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Project Part 1: Explanations

Legend

Entities: First letter is capitalized

Relationship: First letter is capitalized and word is italicized

Attributes: Usually stated as common words without spaces

Person

This entity will handle any actions (have any relationships) that both the student and advisor entities have the ability to do. Therefore, there will not be a relationship with Student and something else, and another (redundant) relationship from the Advisor’s perspective. For example, all “people” (meaning both Student and Advisor) have the ability to *Comment* to both the Event entity and Club’s weak entity set, Match.

Student

This entity can join a club. However, a student must both show an interest to a club and match any club description/comments. This inspired the weak entity set Match, which has both of these attributes, student\_interest and people\_keywords (about the club). If a student *Matches*, s/he will *Belong* to a Club.

Advisor

This entity merely *Has* Club(s).

Club

This entity merely Sponsors Events. This entity is required to determine whether or not a Student is *Eligible* to *Enter* an Event. This is handled with a weak entity named Eligibility. A Club *Has* at least one Advisor.

Event

If Event’s permission attribute is private, Students will only be able to *Enter* if they are part of the club that *Sponsored* the Event. This check is done through the weak entity set, Eligibility which is aggregated to the Student, Match, and Club entities, and *Belongs* relationship. If Event’s permission attribute is public, then all Students will be *Eligible* to *Enter* Event.

Match

A Person *Comments* to Match *For* the Club entity. Student’s ability to *Belong* to a Club depends on this entity. All student\_comments and people\_keywords are stored for each individual. Note: if the same Student inputs his/her “people\_keyword,” s/he may have a post-Match situation via the Person entity, which is fine since his/her input is coming after the fact that s/he *Belongs* to the club.

Event\_Comments

This is a weak entity set. All Persons are welcomed to *Comment* *For* an Event, which will be recorded for the individual Person.

Eligibility

This is a weak entity set. This entity is aggregated to Student, Match, and Club as it sometimes requires the state of being of whether a student *Belongs* to a Club. *Belongs* is already associate with two entities, so it would be clearer is Eligibility is aggregated.