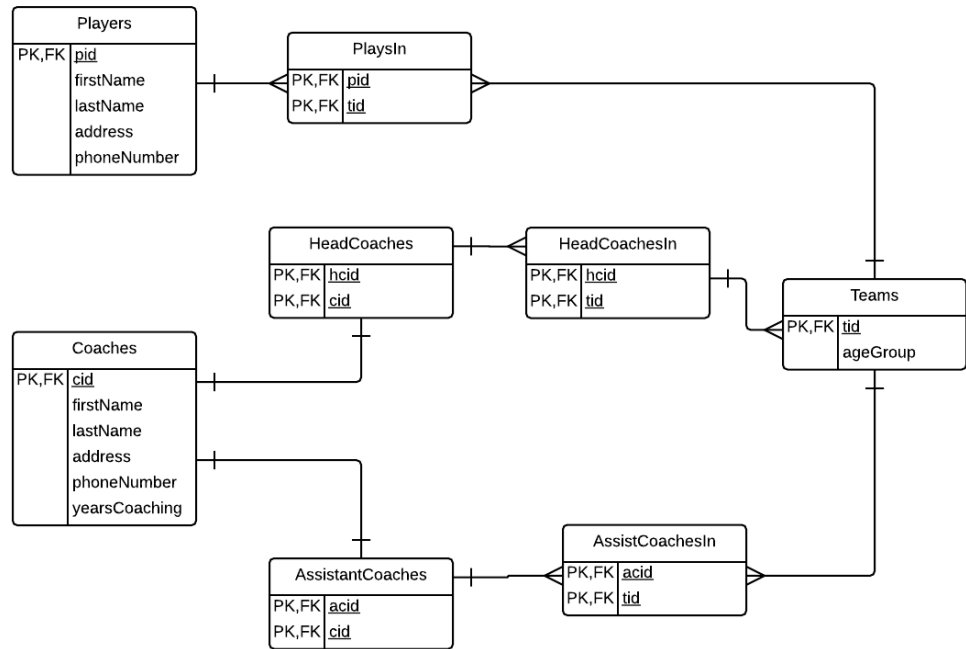


Lab 9: Normalization 3: A Machine for Craigs

1.
  - a. Players
    - i. Pid  $\rightarrow$  firstName, lastName, address, phoneNumber
  - b. Coaches
    - i. cid  $\rightarrow$  firstName, lastName, address, phoneNumber, yearsCoaching
  - c. PlaysIn
    - i. Pid  $\rightarrow$  tid
  - d. HeadCoaches
    - i. Hcid  $\rightarrow$  cid
  - e. AssistantCoaches
    - i. Acid  $\rightarrow$  cid
  - f. HeadCoachesIn
    - i. Hcid  $\rightarrow$  tid
  - g. AssistCoachesIn
    - i. Acid  $\rightarrow$  tid
  - h. Teams
    - i. Tid  $\rightarrow$  ageGroup



2.

3. My database is 3<sup>rd</sup> NF because:

- a. All data is atomic, therefore satisfying 1NF.
- b. All rows are unique, therefore satisfying 2NF.
- c. There is no transitive functional dependency, therefore satisfying 3NF.