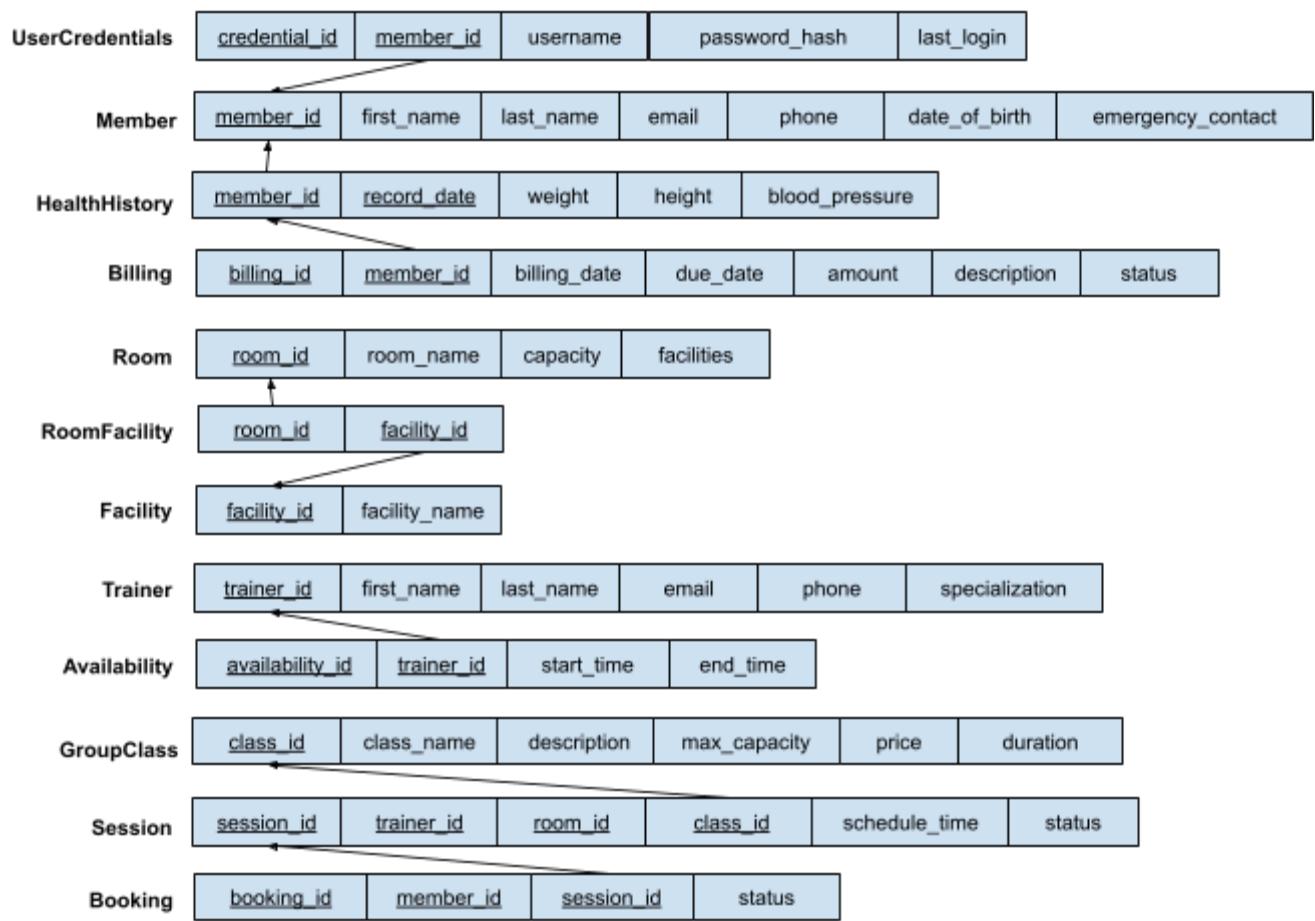


## Relational Database Schema



### **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