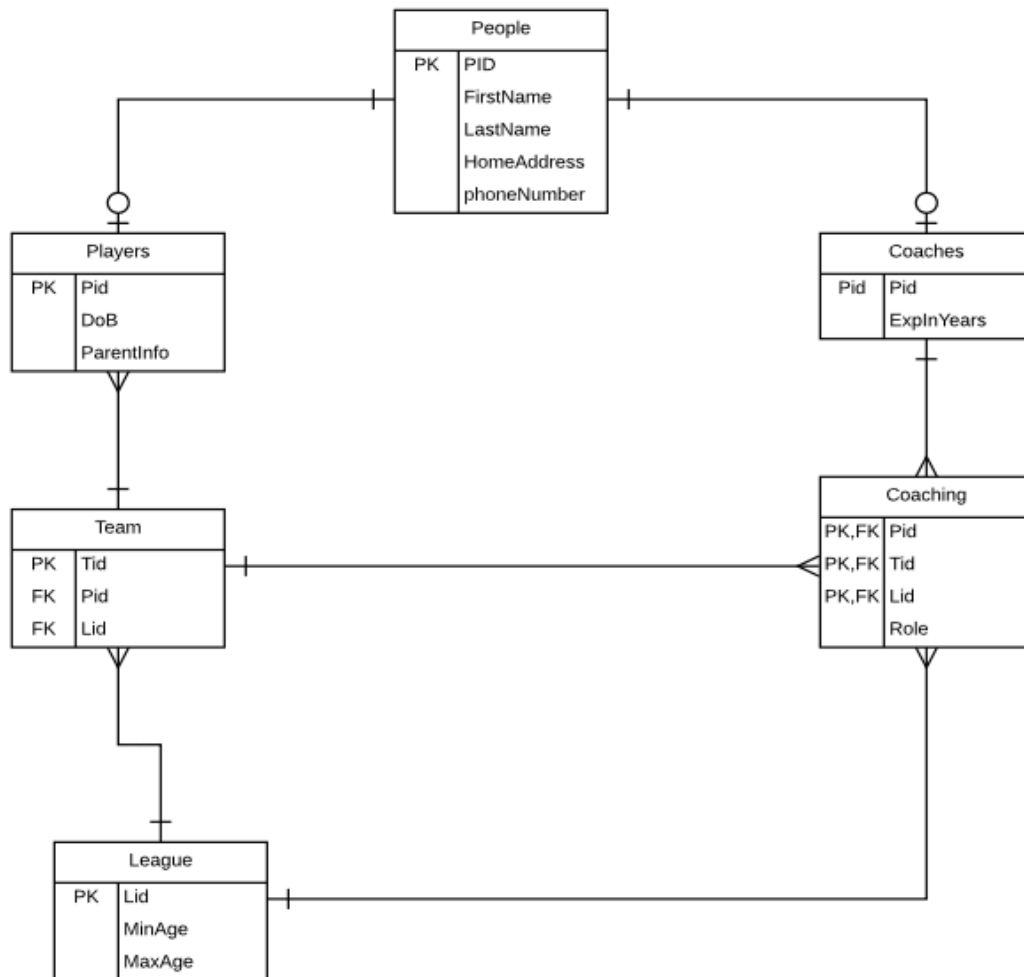


Mark Rajovic  
Database Management  
Lab 9 Normalization 3

1. Functional Dependencies

- People
  - i.  $Pid \rightarrow FirstName, LastName, HomeAddress, phoneNumber$
- Players
  - i.  $Pid \rightarrow DoB, ParentInfo$
- Coaches
  - i.  $Pid \rightarrow ExplnYears$
- League
  - i.  $Lid \rightarrow MinAge, MaxAge$
- Coaching
  - i.  $Pid, Tid, Lid \rightarrow Role$

2. E/R Diagram



3. 3NF reasoning and description

This database is in 3NF. This is because it is in 2NF and every attribute is dependent on the key and nothing but the whole key. The database is in 2NF because it is already in 1NF and each component is functionally dependent upon its primary key. Lastly, the data is in 1NF because all intersections contain only one value and are atomic. For all of these reasons, it is clear that the database created for Belters Little League Sports Alliance on Ceres Station is currently in 3NF.