

## 1. Functional Dependencies

people.PID  $\rightarrow$  firstName, lastName, address, phoneNum

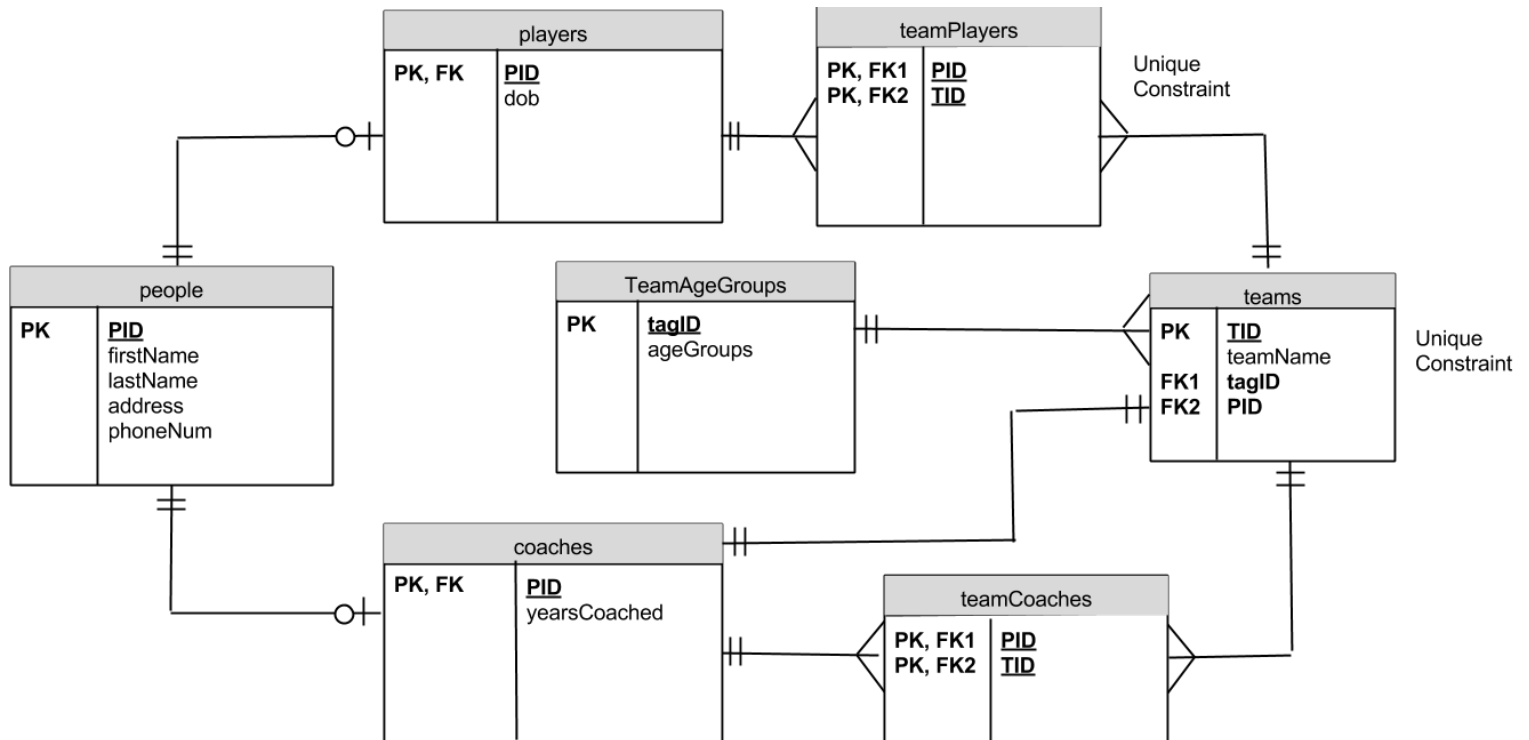
players.PID  $\rightarrow$  dob

teamAgeGroups.tagID  $\rightarrow$  ageGroups

coaches.PID  $\rightarrow$  yearsCoached

teams.TID  $\rightarrow$  teamName

## 2. ER Diagram



3. This database is in 3NF because it meets all of the requirements for 1NF, 2NF and 3NF. There is a primary key for every table and every non-prime attribute is dependent upon the primary key.

4.

```
create view TenToFourteen
as
select name
from teams
where teams.tag = (select teamAgeGroups.tag
                   from teamAgeGroups
                   where ageGroups = '10-14')
```