Business Intelligence - Assignment 1
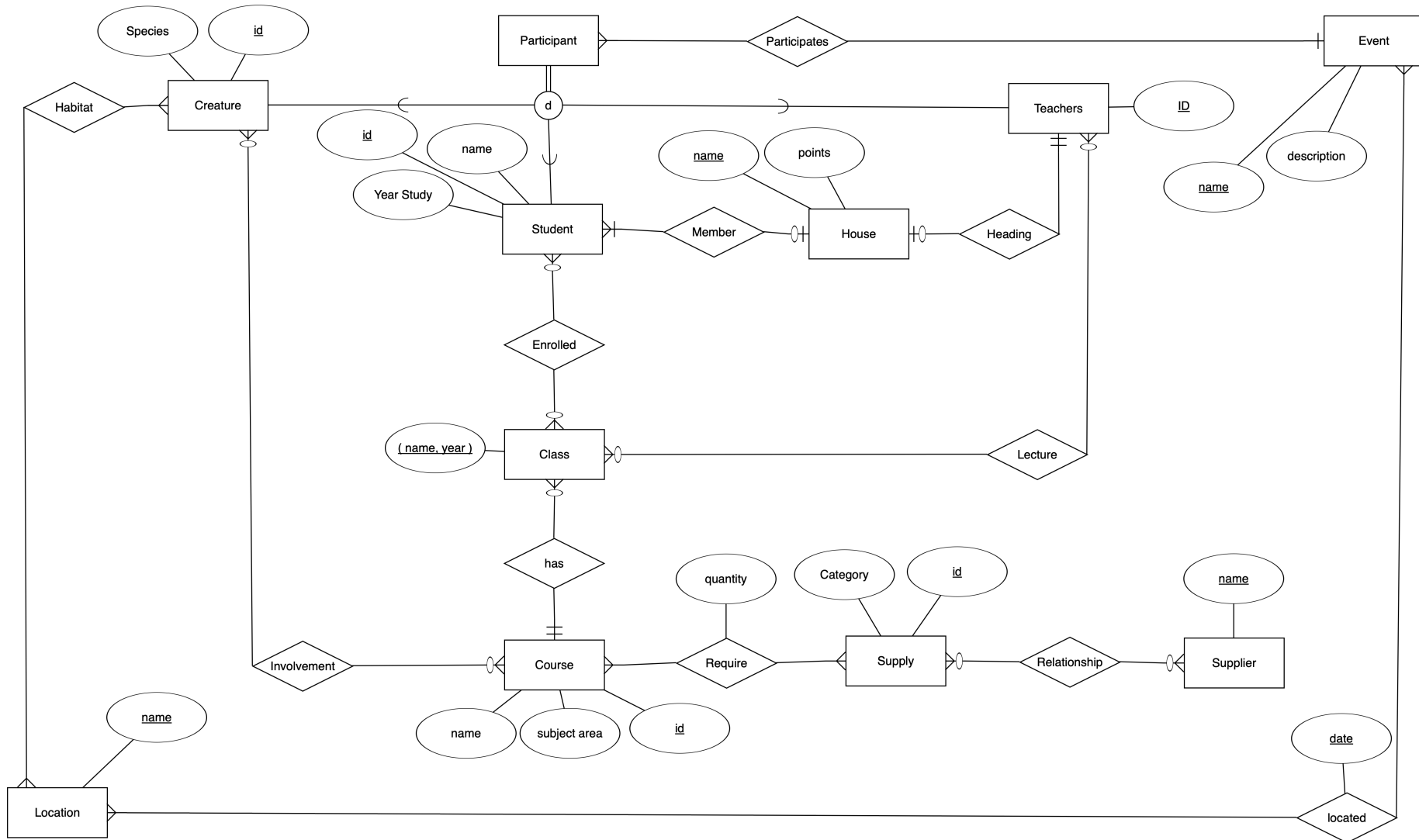Elvi Sabau
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ER MODEL

COMMENTS

Here follow some necessary explanation of assumptions we have made to deploy the above ER model:

1. We created a new attribute to the Teacher entity so that it could serve as **primary key.** We choose the attribute to be the **ID** of the teacher, thus allowing for teachers with the same name.
2. We defined a disjointed superclass named "Participants". Participant includes the entities Creature, Teacher and Student. We choose this approach so that we do not have to define three separate relationships of both three entities to the Event entity.
3. We placed the **key** attribute "date" on the relationship between Event and Location. This is due to the fact that we would like to ensure that each occurrence of an event at a specific location is unique to a particular date: we can now model multiple events at the same Location but in different dates (e.g. yearly events). This setup should also help with complex temporal queries (such as Historical Records). Also, we model Location as an entity (instead of an attribute of Event) to avoid redundancy: Location can in fact be used also for defining the Creature habitat's.
4. Given the fact that some supply do not have an actual supplier, and some may have different ones, instead of creating a supply and suppliers superclass, we defined a simple relationship bounded by (0,N). In this way, we can model any dynamic between suppliers and supplies.
5. We model the possibility for a creature to be found in more than one location/habitat.