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Lab 9

04/06/2017

1. Functional Dependencies:

People: $PID \rightarrow FirstName, LastName, Address, PhoneNumber$

Players: $PID, TeamID \rightarrow HeightIN, WeightLBS$

Coaches: $PID, RoleID \rightarrow YearsCoaching$

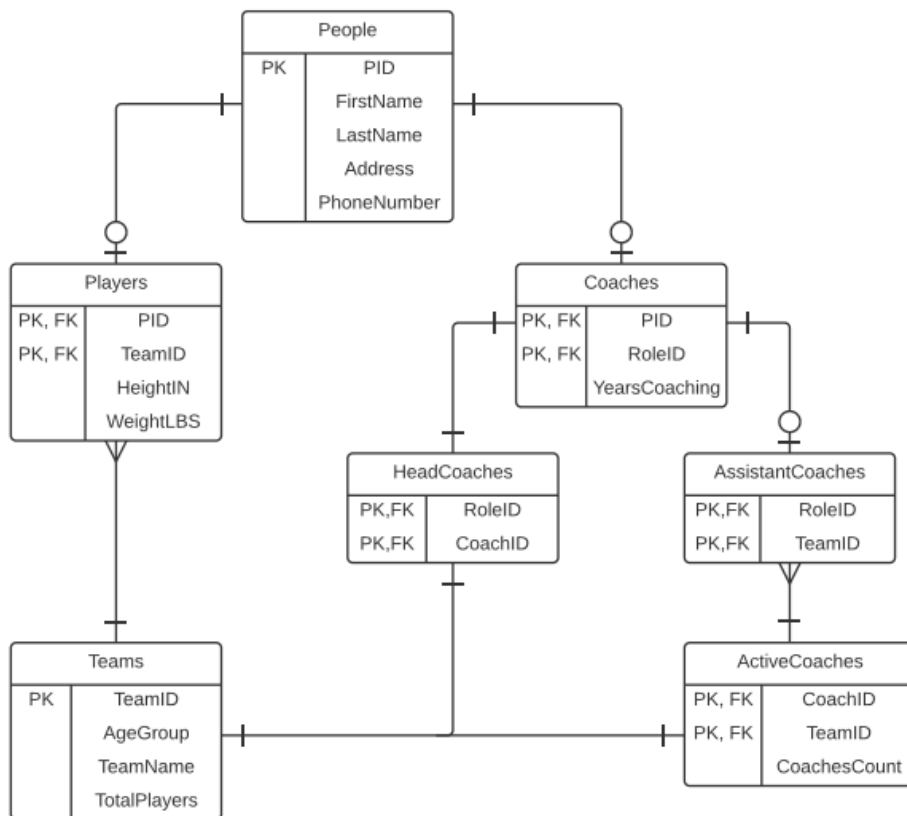
HeadCoaches: $RoleID, CoachID \rightarrow none$

AssistantCoaches: $RoleID, TeamID \rightarrow none$

Teams: $TeamID \rightarrow AgeGroup, TeamName, TotalPlayers$

ActiveCoaches: $CoachID, TeamID \rightarrow CoachesCount$

2.



3. This database is in 3NF and BCNF because it is in 1NF and 2NF. The intersection of all rows and columns are atomic. There are no partial key dependencies and no multi-key dependencies. There are no transitive dependencies involving candidate keys which puts this database into BCNF.