

Script:

```
DROP TABLE IF EXISTS People;  
DROP TABLE IF EXISTS Players;  
DROP TABLE IF EXISTS Coaches;  
DROP TABLE IF EXISTS HeadCoach;  
DROP TABLE IF EXISTS AssistantCoach;  
DROP TABLE IF EXISTS Teams;  
DROP TABLE IF EXISTS AgeGroups;
```

-- People --

```
CREATE TABLE People (  
  pid                serial,  
  firstName          text not null,  
  lastName           text not null,  
  address            text not null,  
  phoneNumber        int,  
  primary key(pid)  
);
```

-- Players --

```
CREATE TABLE Players (  
  pid                serial references People(pid),  
  tid                serial references Teams(tid),  
  primary key(pid)  
);
```

-- Coaches --

```
CREATE TABLE Coaches (  
  pid                serial references People(pid),  
  yearsCoaching      int not null,  
  primary key(pid)  
);
```

-- HeadCoach --

```
CREATE TABLE HeadCoach (  
  pid                serial references People(pid),  
  tid                serial references Teams(tid),  
  primary key(pid)  
);
```

-- AssistantCoach --

```
CREATE TABLE AssistantCoach (  
  pid                serial references People(pid),  
  tid                serial references Teams(tid),  
  primary key(pid)  
);
```

```
-- Teams --  
CREATE TABLE Teams (  
  tid          serial,  
  aid          serial references ageGroups(aid),  
  name        text not null,  
  primary key(tid)  
);
```

```
-- AgeGroups --  
CREATE TABLE AgeGroups (  
  aid          serial,  
  playableAge  text not null,  
  primary key(pid)  
);
```

1) Functional Dependencies:

People.pid \rightarrow firstName, lastName, address, phoneNumber are dependent

Players.pid \rightarrow tid

Coaches.pid \rightarrow yearsCoaching

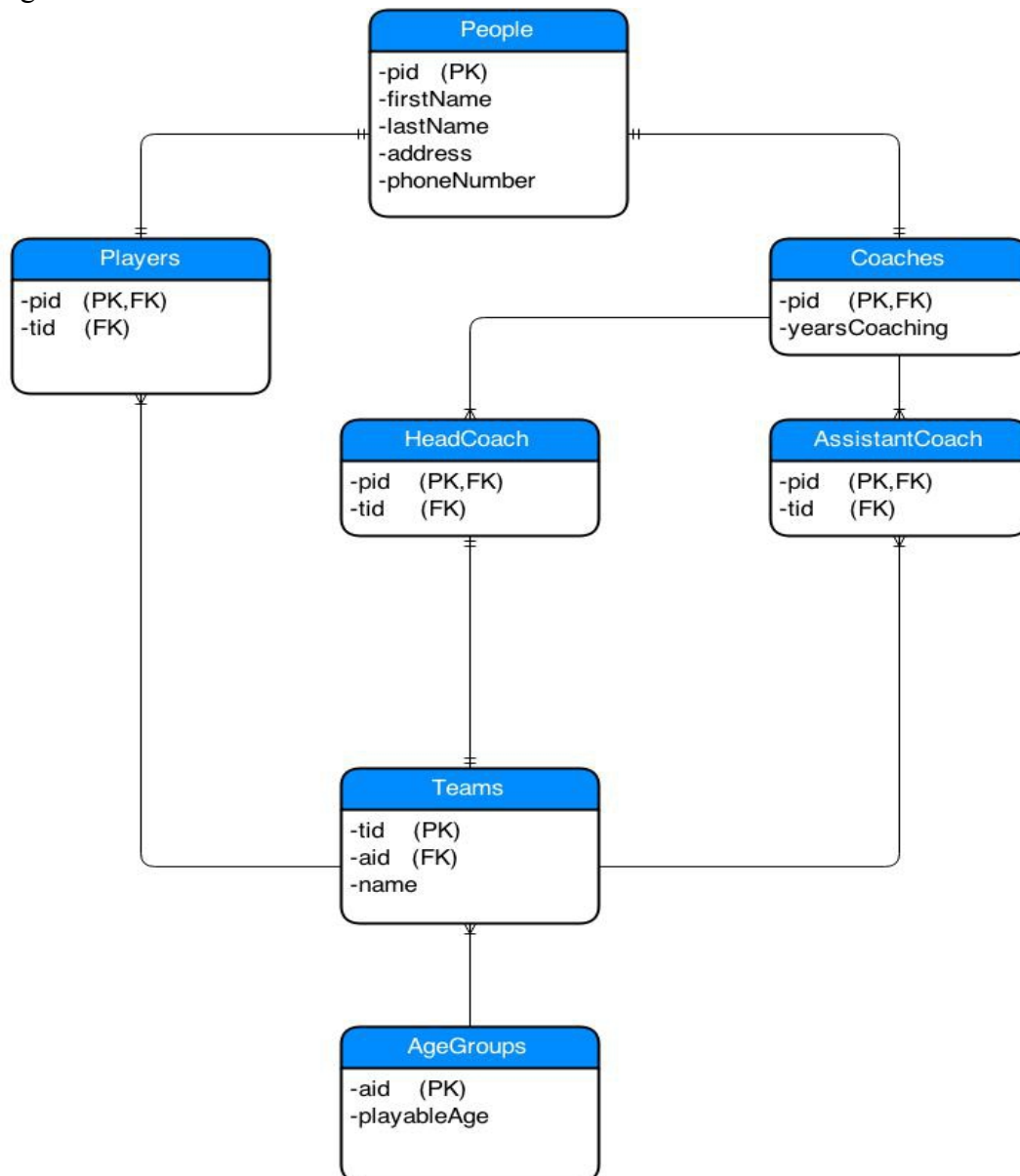
HeadCoach.pid \rightarrow tid

AssistantCoach.pid \rightarrow tid

Teams.tid \rightarrow aid,name

AgeGroups.aid \rightarrow playableAge

2: E/R Diagram:



3) It is in third normal form because all columns that are non-primary keys are purely dependent on the primary key in its table