# HEALTH AND FITNESS CLUB MANAGEMENT SYSTEM ASSUPMTIONS

**members**: This table represents the members of the club.  it is referenced by the bookings, assigns, takes, and billing tables.

**employees**: This table represents the employees of the club.  it is referenced by the trainers and admins tables.

**trainers**: This table represents the trainers at the club.  it is referenced by the classes and assigns tables.

**admins**: This table represents the administrators at the club. It references the employees table through the emp_id foreign key, and it is referenced by the admin_manages table.

**rooms**: This table represents the rooms that can be booked at the club.  it is referenced by the bookings and admin_manages tables.

**bookings**: This table represents the bookings made by members. It references the members and rooms tables through the mesmeric and room_id foreign keys, respectively, and it is referenced by the admin_manages table.

**equipment**: This table represents the equipment at the club.  it is referenced by the admin_manages table.

**classes**: This table represents the classes that members can take. It references the trainers table through the trainers_id foreign key, and it is referenced by the takes table.

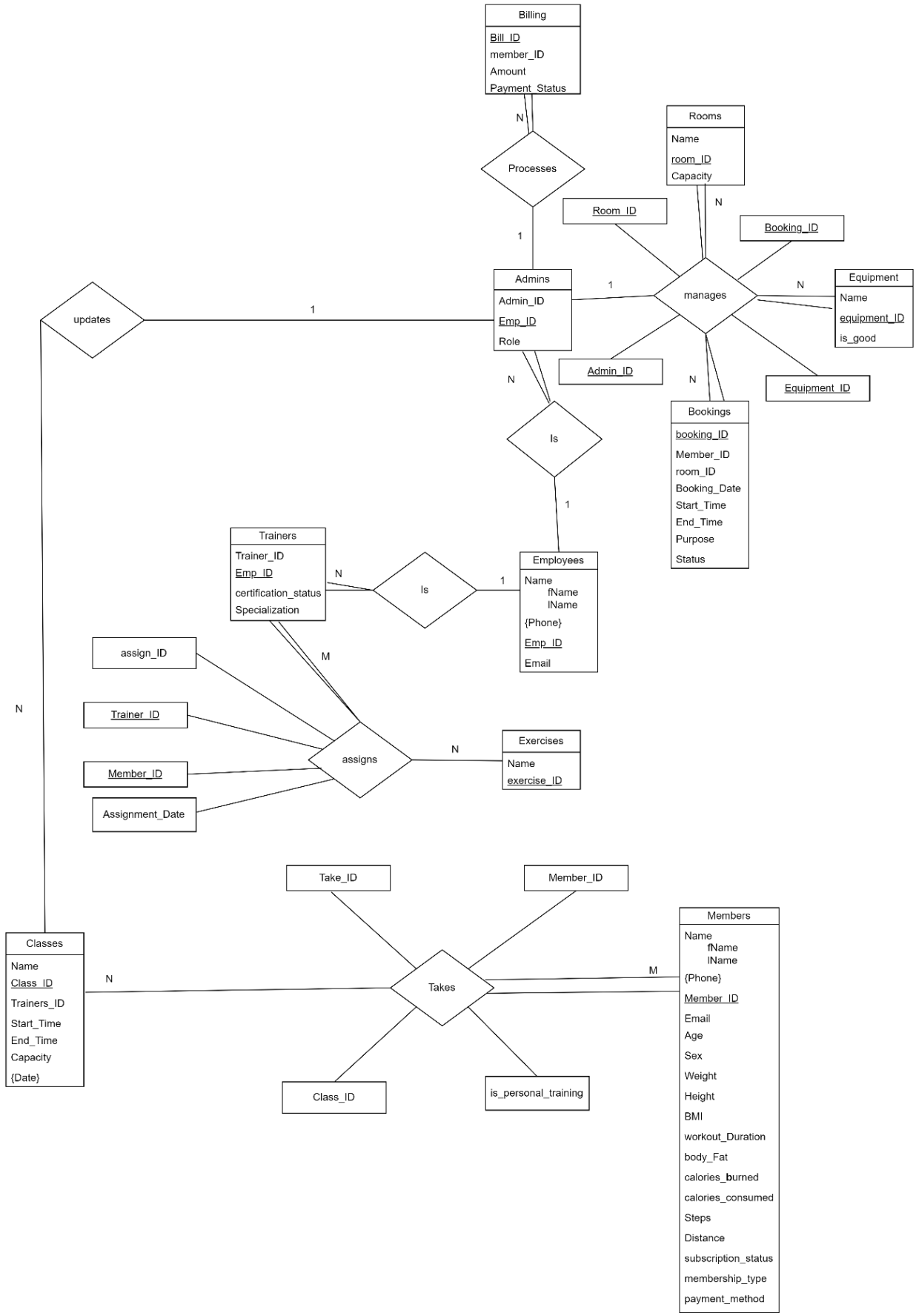
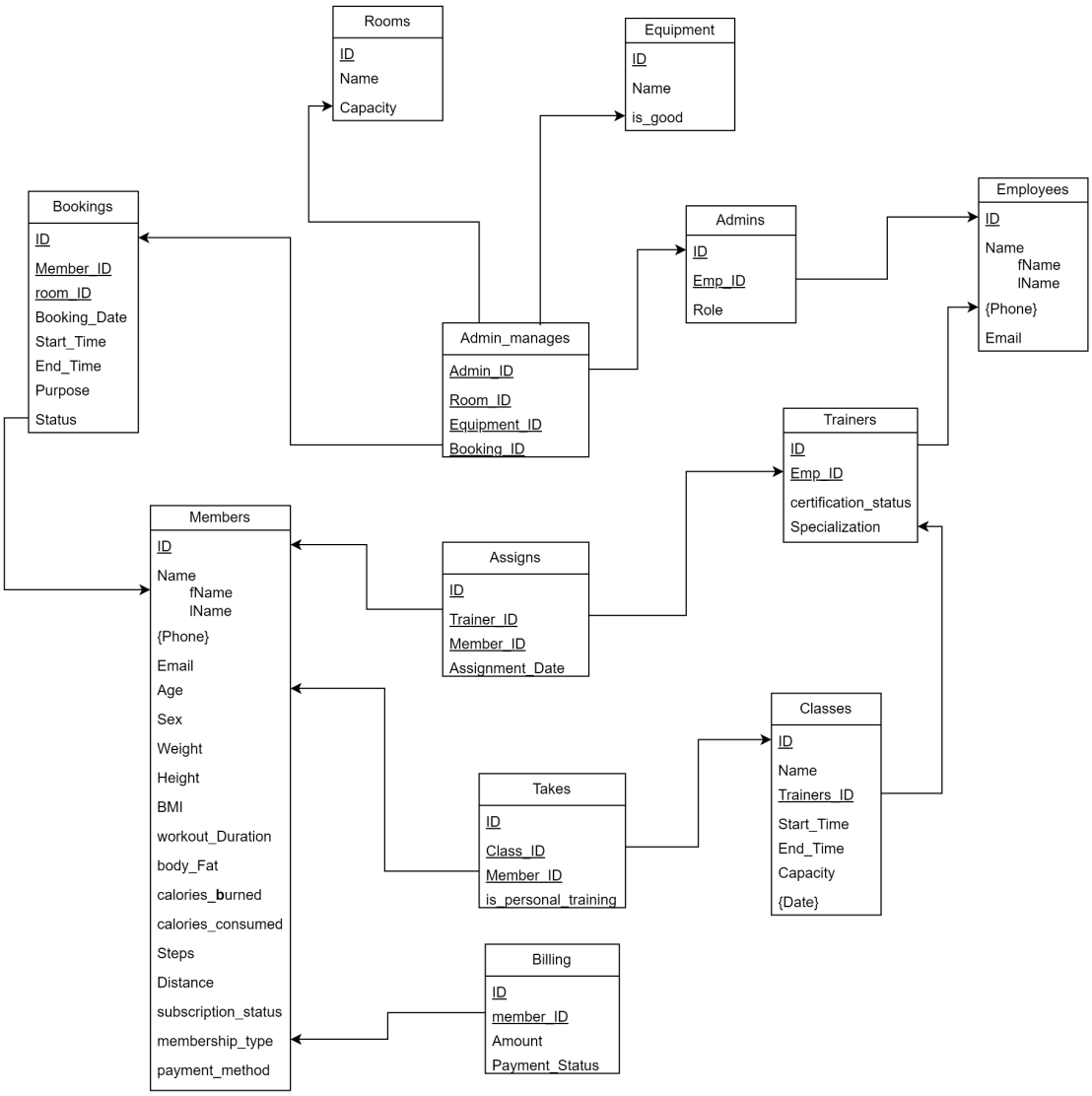
**assigns**: This table represents the assignments of exercises to members by trainers. It references the trainers and members tables through the trainer_id and member_id foreign keys, respectively.

**takes**: This table represents the classes that members take. It references the members and classes tables through the member_id and class_id foreign keys, respectively.

**billing**: This table represents the billing and payment processing for members. It references the members table through the member_id foreign key.

**exercises**: This table represents the exercises that members can do. It doesn't directly reference any other tables, and it isn't referenced by any of the provided tables.

# ER MODEL OF THE HEALTH AND FITNESS CLUB



# REDUCTION TO RELATION SCHEMA OF HEALTH AND FITNESS CLUB