# Resources and Relationships

## **Facilities**

Facilities represent the physical locations where sessions are held, like tennis courts or pools.

## Relationships:

- Facilities to Slots: One-to-Many. Each facility has multiple slots.
- Facilities to Sessions: One-to-Many. Each facility can host multiple sessions.

#### Slots

Time intervals available for booking at each facility.

## · Relationships:

 Slots to Sessions: One-to-One or One-to-Many. Each slot can accommodate one or multiple sessions, depending on the setup.

#### Sessions

The classes, lessons, or appointments available for booking.

#### Relationships:

- Sessions to Bookings: One-to-Many. Each session can be booked multiple times by different members.
- Sessions to Members (via Bookings): Many-to-Many. Members can book multiple sessions, and sessions can have multiple members booked.

#### Members

Individuals who use the system to make bookings.

#### · Relationships:

• Members to Bookings: One-to-Many. Each member can make multiple bookings.

## **Bookings**

Records of members reserving specific sessions.

## · Relationships:

- Bookings to Members: Many-to-One. Multiple bookings can be associated with a single member.
- Bookings to Sessions: Many-to-One. Multiple bookings can be made for the same session, assuming it supports multiple participants.

# Summary

• Facilities have multiple Slots and host multiple Sessions.

- **Slots** are designated times at **Facilities** and can be linked to one or more **Sessions**.
- Sessions occur during Slots at Facilities and can have multiple Bookings by Members.
- Members can make multiple Bookings for different Sessions.
- Bookings connect Members to Sessions and, indirectly, to Slots and Facilities.