

## Assignment 1 – Conceptual Data Modeling Assignment

- **Company:** Fit-4-Life Fitness Center in Clarion PA
- **Owners/Clients:** Arnold Starks & Maria Starks
- **Sources of Revenue:**
  - o Instructional Fitness Class Fees (*Largest Source of Revenue*)
  - o Initial Membership Fee Upon Joining Fit-4-Life
  - o Sale of Fitness Supplies (*Store Located in Center*) (*Carries Clothing/Nutritional Supplements*)
- **Problem:** As business has grown, the volume of paperwork associated with business/sales has substantially increased. In need of a system able to maintain records both timely and accurately.
- **Proposed Solution:** Create a DBMS that allows for swift and precise record collection/storage.

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- **Personnel/Employees:** Employees at Fit-4-Life fit into one of three total different roles:
    - o **Billing Clerks**
    - o **Administrative Personnel**
    - o **Fitness Instructors**

Both Arnold & Maria are fitness instructors.

Records of both past and present employees of the company are maintained. Information regarding said employees include:

- **Name, Address, Phone #, Hire Date, Position, Status(Current/Former Employee)**
  - **Identifier = Employee ID (Unique 5 digit #)**
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- **Members:** Information is kept regarding all members of Fit-4Life. Though they also receive ID cards like employees - theirs are printed on different card stock that matches the level of membership they have with the fitness center. Also, employees and members ID cards will *NEVER* have the same identifying number sequence.

Records of current members are kept, regarding information such as:

- **Name, Address, Phone #, Gender, Birth Date, Locker #, Join Date (allows for anniversary marketing letters)**

### **Entity Types:**

- Employees
  - Fitness Instructors
    - Master Instructor
  - Administrative Personnel
    - Billing Clerks
    - Equipment Managers
  - Clerks
- Members
  - Bronze
  - Silver
  - Gold
  - Platinum
  - Employee (Red)
- Fitness Courses
  - Classes
  - Room
- Equipment
- Merchandise
- Sales