

Name: Mohammed

Assignment: Normalization\_3

## Functional Dependencies:

People: (pid) → first\_name, last\_name, gender, address, contacts

Addresses: (aid) → street, city, zipcode, state

States: (sid) → name

Contacts: (cid) → number

Coaches: (pid) → start\_date

Ast\_coaches: (cid) → pid, tid

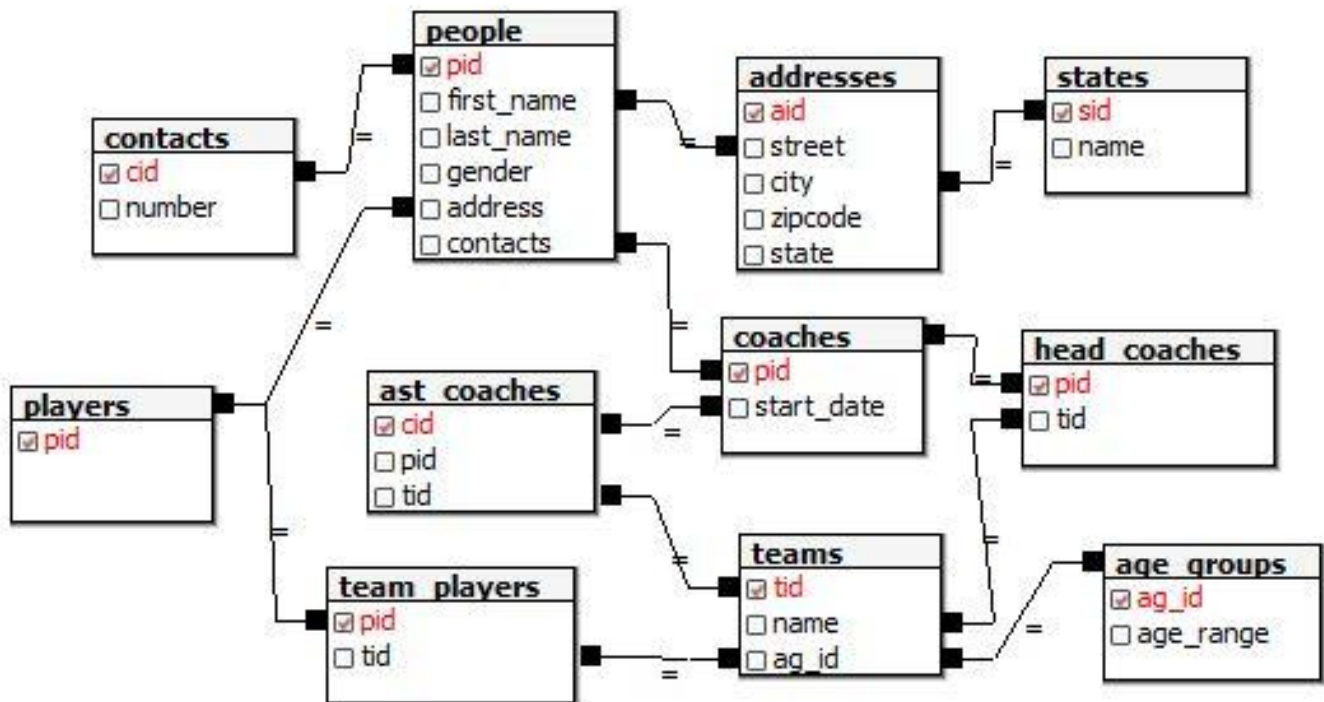
Head\_Coaches: (pid) → tid

Age\_Groups: (ag\_id) → age\_range

Team\_Players: (pid) → tid

Players: (pid) →

Teams: (tid) → name, ag\_id



This database is in 3NF because it is in 1NF and 2NF. 1NF because the intersection any given row and column is atomic, and every table has a primary key and it doesn't have any duplicate data. 2NF because there are no partial primary keys in any table and every non primary key attribute depends on the primary key. Therefore we can say that this database is in 3NF where everything depends on the key, nothing but key, the whole key.

## View Query:

```
create view teams_in_10_14
as
select t.name as "Teams Name"
from age_groups a, teams t
where a.ag_id = t.ag_id
and a.age_range = '10 through 14'
```

Query Result → “Big Machines”