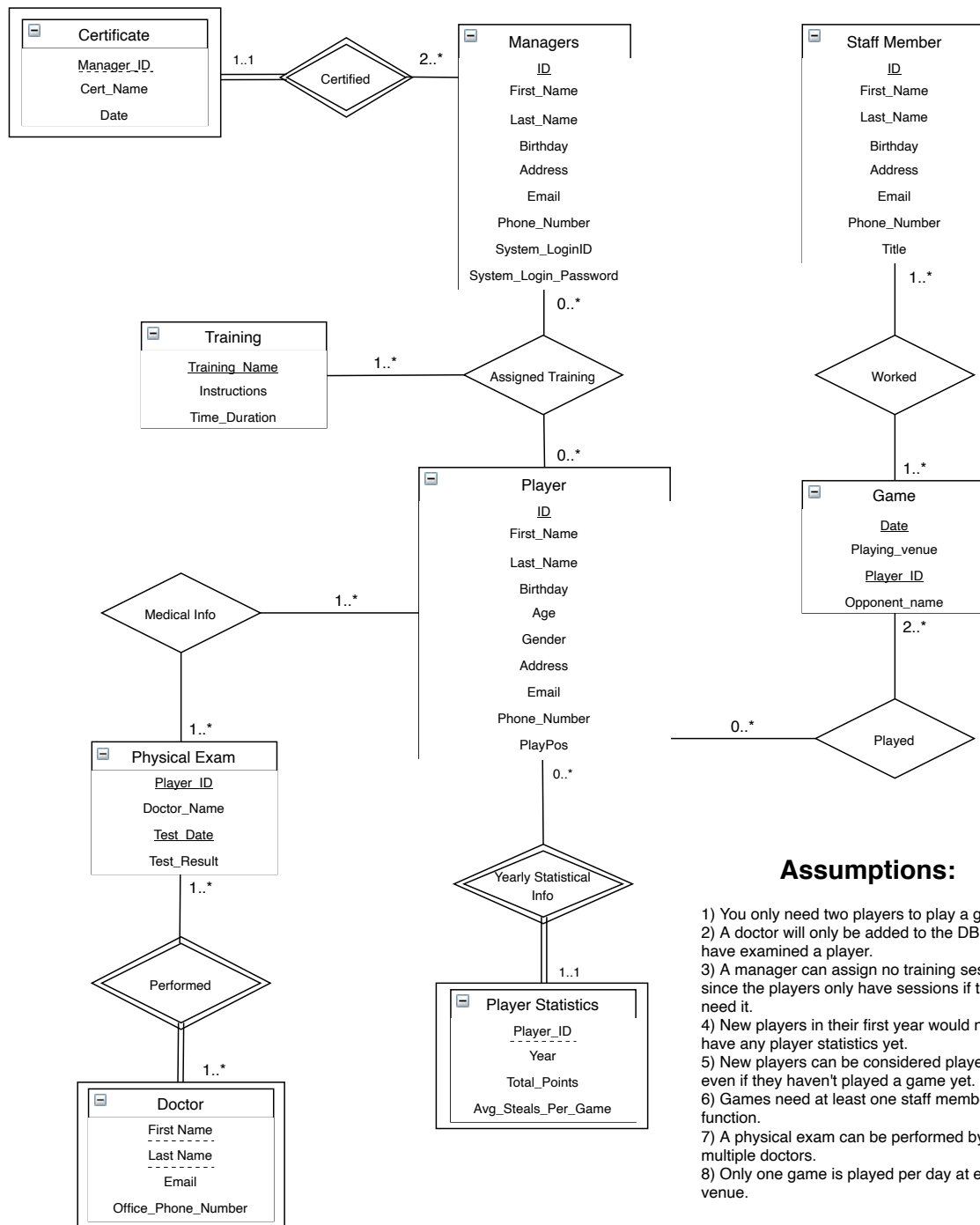


Entity-Relationship Model of NMSU Basketball DB Schema



Assumptions:

- 1) You only need two players to play a game.
- 2) A doctor will only be added to the DB if they have examined a player.
- 3) A manager can assign no training sessions, since the players only have sessions if they need it.
- 4) New players in their first year would not have any player statistics yet.
- 5) New players can be considered players even if they haven't played a game yet.
- 6) Games need at least one staff member to function.
- 7) A physical exam can be performed by multiple doctors.
- 8) Only one game is played per day at each venue.

Relational Table Translation

Certificate (ID, Manager_ID, Cert_Name, Date) count (Manager_ID) > 1

foreign key Managers(ID) on delete cascade

Managers (ID, First_Name, Last_Name, Birthday, Address, Email, Phone_Number, System_LoginID, System_Login_Password)

Staff Member (ID, First_Name, Last_Name, Birthday, Address, Email, Phone_Number, Tittle)

Assigned Training(Managers.ID, Training.Training_Name, Player.ID)

Training (Training_Name, Instructions, Time_Duration)

Player (ID, First_Name, Last_Name, Birthday, Age, Gender, Address, Email, Phone_Number, PlayPos)

Worked (Staff Member.ID, Game.Date, Game.Player_ID)

Game (Date, Playing_Venue, Player_ID, Opponent_Name)

Played (Game.Date, Game.Player_ID, Player.ID)

Physical Exam (Player_ID, Doctor_Name, Test_date, Test_Result)

Medical Info (Player.ID, Physical Exam.Player_ID, Test_Date)

Doctor (Player_ID, Test_Date, First_Name, Last_Name, Email, Office_Phone_Number)

foreign key Physical Exam(Player_ID) on delete cascade

Player Statistics (ID, Player_ID, Year, Total_Points, Avg_Steals_Per_Game)

foreign key Player(ID) on delete cascade