**Variant 2: Database "Fitness Center Management"**

**info**

**Level: Medium**

**Description**

Design a database for a fitness center that manages memberships, classes, and trainers.

* The fitness center offers different types of memberships (monthly, yearly, premium).
* Members can attend various fitness classes (yoga, spinning, strength training).
* Trainers are assigned to specific classes and can have multiple specializations.
* The center tracks attendance and manages equipment inventory.
* Members can book personal training sessions with trainers.
* The system tracks member progress and fitness goals.

**MVP Features**

* Basic membership management
* Class schedule management
* Trainer profiles and assignments
* Simple attendance tracking

**Final Version Features**

* Personal training session booking
* Equipment inventory management
* Member progress tracking
* Fitness goals management
* Advanced scheduling system
* Trainer specializations

**Technical overview**

**Minimal Set of Base Tables:**

MVP Tables:

* Members
* Memberships
* Trainers
* Classes
* Attendance

Final Version Tables:

* Equipment
* PersonalTraining
* Progress
* TrainerSpecializations

**Minimum Set of Table Fields:**

MVP Fields:

* Member ID
* Member name
* Membership type
* Membership start/end dates
* Trainer ID
* Trainer name
* Class name
* Class schedule
* Attendance date

Final Version Fields:

* Trainer specialization
* Equipment name
* Equipment status
* Personal training date
* Progress metrics
* Fitness goals
* Goal achievement date
* Trainer availability