Requirements:

Each Members has a unique membership id, a name, number, Fitness Goal and health metric. Each member has a Personal Trainer and access to a personalized dashboard. They may schedule, reschedule, and cancel a personal training session. The dashboard tracks the member’s exercise routine, fitness achievement, and health statistics.

Furthermore, members can register for group fitness classes, workshops, and other events. Each event has its own unique event id. Each trainer has a unique trainer id, access to their schedules. Trainers may also view member profiles and input progress notes after a training session. The system also has administrative staff. The staff has a unique staff id, they manage room bookings using unique booking ids, equipment maintenance, updating class schedules and billing. Each room has an id, and a list of booking ids. The equipment’s have a unique id and maintenance status. Billing has a unique payment id, member id and status.

There exists a loyalty program for each member, it has points that can be used later.

ER:

A diagram of a company

Description automatically generated

Database schema:

A diagram of a company

Description automatically generated with medium confidence