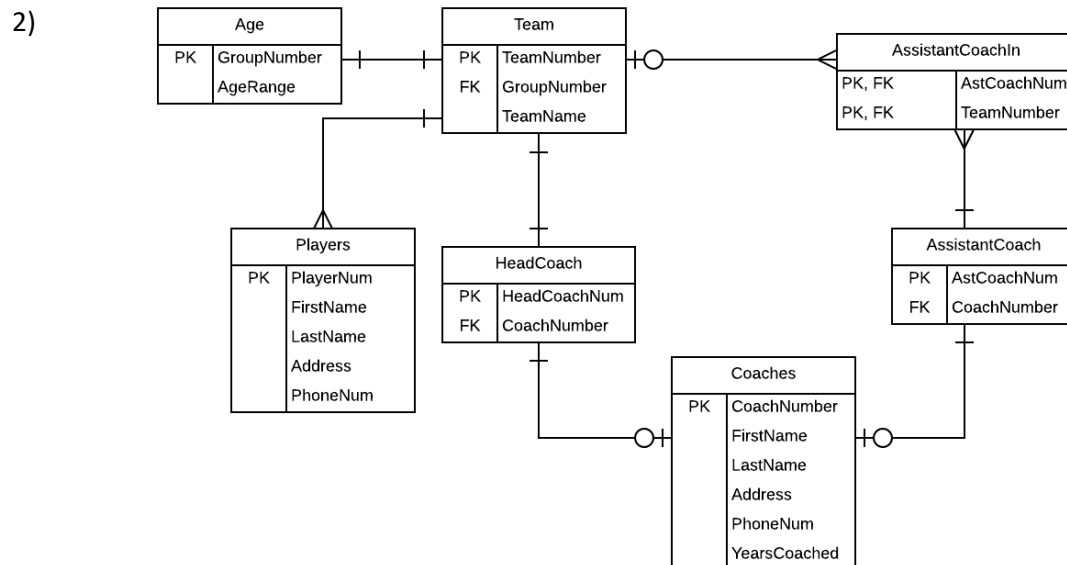Eric Schmidt

1)   Functional Dependencies:

- Age Table:
  - GroupNumber -> AgeRange
- Team Table:
  - TeamNumber -> GroupNumber, TeamName
- Players Table:
  - PlayerNum -> FirstName, LastName, Address, PhoneNum
- HeadCoach Table:
  - HeadCoachNum -> CoachNumber
- AssistantCoachIn Table:
  - AstCoachNum -> TeamNumber
- AssistantCoach Table:
  - AstCoachNum ->CoachNumber
- Coaches Table:
  - CoachNumber -> FirstName, LastName, Address, PhoneNum, YearsCoached

2)

3) 3rd Normal Form must first be proven to be 2nd normal form and therefore also 1st normal form. It is in 1st normal form because all values are atomic and each attribute contains only one value. It is also in 2nd normal form because it meets 1st normal form rulings and everything is functionally dependent on a primary key. The diagram is in 3rd normal form because it meets the 2nd normal form requirement and every attribute is dependent on the one key and nothing else. It is also in Boyce Codd normal form because there are no multiple overlapping candidate keys.