



Lab 9 – Teams – Kathy Coomes

People: pid → firstName, lastName, address, phone

Under10:

Age10To14:

Over14:

Coaches: pid → dateStartedCoaching

HeadCoaches:

AssistantCoaches:

Teams: tid → groupName, teamName

Lab 9 – Kathy Coomes – Convincing

1NF – all fields are atomic

2NF – is 1NF and there are no partial dependencies

3NF – is 2NF and there are no multi-key dependences on non-key attributes

BCNF – is 3NF and there are no multiple dependencies on candidate keys

There are no insert anomalies: we can add a person without adding anything else; and Under10, Age10T014, Over14, and Coaches are all “is a” with People; and HeadCoaches and AssistantCoaches are “is a” with Coaches;

We can add a Team without adding anything else;

There are no update anomalies as the same applies as insert anomalies;

There are no delete anomalies as the same applies as insert anomalies;

All data is represented.

We can join it all back together without loss.

There is no duplication.