

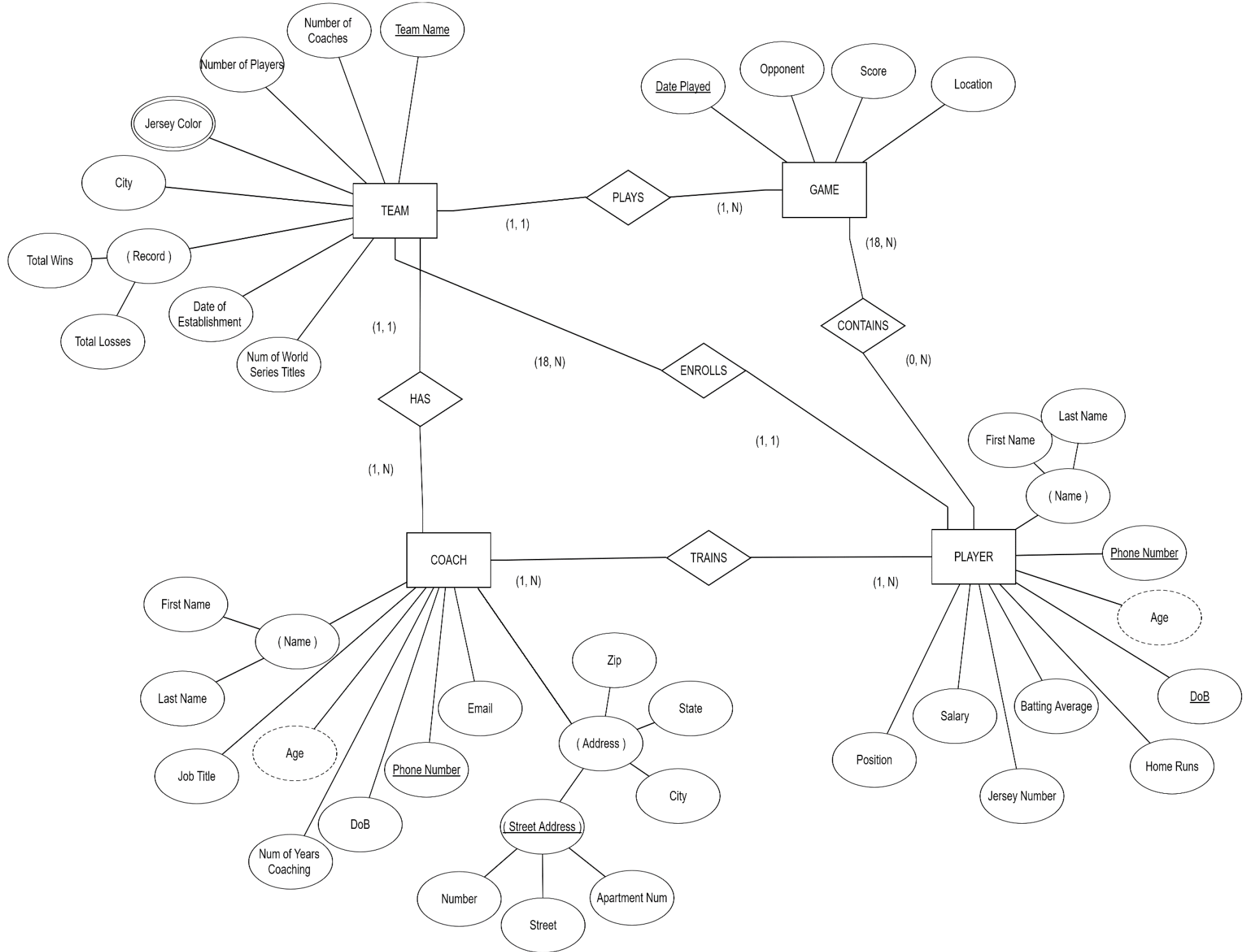


A LEAGUE OF OUR OWN

ASSIGNMENT 4 SQL Database

Leader: Owen, Zachary	CWID: 889-580-841
Vu, Don	CWID: 890-993-603
Wolf, Eric	CWID: 892-182-064

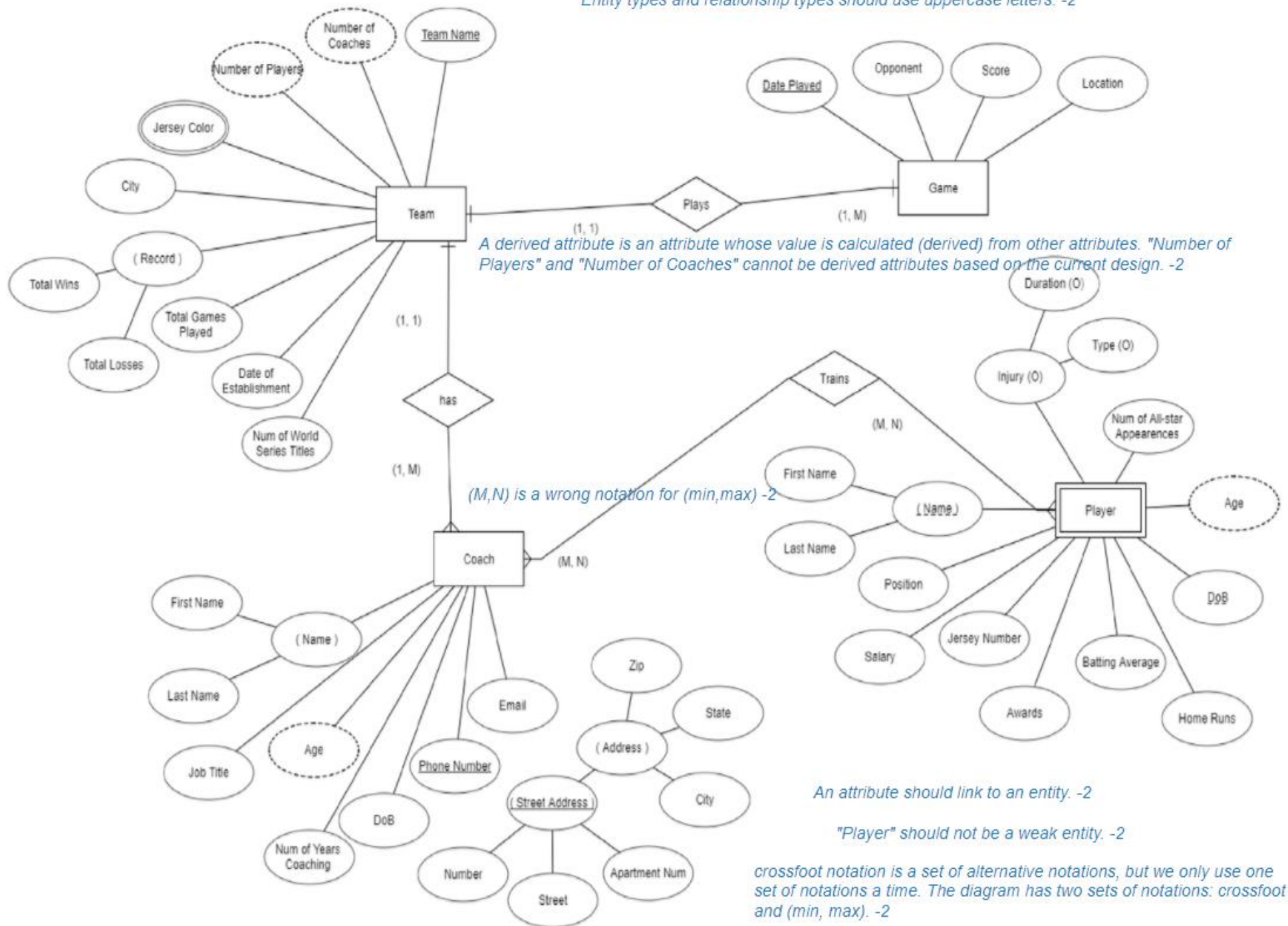
Account: cs332g18
Database: cs332g18



NEW ER DIAGRAM

ER Diagram

Entity types and relationship types should use uppercase letters. -2



Previous ER Diagram

GAME

<u>Date Played</u>	Opponent	Score	Stadium	T_Name
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TEAM

Num_Of_World_Series_Titles	Date_Of_Establishment	Total_Losses	Total_Wins	City	Jersey_Color	Number_Of_Players	Number_Of_Coaches	<u>Team Name</u>
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PLAYER

Position	Salary	Jersey_Number	Batting_Average	Home_Runs	<u>DoB</u>	<u>Phone_Number</u>	First_Name	Last_Name
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COACH

First_Name	Last_Name	Job_Title	Num_Of_Years_Coaching	Dob	<u>Phone Number</u>	Email	Number	Street	Apartment_Num	City	State	Zip	T_Name
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HAS

<u>Team Name</u>	<u>PPhone Number</u>
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PLAYED

<u>T_Name</u>	<u>Date Played</u>
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CONTAINS

<u>Date Played</u>	<u>PPhone Number</u>
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TRAINS

<u>CPhone Number</u>	<u>PPhone Number</u>
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ENROLLS

<u>Team Name</u>	<u>PPhone Number</u>
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DDL Statements for Create Table:

```
CREATE TABLE TEAM (  
    Team_Name VARCHAR(30) NOT NULL,  
    Number_Of_Coaches INT,  
    Number_Of_Players INT,  
    Jersey_Color VARCHAR(30),  
    City VARCHAR(30),  
    Total_Wins INT, -- Derives record  
    Total_Losses INT, -- Derives record  
    Date_Of_Establishment DATE,  
    Num_Of_World_Series_Titles INT,  
  
    PRIMARY KEY (Team_Name)  
);  
  
CREATE TABLE GAME (  
    Date_Played DATE NOT NULL,  
    Opponent VARCHAR(30),  
    Score VARCHAR(30),  
    Stadium VARCHAR(30),  
    T_Name VARCHAR(30),  
  
    PRIMARY KEY (Date_Played),  
    FOREIGN KEY (T_Name) REFERENCES TEAM(Team_Name)  
);  
  
CREATE TABLE COACH (  
    First_Name VARCHAR(30), -- Coach_Derives name  
    Last_Name VARCHAR(30), -- Coach_Derives name  
    Job_Title VARCHAR(30),  
    Age INT,  
    Num_Of_Years_Coaching INT,  
    Dob DATE,  
    Phone_Number CHAR(10) NOT NULL,  
    Email VARCHAR(50),  
    T_Name VARCHAR(30),  
  
    Zip CHAR(5), -- Derives address  
    Coach_State CHAR(2), -- Derives address  
    City CHAR(30), -- Derives address  
    Number INT, -- Derives street address  
    Street VARCHAR(30), -- Derives street address  
    Apartment_Num VARCHAR(30), -- Derives street address  
  
    PRIMARY KEY (Phone_Number),  
    FOREIGN KEY (T_Name) REFERENCES TEAM(Team_Name)  
);  
  
CREATE TABLE PLAYER(  
    First_Name VARCHAR(30), -- Derives name  
    Last_Name VARCHAR(30), -- Derives name  
    Position VARCHAR(30),  
    Salary DECIMAL(10,2),  
    Jersey_Number INT,
```

```

        Batting_Average VARCHAR(4),
        Home_Runs INT,
        Dob DATE,
        Age INT,
        Phone_Number CHAR(10) NOT NULL,

        PRIMARY KEY (Phone_Number, Dob)
    );

CREATE TABLE HAS(
    Team_Name VARCHAR(30) NOT NULL,
    CPhone_Number CHAR(10) NOT NULL,

    PRIMARY KEY (Team_Name, CPhone_Number),
    FOREIGN KEY (Team_Name) REFERENCES TEAM(Team_Name),
    FOREIGN KEY (CPhone_Number) REFERENCES COACH(Phone_Number)
);

CREATE TABLE TRAINS(
    CPhone_Number CHAR(10) NOT NULL,
    PPhone_Number CHAR(10) NOT NULL,
    Dob DATE,

    PRIMARY KEY (CPhone_Number, PPhone_Number),
    FOREIGN KEY (CPhone_Number) REFERENCES COACH(Phone_Number),
    FOREIGN KEY (PPhone_Number, Dob) REFERENCES PLAYER(Phone_Number, Dob)
);

CREATE TABLE ENROLLS(
    Team_Name VARCHAR(30) NOT NULL,
    PPhone_Number CHAR(10) NOT NULL,
    Dob DATE,

    PRIMARY KEY (Team_Name, PPhone_Number),
    FOREIGN KEY (Team_Name) REFERENCES TEAM(Team_Name),
    FOREIGN KEY (PPhone_Number, Dob) REFERENCES PLAYER(Phone_Number, Dob)
);

CREATE TABLE PLAYS(
    T_Name VARCHAR(30) NOT NULL,
    Date_Played DATE NOT NULL,

    PRIMARY KEY (T_Name, Date_Played),
    FOREIGN KEY (T_Name) REFERENCES TEAM(Team_Name),
    FOREIGN KEY (Date_Played) REFERENCES GAME(Date_Played)
);

CREATE TABLE CONTAINS_(
    Date_Played DATE NOT NULL,
    PPhone_Number CHAR(10) NOT NULL,
    Dob DATE NOT NULL,

    PRIMARY KEY (Date_Played, PPhone_Number),
    FOREIGN KEY (Date_Played) REFERENCES GAME(DATE_PLAYED),
    FOREIGN KEY (PPhone_Number, Dob) REFERENCES PLAYER(Phone_Number, Dob);

```