

Entity model

These are the entities that have been identified.

Gymnasium: This entity represents the gymnasiums that are owned by the gym chain. Each gymnasium is identified by a unique identifier that has a name, an address, and a phone number.

Member: This entity represents the members who register at one of the gymnasiums. Each member is identified by a unique identifier and has a last name, first name, address, D.O.B, and gender. A member can register for multiple sessions.

Session: This entity represents the sessions offered by the gym chain. Each session is characterized by a type of sport and a schedule, and can accommodate a maximum of 20 members.

Coach: This entity represents the coaches who lead the sessions. Each coach has a last name, first name, age, and specialty.

The relationships noted are as follows

A session may be offered by more than one gym, and only one gym may offer it at a time. The relationship between the gym and the session's "offers" stands in for this.

A member may sign up for several sessions, and a session may have more than one person sign up for it. The link between member and session that states "registers for" exemplifies this.

Two coaches at most can lead a session, and one coach can take charge of many sessions. The relationship between session and coach that is described as "leads" illustrates this.

With the help of this entity relationship model, the gym chain may enhance the registration and session management procedures and gain a better understanding of the relationships between the entities participating in their operations.

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Gymnasium	Member	Session
+-----+	+-----+	+-----+
gym_id	member_id	session_id
name	last_name	sport_type
address	first_name	schedule
telephone	address	max_capacity
+-----+	date_of_birth	gym_id
	gender	+-----+
	+-----+	
	+-----+	
	Coach	
	+-----+	
	coach_id	
	last_name	
	first_name	
	age	
	specialty	
	+-----+	

Relationships:

- A Gymnasium has many Members (one-to-many)
- A Member can register at one Gymnasium (one-to-one)
- A Session takes place at one Gymnasium (one-to-one)
- A Session can have many Members (many-to-many)
- A Session is led by one or two Coaches (one-to-many)