CS415

Tim Sprunger

November 17, 2017

Database Summary Report

The database I created for this project could be used by any gym or fitness organization around the world. All gyms need to keep records of their members, employees, classes, and trainers. Therefore, this database would be beneficial for any fitness facility.

This database would be used by a gym or fitness company that needs to keep track of information for each of its employees, members, classes, and trainers. When a company hires an employee, they can easily use this database to enter in all necessary information about that employee. Similarly, when any individual purchases a membership from a gym, they can quickly and efficiently be added to the database with any necessary information stored about that person. Also, this database is designed to be able to easily distinguish which of its employees are personal trainers. By characterizing certain employees as personal trainers, the gym can easily determine who is qualified to teach a fitness class. Finally, this database can easily keep track of each class that is offered, which trainer is teaching each class, and which members are in each class.

Each table in this database serves a specific purpose for this database. First, the employee table gives each employee a unique ID number and keeps track of that person’s name, address, hire date, and also how much money they are being paid per hour. Secondly, the member table gives each member a distinct ID number and keeps tracks of all members’ names, addresses, the date they joined the gym, who their trainer is (if they have one), and what class they are taking (if they are in one). Thirdly, the trainer table is important it distinguishes which of the gym’s employees is a personal trainer, and stores those individuals in a separate table. Fourthly, the class table is helpful because it gives each class a unique ID number and stores the name of each class, the days of the class, the time of the class, and which trainer is teaching the class. Lastly, the memberclass table is an associative entity table that was necessary to connect the member and class tables together without having a many to many relationship. The memberclass table shows the memberid and classid for each member who is in a class. The tables in this database were particularly designed to be most convenient for a gym to be able to easily extract whatever information they need out of the database.