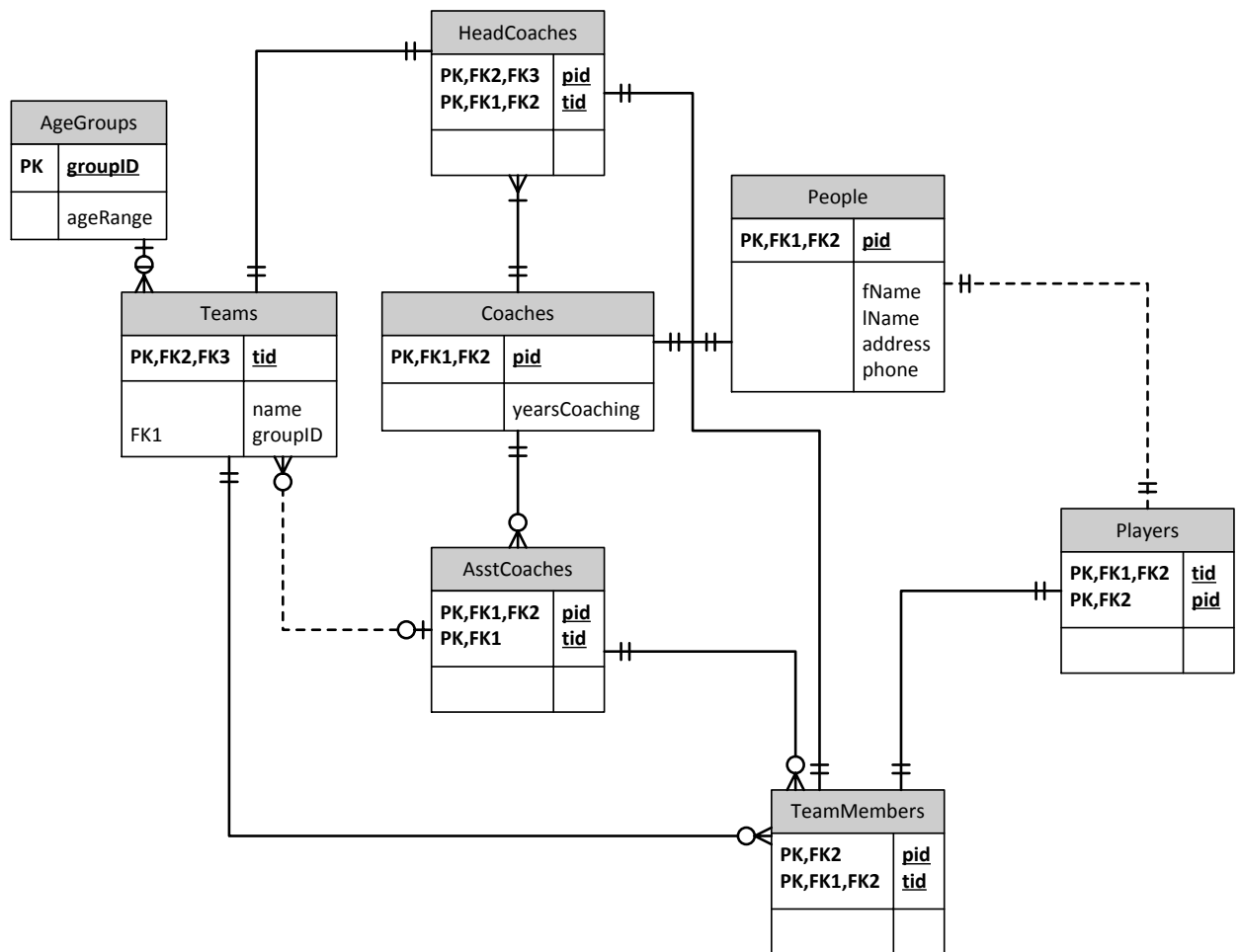David Gunter

Database Systems

Professor Labouseur

11 November 2013

Normalization #3

1.

2. **People**
   pid → fName, lName, address, phone

   Coaches
   pid → yearsCoaching

HeadCoaches
Pid, tid →

AsstCoaches
Pid, tid →

Players
Pid, tid →

TeamMembers
Pid, tid →

Teams
Tid → name, groupID

AgeGroups
groupID → ageRange

3. All tables are in BCNF because of the functional dependencies upon the primary key. For example, a person's name and address are entirely dependent upon a person's pid because they are *attributes* of the pid and they cannot stand alone as keys.

4.

```
CREATE VIEW age10to14Teams
AS
      SELECT t.tid, t.name
      FROM Teams t
      WHERE groupID IN (
            SELECT a.groupID
            FROM AgeGroups a
            WHERE a.ageRange = "10to14"
      );
```