

IST359 PROJECT TEMPLATE

Project Name: Syracuse Women's Rowing (SUWROW) Team Database

Author: Lauren Coop

IDEA

Explain what your database idea is about. You should try to cover what it is, what it does, etc.

My idea is to create a database that holds all the information relating to the women's rowing team. This will allow the coaches to keep track of everything relating to their athletes and practices in an organized and easily accessible way. The Syracuse women's rowing team has a lot of data from athlete's personal info to their injuries, practice times, what athletic trainer each athlete is seeing and what workouts the team does (among a lot of other things). All of this data is kept track of by hand (or by memory) by our coaches or by other Syracuse University Office. A database would help in making the tracking of this data uniform, organized and accessible. For the database I am making I will keep track of athletes, coaches, athletic trainers and team therapists' personal info. I will also keep track of athletes injuries, team equipment, equipment repairs, practices and all of the different workouts the team has ever done. There are other elements that the team tracks that I could use in the database but for this project I am keeping it to just these things.

Why do you want to keep track of this data?

I want to keep track of this data because all of this information is important to ensuring that our team runs smoothly. However, I think that our team has a lot of issues with efficiency due to the reliance on memory to utilize the data we have and the fact that the data itself is tracked by people and not in a uniform way. Most of the data that I want to represent in this data bases the coaches keep track of by hand and is located in a lot of different documents on their computers. Using a database would save so much time and effort for the coaches and ensure that no data is lost. For example, athletes are often injured and either cannot come to practice or have to do modified workouts. In the case that an athlete is injured the coaches just use their memory when an athlete does not show up to practice or the athlete themselves has to continuously remind them that they are injured. I think a database for the team would be extremely useful because it would eliminate reliance on memory and the coaches could record and track this important info.

BUSINESS RULES – 10 PTS + 10 PTS FOR COMPLEXITY

ENTITIES

In this section, include a bulleted list of conceptual entities for your database idea. Please describe each entity briefly. Example:

- **Athlete** - Member of the SUWROW team
- **Coach** - someone who coaches athletes on the SUWROW team
- **Athletic trainer** - someone who treats SUWROW athletes injuries
- **Therapist** - someone who treats athletes on the WROW team's mental health or sports performance issues.
- **Equipment** - piece of equipment (bike, rowing machine, etc...) that the SUWROW team owns

- **Repair** - fix done on damaged or broken equipment by a coach
- **Injuries** - injuries or illnesses that the SUWROW athletes endure
- **Practice** - an event that the SUWROW holds to train it's athletes
- **Workout** - workout that is completed by the SUWROW team

ATTRIBUTES

In this section, include a complete list of attributes for each entity. Be sure to indicate the attribute types. Example:

- **Athlete** - first name [R], last name [R], phone number [R, U], email address [R, U], address [R, M], enrollment date[R], expected graduation date [R], position [R], side
- **Coach** - first name [R], last name [R], position [R], address [R, M], hire date [R]
- **Athletic Trainer** - first name [R], last name [R], phone number [R, U], email address [R, U]
- **Injury** - date reported [R], type [R], location [R], description [R], date resolved
- **Therapist** - first name [R], last name [R], phone number [R], email address [R, U]
- **Equipment** - ID [R, U], type [R], date purchased [R], location [R],
- **Repair** - date broken [R], date fixed, description [R]
- **Practice** - date [R], location [R], duration [R]
- **Workout** - title [R], type [R], duration [R], description [R]

RELATIONSHIPS

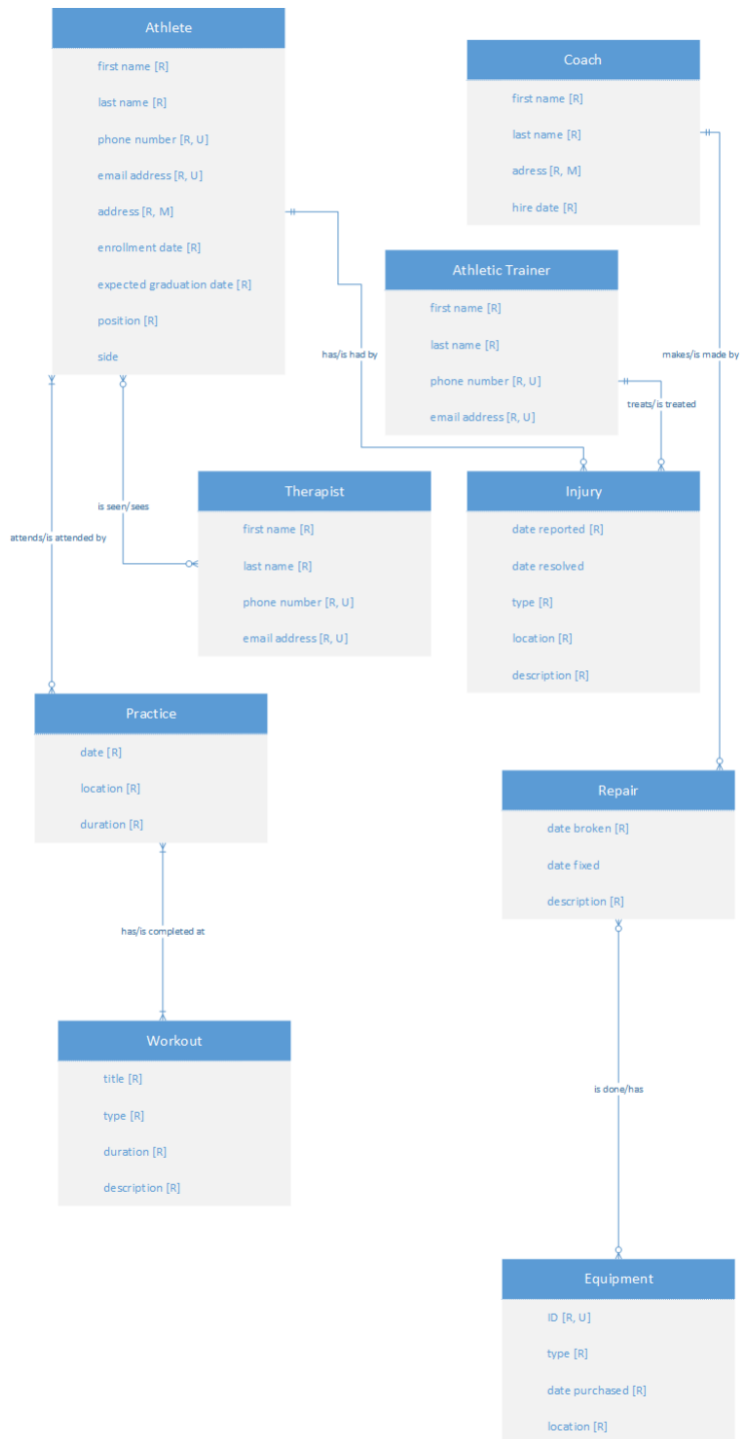
In this section list the relationships among the entities as required of the conceptual model.

Example:

- A **Therapist** treats 0 or more athletes; An **Athlete** is treated by 0 or more **Therapists**
- An **Athlete** has 0 or more **Injuries**, An **Injury** is had by 1 and only 1 **Athlete**.
- An **Athletic Trainer** treats 0 or more **Injuries**, an **Injury** is treated by 1 and only 1 **Athletic Trainer**.
- A **Coach** completes 0 or more **Repairs**, A **Repair** is completed by 1 and only 1 **Coach**.
- A piece of **Equipment** receives 0 or more **Repairs**, A **Repair** is done on 0 or more pieces of **Equipment**.
- A **Practice** is attended by 1 or more Athletes, An **Athlete** attends 0 or more **Practices**.
- A **Workout** is done at 1 or more **Practices**; A **Practice** has 1 or more **Workouts**.

CONCEPTUAL MODEL / ERD DIAGRAM 15 PTS

Paste your Visio diagram below. The best way to get a good diagram is use file -> save as -> browse -> portable network graphics format in Visio. Then insert the file you saved here. If it's blurry and hard to read, expect a deduction.



LOGICAL MODEL

Paste your Vertabelo diagram below

