

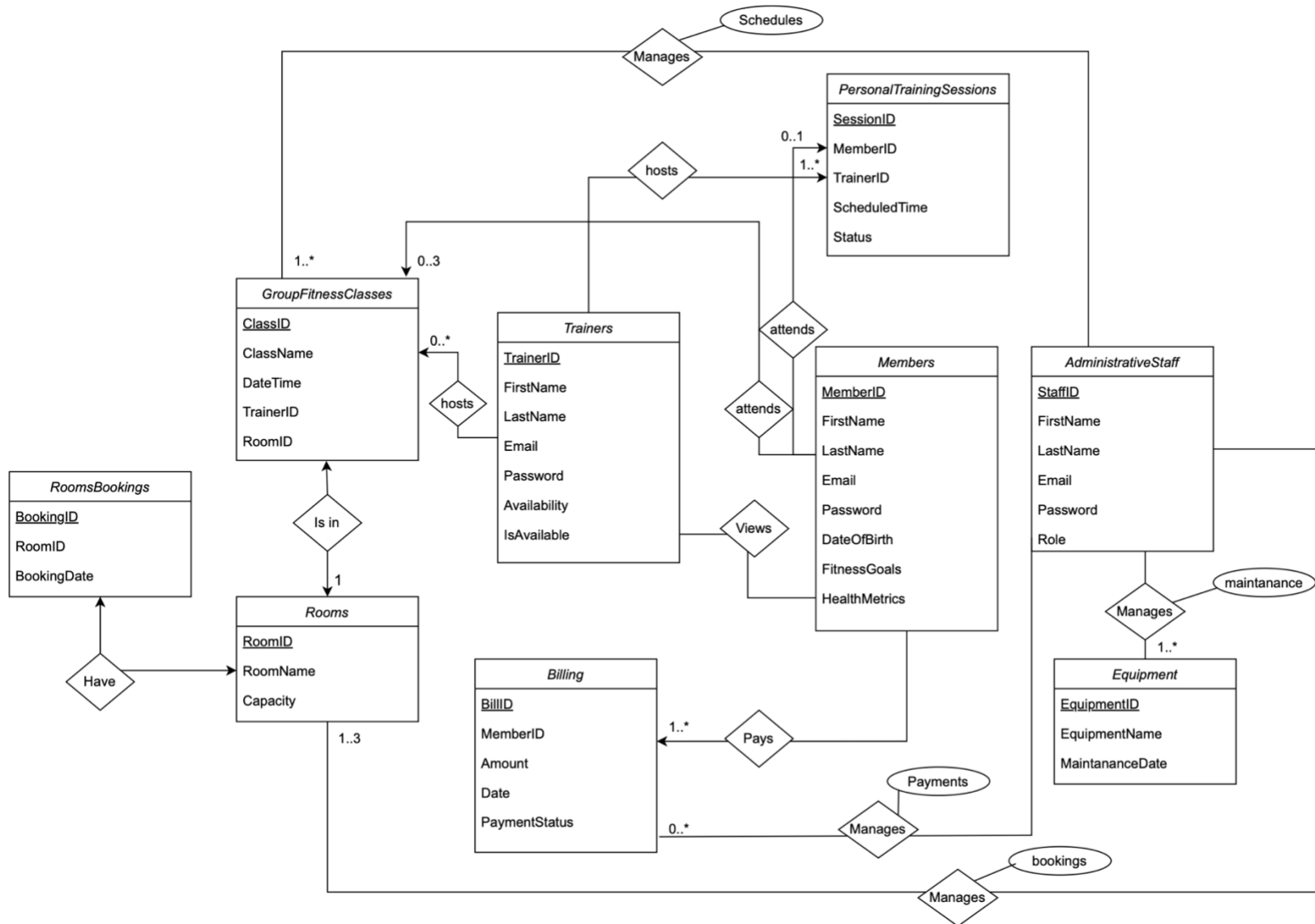
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COMP 3005 – Final Project V2 - SOLO

### Design Explanation

Members, trainers, and staff are distinct entities with tailored attributes to capture their unique interactions with the system. Members can register for multiple personal training sessions and group fitness classes, represented by zero-to-many relationships. Similarly, trainers can conduct numerous sessions and classes, indicated by zero-to-many relationships, allowing for varied schedules. The use of a junction table for MemberGroupClasses establishes many-to-many relationships between members and group classes, which allows tracking of class registrations.

Room assignments for classes are managed through a one-to-many relationship from rooms to classes, ensuring each class is allocated to a single room while rooms can host multiple classes. Equipment does not directly connect to other entities but can be integrated for maintenance tracking. The Billing entity directly links to members with a one-to-many relationship, which allows multiple billing records per member.

# ER DIAGRAM



## SCHEMA DIAGRAM

