



Relational Database Schema



Decomposition to 3NF:

Member:

- member_id (PK)
- first_name
- last_name
- email
- phone
- date_of_birth
- emergency_contact

UserCredentials:

- credential_id (PK)
- member_id (FK → Member)
- username
- password_hash
- last_login

HealthHistory:

- history_id (PK)
- member_id (FK → Member)
- record_date
- weight
- height
- blood_pressure

Billing:

- billing_id (PK)
- member_id (FK → Member)
- billing_date
- due_date
- amount
- description
- status

Room:

- room_id (PK)
- room_name
- capacity

RoomFacility:

- room_id (FK → Room)
- facility_id (FK → Facility)

Facility:

- facility_id (PK)
- facility_name

Trainer:

- trainer_id (PK)
- first_name
- last_name
- email
- phone
- specialization

Availability:

- availability_id (PK)
- trainer_id (FK → Trainer)
- start_time
- end_time

GroupClass:

- class_id (PK)
- class_name
- description
- max_capacity
- price
- duration

Session:

- session_id (PK)
- trainer_id (FK → Trainer)
- room_id (FK → Room)
- class_id (FK → GroupClass)
- schedule_time
- status

Booking:

- booking_id (PK)
- member_id (FK → Member)
- session_id (FK → Session.session_id)
- status