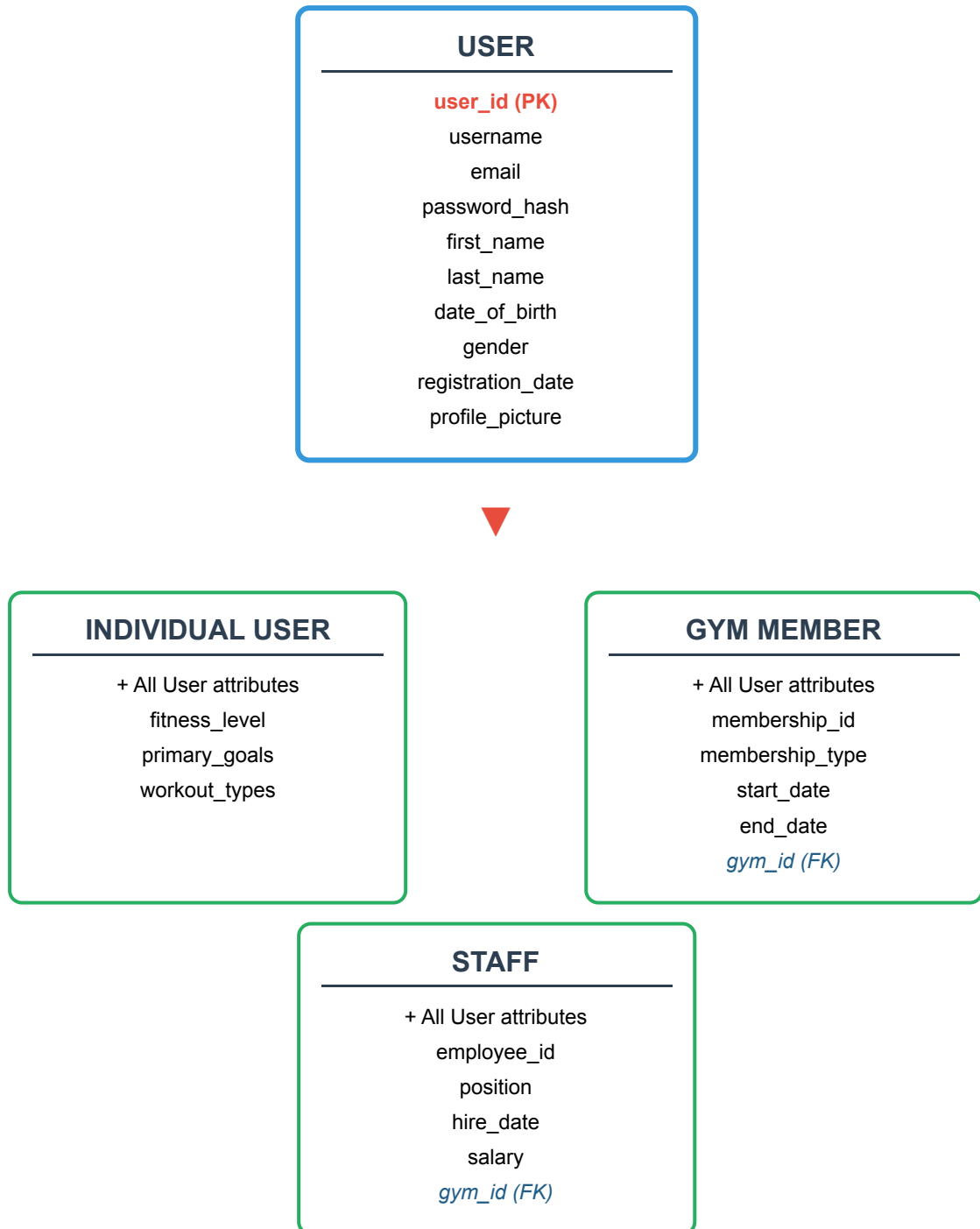


FitTrack Pro - Entity Relationship Diagram

User Inheritance



Staff Specialization

STAFF

+ All User attributes
employee_id
position
hire_date
salary
gym_id (FK)



TRAINER

+ All Staff attributes
certification
specialization
hourly_rate

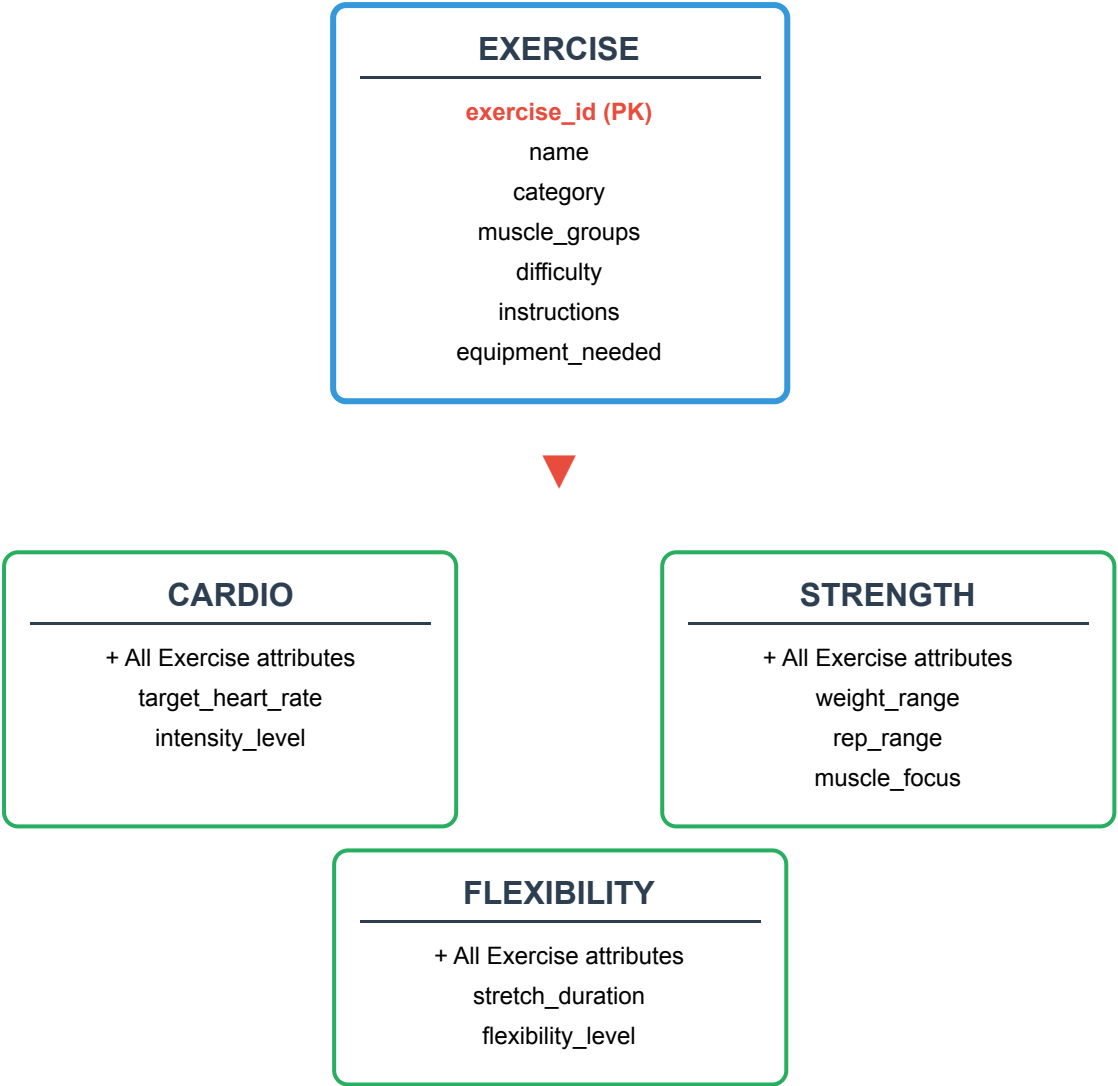
MANAGER

+ All Staff attributes
department
access_level
bonus_eligible

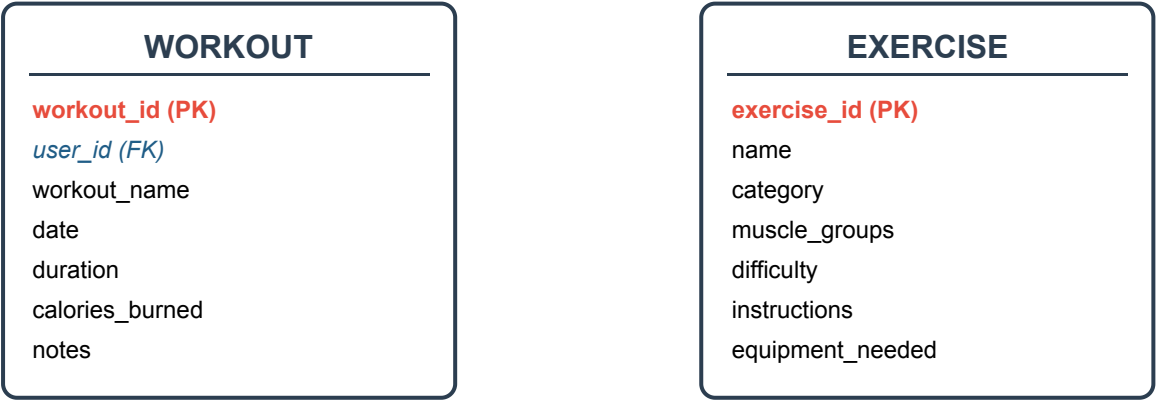
RECEPTIONIST

+ All Staff attributes
shift_schedule
languages_spoken

Exercise Categories



Core Entities and Relationships



↕ Many-to-Many (M:N) ↕

WORKOUT_EXERCISE

workout_id (FK)
exercise_id (FK)
sets
reps
weight
duration
rest_time

EQUIPMENT

equipment_id (PK)
gym_id (FK)
name
type
status
purchase_date
maintenance_schedule

GYM

gym_id (PK)
name
address
phone
email
operating_hours
facilities

CLASS

class_id (PK)
gym_id (FK)
trainer_id (FK)
name
description
schedule_time
duration
max_capacity

↕ Many-to-Many (M:N) ↕

CLASS_BOOKING

booking_id (PK)
class_id (FK)
member_id (FK)
booking_date
status

PROGRESS_TRACKING

tracking_id (PK)
user_id (FK)
date
weight
body_fat_percentage
muscle_mass
measurements

Legend & ISA Summary

Red = Primary Key (PK) | *Blue = Foreign Key (FK)* | **Blue Border = Superclass** | **Green Border = Subclass**

✅ **3 ISA Hierarchies (Required for 3-Person Team):**

1. User → Individual User, Gym Member, Staff
2. Staff → Trainer, Manager, Receptionist
3. Exercise → Cardio, Strength, Flexibility