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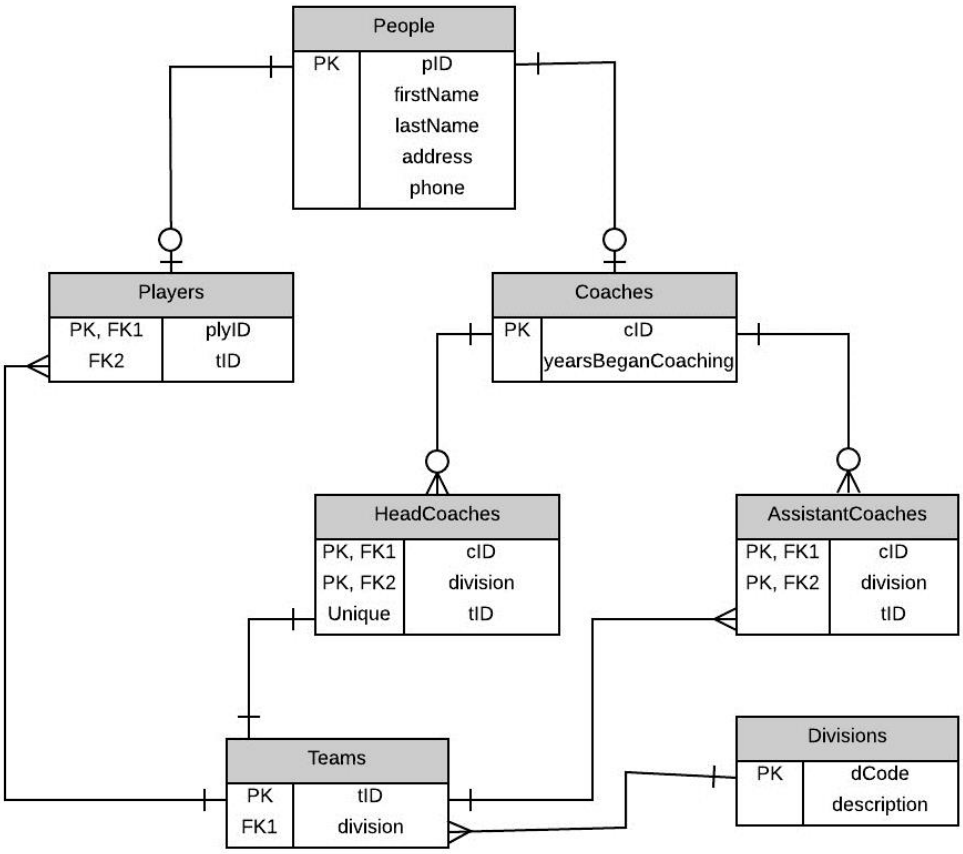
Normalization HW 3

11/11/13

- Functional Dependencies:
  - People: pID → firstName, lastName, address, phone
  - Players: plyID → tID
  - Coaches: cID → yearsBeganCoaching
  - HeadCoaches: (cID, division) → tID
  - AssistantCoaches: (cID, division) → tID
  - Teams: tid → division
  - Divisions: dCode → description
- ER Diagram:



- My database is in 3NF because it is in 1st and 2nd NF. It is in 1st NF because it complies with Relational Rule #1. Every intersection of a row and column is atomic. It's in 2nd NF because there are no partial key dependencies. Finally, it is in 3NF because there are no multiple key dependencies. In other words, all non-key attributes are determined by the whole key and nothing but the key.
- create view "10to14Teams"
  as
  select * from Teams
  where division in (
  select dCode from Divisions
  where description = '10 to 14'
  );