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CMPT 308

Lab 9 -Normalization

1)

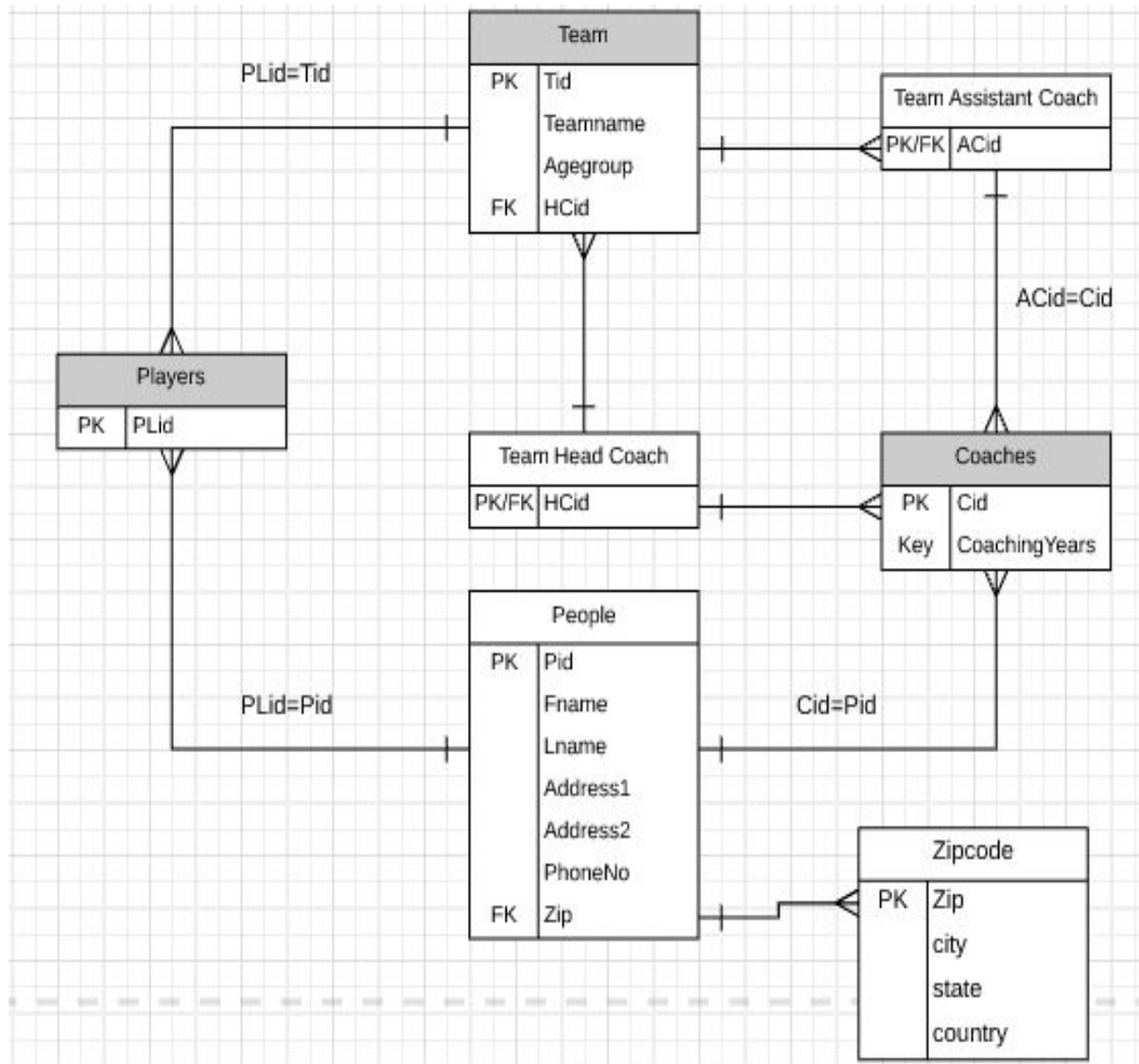


Fig: ER diagram for the Belters Little League Sports Alliance

2) Functional Dependencies

Team table

Tid → Teamname , Agegroup , HCid(head coaches ID)

People Table

Pid → Fname , Lname , Address1 ,Address2,PhoneNo

Coaches Table

Cid → Coachingyears

Team Assistant Coach Table

ACid →

Team Heach coach Table

HCid→

Players Table

PLid →

Zipcode Table

Zip → city ,state ,country

3)

The database is in 3NF because the intersection of all rows and Columns in Atomic, there is no partial and multiple Key dependencies.

Example of Multiple Key dependency - Zipcode

There is No transitive dependency amongst candidate keys so the database satisfies the **Boyce- Codd NF**.

