# Entities:

1. Client:
   * Description: Represents a client in the fitness management system.
   * Attributes:
     + ClientID: Unique identifier for the client (Primary Key).
     + Name: Name of the client.
     + Age: Age of the client.
     + Phone: Phone number of the client.
     + Email: Email address of the client.
2. Member:
   * Description: Represents a member in the fitness management system.
   * Attributes:
     + MemberID: Unique identifier for the member (Primary Key, Foreign Key referencing Client(ClientID)).
     + RegistrationDate: Date of registration for the membership.
     + MembershipType: Type of membership.
     + SubscriptionDuration: Duration of the membership subscription.
3. Non-Member:
   * Description: Represents a non-member in the fitness management system.
   * Attributes:
     + NonMemberID: Unique identifier for the non-member (Primary Key, Foreign Key referencing Client(ClientID)).
     + RewardPoints: Points earned by the non-member.
4. Room:
   * Description: Represents a room in the fitness management system.
   * Attributes:
     + RoomID: Unique identifier for the room (Primary Key).
     + Number: Room number.
     + Capacity: Maximum capacity of the room.
5. Trainer:
   * Description: Represents a trainer in the fitness management system.
   * Attributes:
     + TrainerID: Unique identifier for the trainer (Primary Key).
     + Name: Name of the trainer.
     + Age: Age of the trainer.
     + Degree: Degree or qualification of the trainer.
6. FitnessClass:
   * Description: Represents a fitness class in the fitness management system.
   * Attributes:
     + ClassID: Unique identifier for the fitness class (Primary Key).
     + ClassTimes: Set of times in which the class is offered.
7. Dietitian:
   * Description: Represents a dietitian in the fitness management system.
   * Attributes:
     + DietitianID: Unique identifier for the dietitian (Primary Key).
     + Name: Name of the dietitian.
     + Age: Age of the dietitian.
     + Degree: Degree or qualification of the dietitian.

Relationships**:**

1. **Client-Member**:
   * Description: One-to-One relationship between Client and Member.
2. **Client-Non-Member**:
   * Description: One-to-One relationship between Client and Non-Member.
3. **Client-FitnessClass**:
   * Description: Many-to-Many relationship between Client and FitnessClass.
   * Junction Table: ClassClient
     + Attributes:
       - ClassClientID: Unique identifier for the junction table (Primary Key).
       - ClassID: Foreign Key referencing FitnessClass(ClassID).
       - ClientID: Foreign Key referencing Client(ClientID).
4. **FitnessClass-Room**:
   * Description: Many-to-One relationship between FitnessClass and Room.
   * FitnessClass holds RoomID (Foreign Key referencing Room(RoomID)).
5. **FitnessClass-Trainer**:
   * Description: Many-to-Many relationship between FitnessClass and Trainer.
   * Junction Table: ClassTrainer
     + Attributes:
       - ClassTrainerID: Unique identifier for the junction table (Primary Key).
       - ClassID: Foreign Key referencing FitnessClass(ClassID).
       - TrainerID: Foreign Key referencing Trainer(TrainerID).
6. **Member-Dietitian**:
   * Description: One-to-One relationship between Member and Dietitian.
   * Member holds DietitianID (Foreign Key referencing Dietitian(DietitianID)).
7. **Dietitian-Member**:
   * Description: One-to-Many relationship between Dietitian and Member.
   * Dietitian follows up with many members.