

Assumptions regarding conceptual model

- A fitness centre can have at minimum, 0 members that have set it as their “home/main centre”. This is because a fitness centre could have just finished being constructed, and isn’t yet open for business, and we want to set it up and test it in the database beforehand, so that when it does open up for business, everything runs smoothly. Thus, we must allow for a fitness centre to exist in the database, even if it has zero members.
- I’m assuming a class can have a minimum of 0 members, because it could have just been created/scheduled, and members aren’t aware of it yet. Otherwise, a class couldn’t be stored in the database until AT LEAST one member joins it, which would be very poor database design.
- Each fitness centre, will have always have at minimum, at least one class (mock client explicitly stated that any fitness centre, even one under construction, will always have a class planned)

Notes:

- The “MEMBER” entity has min: 1, max: 1, cardinality in its relationship to “FITNESS_CENTER”, because of the “Home centre” rule, provided by the mock client.
- Member entity relates to itself, the cardinality (reads left to right, from referrEE, to referrER), means a member, the potential referrEE, can have been referred by either no-one, or one person, and the potential referrER, could have referred anywhere from no-one, to many.
- I decided not to make the “manager” role, a separate attribute (manager/not_manager), because this would be an extra column of data, which would take up a bit more space. It should be easy enough to find all managers, you can just filter role to only include “manager”, and boom, you have all managers anyway.