1. **Gymnasium** 
   * Attributes:
     + Name
     + Address
     + Telephone number
2. **Member**
   * Attributes:
     + Unique identifier
     + Last name
     + First name
     + Address
     + Date of birth
     + Gender
3. **Session**
   * Attributes:
     + Type of sport
     + Schedule
     + Maximum of 20 members
4. **Coach**
   * Attributes:
     + Last name
     + First name
     + Age
     + Specialty
5. **Relationships:**
   * A **gymnasium** has many **sessions**
   * A **member** registers at one **gymnasium**
   * A **session** can accommodate a maximum of 20 **members**
   * A **session** is led by a maximum of two **coaches**
   * A **coach** can lead multiple **sessions**

Here's a textual representation of the ER model:

1. **Entities:**
   * **Gymnasium** (GymnasiumID, Name, Address, TelephoneNumber)
   * **Member** (MemberID, LastName, FirstName, Address, DateOfBirth, Gender, GymnasiumID)
   * **Session** (SessionID, SportType, Schedule, GymnasiumID)
   * **Coach** (CoachID, LastName, FirstName, Age, Specialty)
2. **Relationships:**
   * **Gymnasium** 1--M **Session**
   * **Gymnasium** 1--M **Member**
   * **Session** M--N **Member**
   * **Session** M--2 **Coach**
   * **Coach** 1--M **Session**

+----------------+ +----------------+ +----------------+

| Gymnasium | | Member | | Session |

+----------------+ +----------------+ +----------------+

| GymnasiumID |<------------>| GymnasiumID | | SessionID |

| Name | | MemberID |<------------>| GymnasiumID |

| Address | | LastName | | SportType |

| TelephoneNumber| | FirstName | | Schedule |

+----------------+ | Address | +----------------+

| DateOfBirth |

| Gender |

+----------------+

|

|

|

|

v

+----------------+

| Coach |

+----------------+

| CoachID |

| LastName |

| FirstName |

| Age |

| Specialty |

+----------------+

Note that in the above diagram:

A Gymnasium has a one-to-many relationship with Members and Sessions.

A Session has a many-to-many relationship with the Member and a many-to-two relationship with the Coach.

A Coach has a one-to-many relationship with Session.