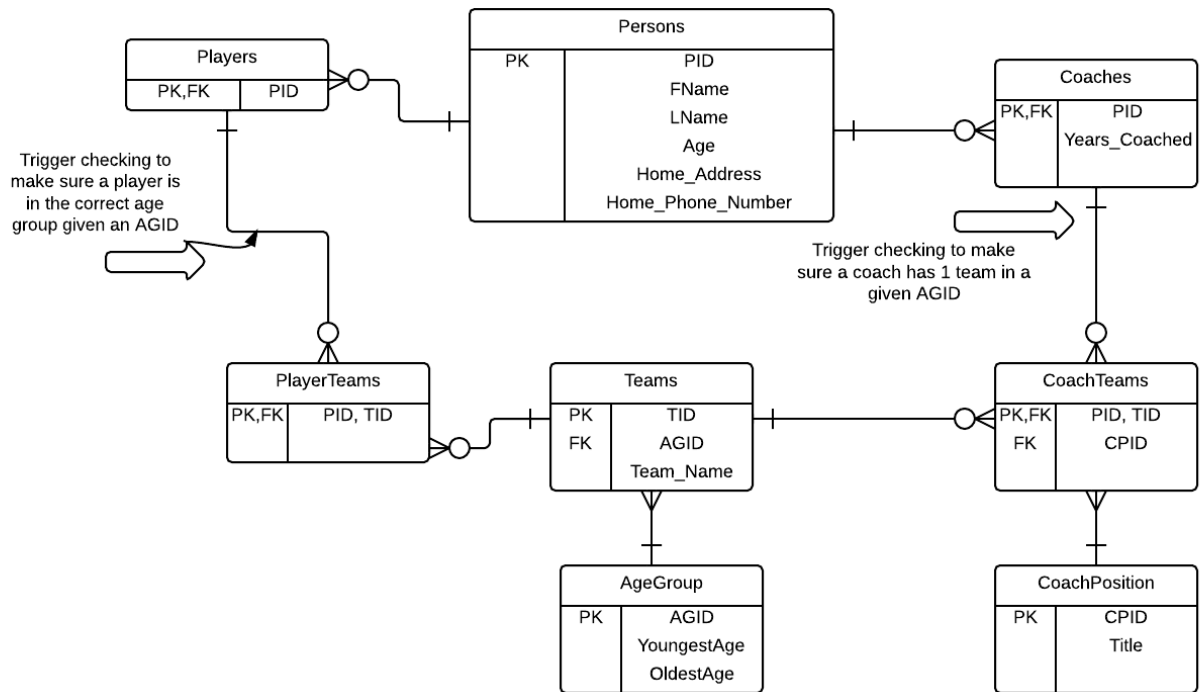


Bryan Rockwood

## Normalization 3

11/12/13



## Functional Dependencies

AgeGroup: AGID  $\rightarrow$  YoungestAge, OldestAge

Teams: TID  $\rightarrow$  Team\_Name

Persons: PID  $\rightarrow$  FName, LName, Age, Home\_Address, Home\_Phone\_Number

CoachPosition: CPID  $\rightarrow$  Title

CoachTeams: PID, TID  $\rightarrow$  Teams TID, Coach PID

PlayerTeams: PID, TID  $\rightarrow$  Teams TID, Players PID

### **Why is the diagram 3NF?**

This diagram is in 3NF because each there is no attribute is left without a key. Each key is reliant on data from other tables, creating referential integrity across the board. With PID being a large primary key for the diagram, it solves many problems regarding functional dependencies. So help me Codd this is in 3NF, not yet Boyce-Codd, but almost.

### **The View**

```
CREATE VIEW Teams_Ten_to_Fourteen_Age_Groups AS
```

```
SELECT t.TID, t.Team_Name
```

```
FROM Teams t, AgeGroup a
```

```
WHERE a.YoungestAge = 10
```

```
AND a.OldestAge >14
```

```
And t.AGID = a.AGID
```