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COMP3005 Final Project ER Model

Entities And Attributes:

1. Member:

- a. memberID (primary key)
- b. memberName
- c. memberEmail (unique)
- d. memberPhone (unique)

Relationships:

- One member to many HealthMetric's
- One member to many PTSession's

2. Trainer:

- a. trainerID (primary key)
- b. trainerName
- c. trainerEmail (unique)
- d. trainerPhone (unique)

Relationships:

- One trainer to many Availability's
- One trainer to many PTSession's

3. Admin:

- a. adminID (primary key)
- b. adminName
- c. adminEmail (unique)
- d. adminPhone (unique)

Relationships:

- There are no direct relationships, admins are strictly enable privileged functionality in app

4. HealthMetric:

- a. metricID (primary key)
- b. memberID (foreign key for member)
- c. metricTimeStamp
- d. weight
- e. heartRate

Relationships:

- Many health metrics to one Member

5. Availability:

- a. availabilityID (primary key)
- b. trainerID (foreign key for trainer)
- c. startTime
- d. endTime

Relationships:

- Many availability's belong to one Trainer

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6. Room:

- a. roomID (primary key)
- b. roomName (unique)
- c. roomCapacity

Relationships:

- One to many Equipment's
- One to many PTSession's

7. Equipment

- a. equipmentID (primary key)
- b. roomID (foreign key for Room)
- c. equipmentName
- d. status

Relationships:

- One to many MaintenanceRecord's

8. MaintenanceRecord:

- a. recordID (primary key)
- b. equipmentID (foreign key for Equipment)
- c. issueDescription
- d. loggedAt
- e. status

Relationships:

- Many records to one Equipment

9. PTSession:

- a. sessionID (primary key)
- b. memberID (foreign key for Member)
- c. trainerID (foreign key for Trainer)
- d. roomID (foreign key for Room)
- e. sessionTime

Relationships:

- Each PTSession involves one Member, one Trainer, and one Room