

Student Name: **Patrick Manacorda**

Project Proposal: **Weather Fit - Bodybuilding and Powerlifting Gym**



- **Required Elements:**

Facility: Instance of a gym

Region: Specifies the location of a facility

Employee: Workers at the gym

Customer: People that sign up for the gym

Membership: Specifies what service the costumer signed up for

- **Business Rules**

Each facility has a name and a region where it's located. Each Region may have multiple Facilities but each facility has one and only one region.

Each facility has multiple employees, each employee has a one role(trainer, cleaning, front-desk) and it may be employed at multiple different facilities with different roles.

Each employee may have 1 and only 1 role within one facility. It is not allowed for the same employee to be employed with multiple roles within the same facility. (Note that this is an intentional design, if I wanted to allow multiple roles for each employee I would have had to add another GYM\_STAFF\_ROLE table and set the primary key of the GYM\_STAFF table to be a combination of 3 foreign keys instead of 2).

Each customer at the gym must have a membership, each customer may have 1 or more memberships(One for Open-Gym, One for Classes, One for Tanning etc). Each membership has multiple customers signed up for it.

Each membership is valid for any facility in the restricted region in which the costumer registered the membership.

- **Where is the M:M relation?**

Employee & Facility: each facility has multiple employees and an employee may be employed at different facilities.

Customer & Membership: a customer may have multiple membership that he signed up for and each membership has multiple customers signed up for it.

- Visual Representation

## Employee Payroll Report

EMPLOYEE NAME	ROLE	FACILITY	HOURLY PAY
Arnold Swcharzanneger	Trainer	Go Mad Fitness	22.5 \$
Arnold Swcharzannege	Trainer	Mayweather Fit	22.5 \$
Deirdre Mccready	Cleaning	Go Mad Fitness	20.75 \$
Deirdre Mccready	Front Desk	Mayweather Fit	20.75 \$
Kai Greene	Trainer	Mayweather Fit	27.95 \$
Sabrina Rowe	Misc Help	Mayweather Fit	22.75 \$

## Membership Type Report

MEMBERSHIP NAME	PRICE
OPEN-GYM	45\$
CLASSES	60\$

Average membership price: 52.5\$

## Membership Customer Report

CUSTOMER NAME	MEMBERSHIP	REGION
Mike Koenig	open-gym	Seattle
Mike Koenig	classes	Seattle
Mike Koenig	classes	Milan
Patrick Manacorda	open-gym	Milan
Zach Zeiler	Trainer	Milan
Zach Zeiler	classes	Milan

Number of unique customers: 3