Normalization
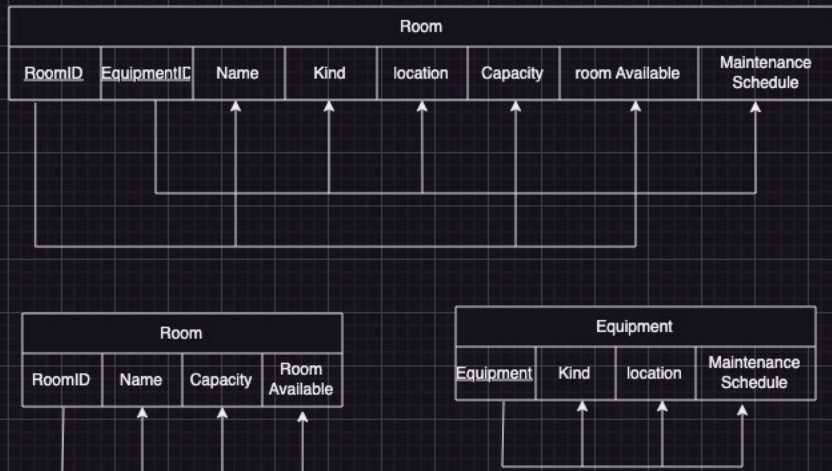
all the tables are in 2NF and 3NF except the room table is only in 3NF

to make in 2NF we have to break it into two tables

Room							
RoomID	EquipmentID	Name	Kind	location	Capacity	room Available	Maintenance Schedule

Room			
RoomID	Name	Capacity	Room Available

Equipment			
Equipment	Kind	location	Maintenance Schedule

Dependancy

member:

memberID --> { Name, Email, Date of Birth, Fitness Goals, Weight, Loyalty }

Trainer:

trainerID --> { Name, Email }

Loyalty Program:

memberID --> { Total Points, Points per Transaction, Redeemed }

Billing and Payment:

TransactionID --> { MemberID, Amount, Date, Payment Method, Service }

Fitness Class:

ClassID --> { Name, Description, Capacity, Location }

Room:

RoomID --> { Name, Capacity, Room Available }

EquipmentID --> { Kind, Location, Maintenance Schedule }

Administrative Staff:

StaffID --> { Name, Email, Role, Work Schedule }

Personal Training Session:

SessionID --> { Duration, Day, Time, MemberID, TrainerID }