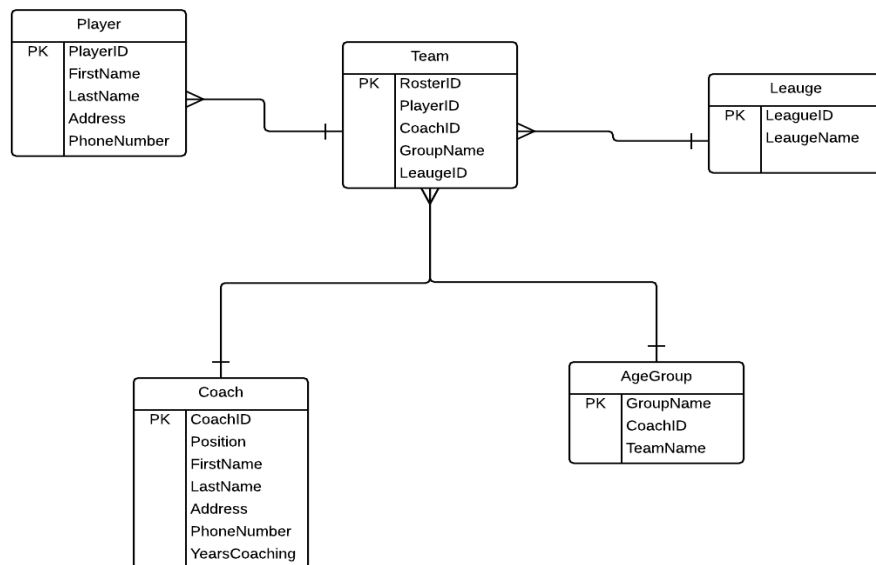Gregory Lyall

Database Management

Professor Reevas

Lab 9

1) Identify and document all function dependencies.
   a. PlayerID |-> FirstName, LastName, Address, Phone #
   b. CoachID|->Position, FirstName, LastName, address phone #,Years Coaching
   c. RosterID |-> PlayerID, CoachID , GroupName, LeagueID
   d. LeagueID |-> LeagueName
   e. GroupName |-> CoachID , TeamName
2) Draw a full annotated E/R diagram that illustrate the Platonic ideal of beautiful and correct relational database design

Player

PK	PlayerID
	FirstName
	LastName
	Address
	PhoneNumber

Team

PK	RosterID
	PlayerID
	CoachID
	GroupName
	LeaugeID

Leauge

PK	LeagueID
	LeaugeName

Coach

PK	CoachID
	Position
	FirstName
	LastName
	Address
	PhoneNumber
	YearsCoaching

AgeGroup

PK	GroupName
	CoachID
	TeamName

a.

3) Convince me that your database is in 3NF (or even better in Boyce-Cod Normal Form).
   a. I believe this E/R diagram in in 3NF, a Team can only belong to 1 league, A Team can have many players. A player can only belong to 1 team. A Coach can have many teams but only 1 per league. There is no shared data expect the Primary Key.