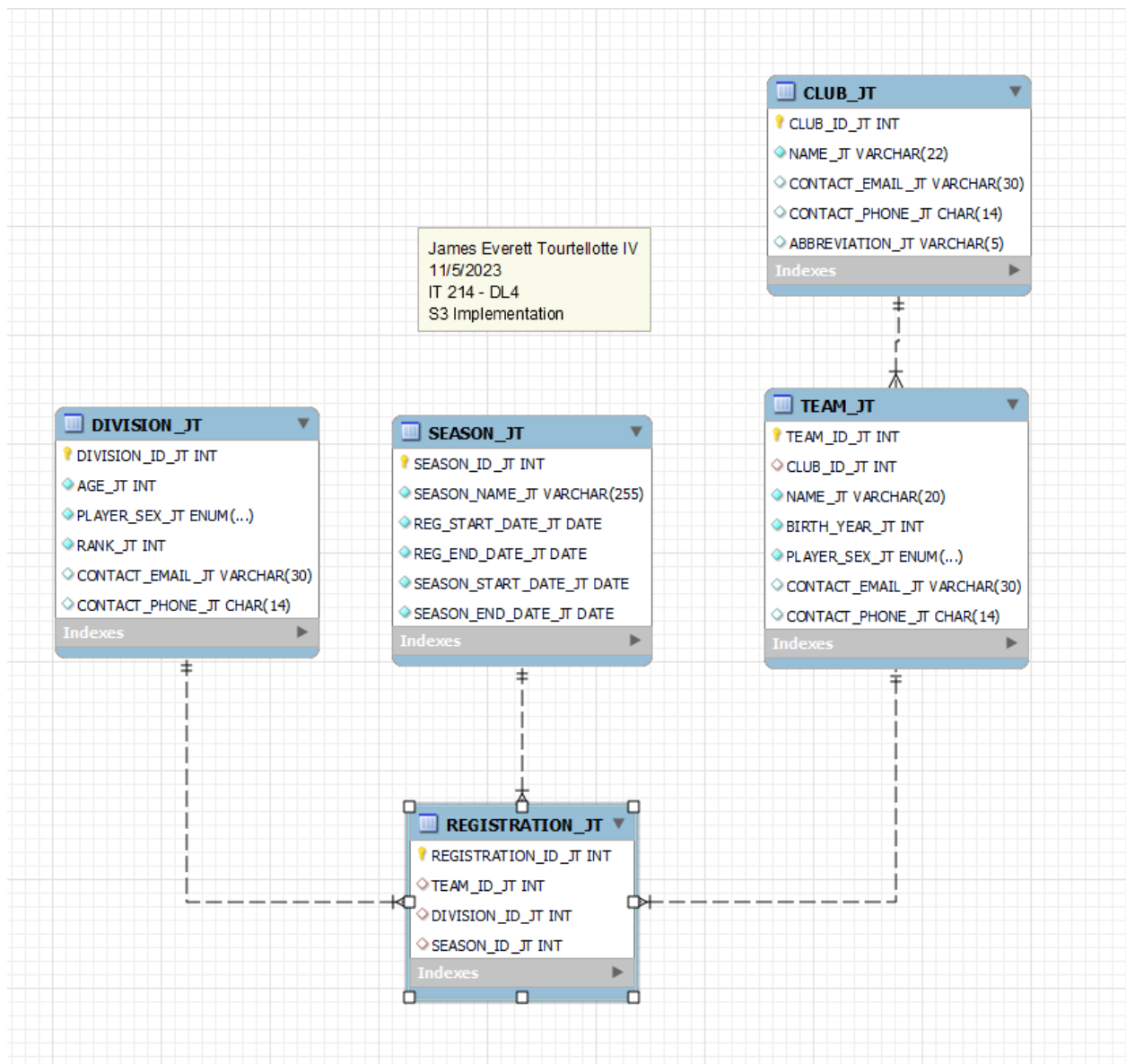


James Everett Tourtellotte IV  
11/5/2023  
IT 214 - DL4  
S3 Implementation Assignment

## Full ERD



## Task 2 - Create Database

Input:

```
1      -- Task 2 Create database by [James Tourtellotte]
2
3 •    CREATE DATABASE SOCCER_LEAGUE_JT;
4
5 •    USE SOCCER_LEAGUE_JT;
6
7 •    SHOW DATABASES;
8
```

Output:

	#	Time	Action	Message
✓	1	14:35:13	CREATE DATABASE SOCCER_LEAGUE_JT	1 row(s) affected
✓	2	14:35:13	USE SOCCER_LEAGUE_JT	0 row(s) affected
✓	3	14:35:13	SHOW DATABASES	14 row(s) returned
✓	4	14:35:13	SHOW TABLES	0 row(s) returned

### Task 3 - Create Tables

Input 1/3:

```
14 • ○ CREATE TABLE SEASON_JT (  
15     SEASON_ID_JT INT AUTO_INCREMENT PRIMARY KEY,  
16     SEASON_NAME_JT VARCHAR(255) NOT NULL,  
17     REG_START_DATE_JT DATE NOT NULL,  
18     REG_END_DATE_JT DATE NOT NULL,  
19     SEASON_START_DATE_JT DATE NOT NULL,  
20     SEASON_END_DATE_JT DATE NOT NULL  
21 );  
22  
23 • ○ CREATE TABLE DIVISION_JT (  
24     DIVISION_ID_JT INT AUTO_INCREMENT PRIMARY KEY,  
25     AGE_JT INT NOT NULL,  
26     PLAYER_SEX_JT ENUM('boys', 'girls') NOT NULL,  
27     RANK_JT INT NOT NULL,  
28     CONTACT_EMAIL_JT VARCHAR(30),  
29     CONTACT_PHONE_JT CHAR(14)  
30 );  
31
```

Input 2/3:

```
32 • ○ CREATE TABLE CLUB_JT (  
33     CLUB_ID_JT INT AUTO_INCREMENT PRIMARY KEY,  
34     NAME_JT VARCHAR(22) NOT NULL,  
35     CONTACT_EMAIL_JT VARCHAR(30),  
36     CONTACT_PHONE_JT CHAR(14),  
37     ABBREVIATION_JT VARCHAR(5)  
38 );  
39  
40 • ○ CREATE TABLE TEAM_JT (  
41     TEAM_ID_JT INT AUTO_INCREMENT PRIMARY KEY,  
42     CLUB_ID_JT INT,  
43     NAME_JT VARCHAR(20) NOT NULL,  
44     BIRTH_YEAR_JT INT NOT NULL,  
45     PLAYER_SEX_JT ENUM('boys', 'girls') NOT NULL,  
46     CONTACT_EMAIL_JT VARCHAR(30),  
47     CONTACT_PHONE_JT CHAR(14),  
48     UNIQUE (CLUB_ID_JT, NAME_JT),  
49     FOREIGN KEY (CLUB_ID_JT) REFERENCES CLUB_JT(CLUB_ID_JT)  
50 );  
51
```

### Task 3 - Create Tables Continued:

Input 3/3

```
52 • CREATE TABLE REGISTRATION_JT (  
53     REGISTRATION_ID_JT INT AUTO_INCREMENT PRIMARY KEY,  
54     TEAM_ID_JT INT,  
55     DIVISION_ID_JT INT,  
56     SEASON_ID_JT INT,  
57     FOREIGN KEY (TEAM_ID_JT) REFERENCES TEAM_JT(Team_ID_JT),  
58     FOREIGN KEY (DIVISION_ID_JT) REFERENCES DIVISION_JT(DIVISION_ID_JT),  
59     FOREIGN KEY (SEASON_ID_JT) REFERENCES SEASON_JT(SEASON_ID_JT)  
60 );  
61  
62 • SHOW TABLES;  
63 • DESCRIBE SEASON_JT;  
64 • DESCRIBE DIVISION_JT;  
65 • DESCRIBE CLUB_JT;  
66 • DESCRIBE TEAM_JT;  
67 • DESCRIBE REGISTRATION_JT;  
68
```

Output:

✓	4	14:35:13	SHOW TABLES	0 row(s) returned
✓	5	14:35:13	CREATE TABLE SEASON_JT ( SEASON_ID_JT INT AUTO_INCREMENT PRIMARY KEY, SEASON_NAME_JT VARCHAR(255) NOT NUL...	0 row(s) affected
✓	6	14:35:13	CREATE TABLE DIVISION_JT ( DIVISION_ID_JT INT AUTO_INCREMENT PRIMARY KEY, AGE_JT INT NOT NULL, PLAYER_SEX_JT ...	0 row(s) affected
✓	7	14:35:13	CREATE TABLE CLUB_JT ( CLUB_ID_JT INT AUTO_INCREMENT PRIMARY KEY, NAME_JT VARCHAR(22) NOT NULL, CONTACT_E...	0 row(s) affected
✓	8	14:35:13	CREATE TABLE TEAM_JT ( TEAM_ID_JT INT AUTO_INCREMENT PRIMARY KEY, CLUB_ID_JT INT, NAME_JT VARCHAR(20) NOT N...	0 row(s) affected
✓	9	14:35:13	CREATE TABLE REGISTRATION_JT ( REGISTRATION_ID_JT INT AUTO_INCREMENT PRIMARY KEY, TEAM_ID_JT INT, DIVISION_I...	0 row(s) affected
✓	10	14:35:13	SHOW TABLES	5 row(s) returned
✓	11	14:35:13	DESCRIBE SEASON_JT	6 row(s) returned
✓	12	14:35:13	DESCRIBE DIVISION_JT	6 row(s) returned
✓	13	14:35:13	DESCRIBE CLUB_JT	5 row(s) returned
✓	14	14:35:13	DESCRIBE TEAM_JT	7 row(s) returned
✓	15	14:35:13	DESCRIBE REGISTRATION_JT	4 row(s) returned

## Task 4 - Add Data

Input 1/3 :

```
-- task 4 by James Tourtellotte

-- Insert Seasons
INSERT INTO SEASON_JT (SEASON_NAME_JT, REG_START_DATE_JT, REG_END_DATE_JT, SEASON_START_DATE_JT, SEASON_END_DATE_JT) VALUES
('SUMMER 2021', '2021-05-11', '2021-05-14', '2021-06-15', '2021-09-15'),
('SPRING 2019', '2019-02-21', '2019-02-22', '2019-03-15', '2019-06-15'),
('WINTER 2022', '2022-11-05', '2022-11-29', '2022-12-15', '2023-03-15'); -- No division will be defined for this season yet.

-- Insert Divisions
INSERT INTO DIVISION_JT (AGE_JT, PLAYER_SEX_JT, RANK_JT, CONTACT_EMAIL_JT, CONTACT_PHONE_JT) VALUES
(12, 'boys', 1, 'u12boys_div1@example.com', '(123) 456-7890'),
(14, 'boys', 1, 'u14boys_div1@example.com', '(234) 567-8901'),
(10, 'girls', 2, 'u10girls_div2@example.com', '(345) 678-9012'),
(15, 'girls', 2, 'u15girls_div2@example.com', '(456) 789-0123');

-- Insert Clubs
INSERT INTO CLUB_JT (NAME_JT, ABBREVIATION_JT) VALUES
('Hawks', 'HWK'),
('Eagles', 'EGL'),
('Falcons', 'FLC');
```

Input 2/3:

```
-- Insert Teams with contact email and phone for Club 'Eagles'
INSERT INTO TEAM_JT (CLUB_ID_JT, NAME_JT, BIRTH_YEAR_JT, PLAYER_SEX_JT, CONTACT_EMAIL_JT, CONTACT_PHONE_JT) VALUES
((SELECT CLUB_ID_JT FROM CLUB_JT WHERE NAME_JT = 'Eagles'), 'Red', 2010, 'boys', 'red.team@example.com', '(567) 890-1234'),
((SELECT CLUB_ID_JT FROM CLUB_JT WHERE NAME_JT = 'Eagles'), 'Blue', 2008, 'boys', 'blue.team@example.com', '(678) 901-2345');

-- Insert Teams with contact email and phone for another club 'Hawks'
INSERT INTO TEAM_JT (CLUB_ID_JT, NAME_JT, BIRTH_YEAR_JT, PLAYER_SEX_JT, CONTACT_EMAIL_JT, CONTACT_PHONE_JT) VALUES
((SELECT CLUB_ID_JT FROM CLUB_JT WHERE NAME_JT = 'Hawks'), 'Green', 2009, 'girls', 'green.team@example.com', '(789) 012-3456'),
((SELECT CLUB_ID_JT FROM CLUB_JT WHERE NAME_JT = 'Hawks'), 'Yellow', 2007, 'girls', 'yellow.team@example.com', '(890) 123-4567');

-- Insert a team with contact email and phone for the third club, but don't register it to any division
INSERT INTO TEAM_JT (CLUB_ID_JT, NAME_JT, BIRTH_YEAR_JT, PLAYER_SEX_JT, CONTACT_EMAIL_JT, CONTACT_PHONE_JT) VALUES
((SELECT CLUB_ID_JT FROM CLUB_JT WHERE NAME_JT = 'Falcons'), 'White', 2011, 'boys', 'white.team@example.com', '(901) 234-5678');

-- Register Teams to Divisions
-- Register 'Red' and 'Blue' to the first and second divisions for 'SPRING 2019'
INSERT INTO REGISTRATION_JT (TEAM_ID_JT, DIVISION_ID_JT, SEASON_ID_JT) VALUES
((SELECT TEAM_ID_JT FROM TEAM_JT WHERE NAME_JT = 'Red'), 1, 2),
((SELECT TEAM_ID_JT FROM TEAM_JT WHERE NAME_JT = 'Red'), 2, 2),
((SELECT TEAM_ID_JT FROM TEAM_JT WHERE NAME_JT = 'Blue'), 1, 2),
((SELECT TEAM_ID_JT FROM TEAM_JT WHERE NAME_JT = 'Blue'), 2, 2);
```

## Task 4 - Continued

Input 3/3 :

```
-- Register 'Green' and 'Yellow' to the third and fourth divisions for 'SUMMER 2021'
INSERT INTO REGISTRATION_JT (TEAM_ID_JT, DIVISION_ID_JT, SEASON_ID_JT) VALUES
((SELECT TEAM_ID_JT FROM TEAM_JT WHERE NAME_JT = 'Green'), 3, 1),
((SELECT TEAM_ID_JT FROM TEAM_JT WHERE NAME_JT = 'Green'), 4, 1),
((SELECT TEAM_ID_JT FROM TEAM_JT WHERE NAME_JT = 'Yellow'), 3, 1),
((SELECT TEAM_ID_JT FROM TEAM_JT WHERE NAME_JT = 'Yellow'), 4, 1);
```

Output :

✓	16	14:35:13	INSERT INTO SEASON_JT (SEASON_NAME_JT, REG_START_DATE_JT, REG_END_DATE_JT, SEASON_START_DATE_JT, SEASON_EN...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
✓	17	14:35:13	INSERT INTO DIVISION_JT (AGE_JT, PLAYER_SEX_JT, RANK_JT, CONTACT_EMAIL_JT, CONTACT_PHONE_JT) VALUES (12, 'boys', 1, 'u1...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0
✓	18	14:35:13	INSERT INTO CLUB_JT (NAME_JT, ABBREVIATION_JT) VALUES ('Hawks', 'HWK'), ('Eagles', 'EGL'), ('Falcons', 'FLC')	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
✓	19	14:35:13	INSERT INTO TEAM_JT (CLUB_ID_JT, NAME_JT, BIRTH_YEAR_JT, PLAYER_SEX_JT, CONTACT_EMAIL_JT, CONTACT_PHONE_JT) VALU...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0
✓	20	14:35:13	INSERT INTO TEAM_JT (CLUB_ID_JT, NAME_JT, BIRTH_YEAR_JT, PLAYER_SEX_JT, CONTACT_EMAIL_JT, CONTACT_PHONE_JT) VALU...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0
✓	21	14:35:13	INSERT INTO TEAM_JT (CLUB_ID_JT, NAME_JT, BIRTH_YEAR_JT, PLAYER_SEX_JT, CONTACT_EMAIL_JT, CONTACT_PHONE_JT) VALU...	1 row(s) affected
✓	22	14:35:13	INSERT INTO REGISTRATION_JT (TEAM_ID_JT, DIVISION_ID_JT, SEASON_ID_JT) VALUES ((SELECT TEAM_ID_JT FROM TEAM_JT WHE...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0
✓	23	14:35:13	INSERT INTO REGISTRATION_JT (TEAM_ID_JT, DIVISION_ID_JT, SEASON_ID_JT) VALUES ((SELECT TEAM_ID_JT FROM TEAM_JT WHE...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0

## Task 5 - Query the Data by James Tourtellotte

Input 1/4:

```
125      -- Task number 5 by James Tourtellotte  --
126
127      -- emails for spring teams --
128
129  •  SELECT
130      T.NAME_JT AS name,
131      T.CONTACT_EMAIL_JT AS email
132  FROM
133      TEAM_JT T
134  JOIN
135      REGISTRATION_JT R ON T.TEAM_ID_JT = R.TEAM_ID_JT
136  JOIN
137      SEASON_JT S ON R.SEASON_ID_JT = S.SEASON_ID_JT
138  WHERE
139      S.SEASON_NAME_JT = 'Spring 2019'
140  ORDER BY
141      T.NAME_JT ASC;
142
```

Input 2/4 :

```
-- list divisions task --

SELECT
    D.AGE_JT AS age,
    D.PLAYER_SEX_JT AS gender,
    D.RANK_JT AS divrank,
    D.CONTACT_PHONE_JT AS phone,
    S.SEASON_NAME_JT AS season
FROM
    DIVISION_JT D
JOIN
    REGISTRATION_JT R ON D.DIVISION_ID_JT = R.DIVISION_ID_JT
JOIN
    SEASON_JT S ON R.SEASON_ID_JT = S.SEASON_ID_JT
WHERE
    EXISTS (
        SELECT 1
        FROM TEAM_JT T
        WHERE T.NAME_JT = 'Red'
        AND R.TEAM_ID_JT = T.TEAM_ID_JT
    )
ORDER BY
    D.RANK_JT;
```

Task 5 - continued  
Input 3/4

```
-- list eagles teams and divisions 2019 spring --
```

- ```
SELECT
    T.NAME_JT AS team_name,
    D.AGE_JT AS age,
    D.PLAYER_SEX_JT AS gender,
    D.RANK_JT AS divrank
FROM
    TEAM_JT T
JOIN
    CLUB_JT C ON T.CLUB_ID_JT = C.CLUB_ID_JT
JOIN
    REGISTRATION_JT R ON T.TEAM_ID_JT = R.TEAM_ID_JT
JOIN
    DIVISION_JT D ON R.DIVISION_ID_JT = D.DIVISION_ID_JT
JOIN
    SEASON_JT S ON R.SEASON_ID_JT = S.SEASON_ID_JT
WHERE
    C.NAME_JT = 'Eagles'
AND
    S.SEASON_NAME_JT = 'Spring 2019';
```

Input 4/4

```
-- spring 12 and under
```

- ```
SELECT
    T.NAME_JT AS team_name,
    C.NAME_JT AS club_name,
    T.BIRTH_YEAR_JT AS year_of_birth
FROM
    TEAM_JT T
JOIN
    CLUB_JT C ON T.CLUB_ID_JT = C.CLUB_ID_JT
JOIN
    REGISTRATION_JT R ON T.TEAM_ID_JT = R.TEAM_ID_JT
JOIN
    DIVISION_JT D ON R.DIVISION_ID_JT = D.DIVISION_ID_JT
JOIN
    SEASON_JT S ON R.SEASON_ID_JT = S.SEASON_ID_JT
WHERE
    D.AGE_JT <= 12
AND
    S.SEASON_NAME_JT = 'Spring 2019';
```



## Task 5 - Continued

### Output:

✓	24	14:35:13	SELECT	T.NAME_JT AS name,	T.CONTACT_EMAIL_JT AS email	FROM	TEAM_JT T	JOIN	REGISTRATION_JT R	ON T.TEAM_ID_...	4 row(s) returned
✓	25	14:35:13	SELECT	D.AGE_JT AS age,	D.PLAYER_SEX_JT AS gender,	D.RANK_JT AS divrank,	D.CONTACT_PHONE_JT AS phone,	S.SEA...			2 row(s) returned
✓	26	14:35:13	SELECT	T.NAME_JT AS team_name,	D.AGE_JT AS age,	D.PLAYER_SEX_JT AS gender,	D.RANK_JT AS divrank	FROM	TEAM_J...		4 row(s) returned
✓	27	14:35:13	SELECT	T.NAME_JT AS team_name,	C.NAME_JT AS club_name,	T.BIRTH_YEAR_JT AS year_of_birth	FROM	TEAM_JT T	JOIN	...	2 row(s) returned