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CS 340

Database Project Proposal

Ideas:
Gym Database for Customers

We will be making a database representing a gym miniverse. A gym is a common area where people exercise in the same space. There are many gyms available for people to choose from. We felt that this environment would be a good candidate for a database since gyms would want keep track of who was using their facilities.

Entities:
- Member ID
- Name
- Gym Locations
- Phone Number

Relationships:

- Members have a name and many might share the same name. One to many
- Members will have unique ID's - only one ID per member. One to one
- Members can be part of many gym locations and many can be part of the same location. Many to many.
- A member can have many phone numbers, be it work, home. One to many

Proposed Changes

Entities
- Gym
- Member
- Employee
- Class

Relationships
- A Gym has many Members.
- Members can sign up for 1 or more Gym locations.
- A Gym has many Employees.
- An Employee must work in only 1 Gym.
- An Employee may teach 0 or more classes.

- A Class can be taught by 1 Employee.
- A Class can have 1 or more Members as participants
- Every Member can participate in 0 or more Classes