

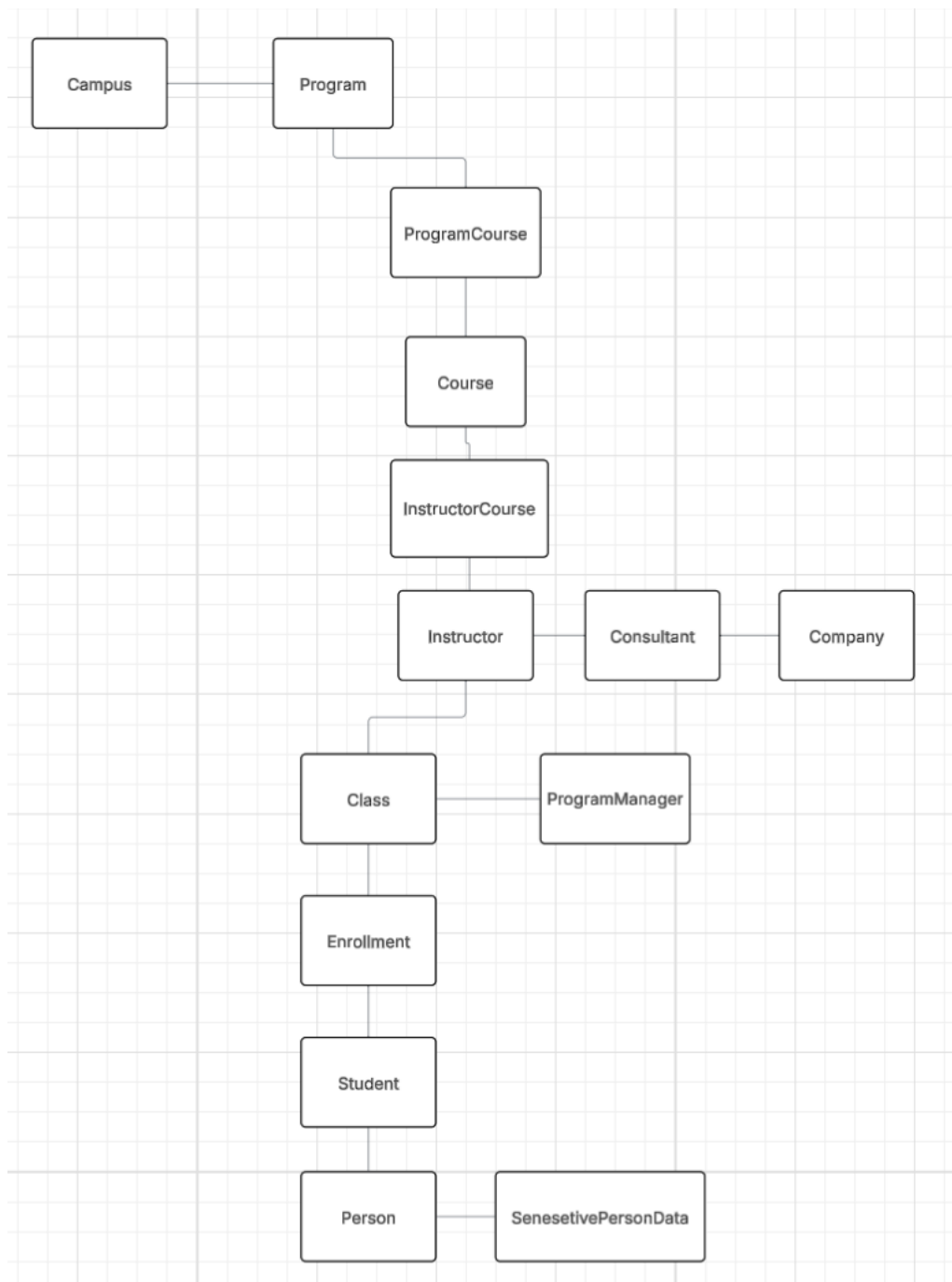
Laboration – Yrkesco

Conceptual model

Entites:

- Person
- Student
- Instructor
- ProgramManager
- SensetivePersonData
- Program
- Class
- Enrollment
- ProgramCourse
- Consultant
- Company
- Campus

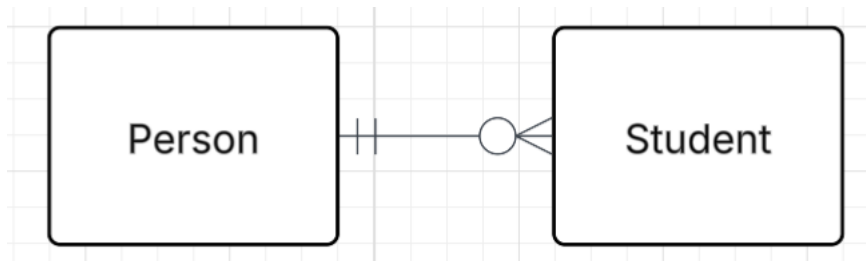
Overview of the conceptual model



Rules

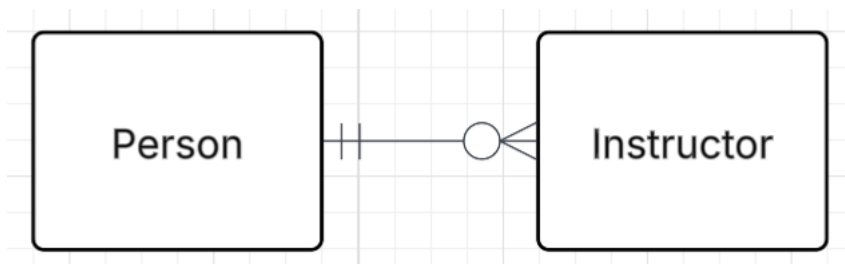
Person structure:

Person – Student:



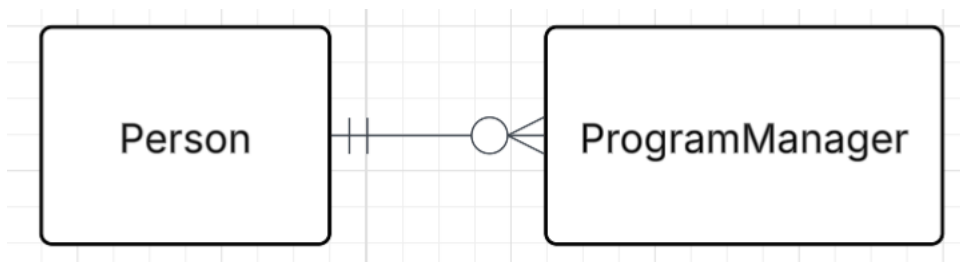
A Person may or may not be a student. A person must be exactly one person.

Person – Instructor:



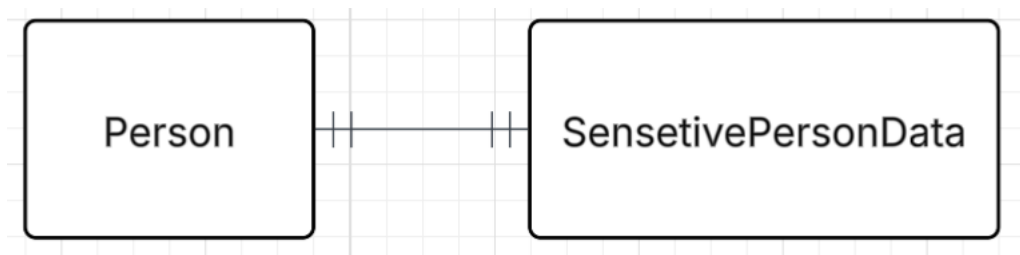
A person may or may not be an instructor. An instructor must be exactly one person.

Person – ProgramManager:



A person may or may not be a program manager. A program manager must be exactly one person.

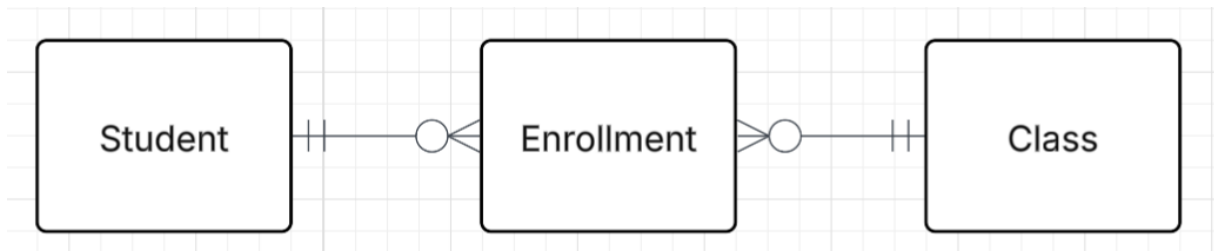
Person – SensitivePersonData:



Every person has exactly one set of sensitive personal data, and it belongs to exactly one person.

Student, Classes & Enrollment

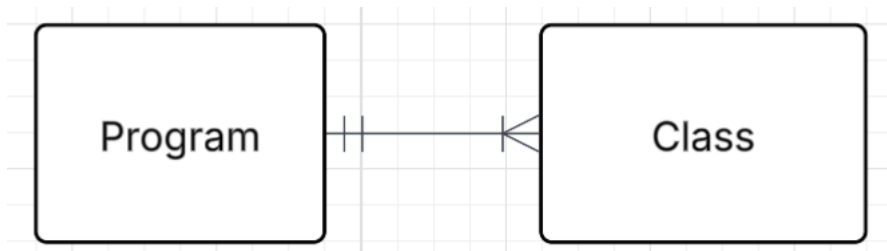
Student – Enrollment – Class:



A student can have zero or many enrolments. A class can have zero or many enrollments. An enrollment must belong to exactly one student. An enrollment must belong to exactly one class.

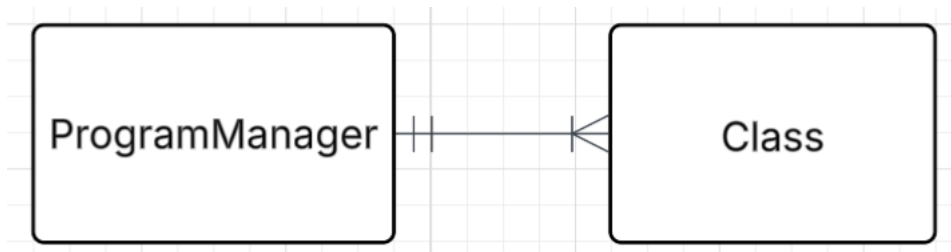
Program & Classes

Program – Class:



A program has one or many classes. A class belongs to exactly one program.

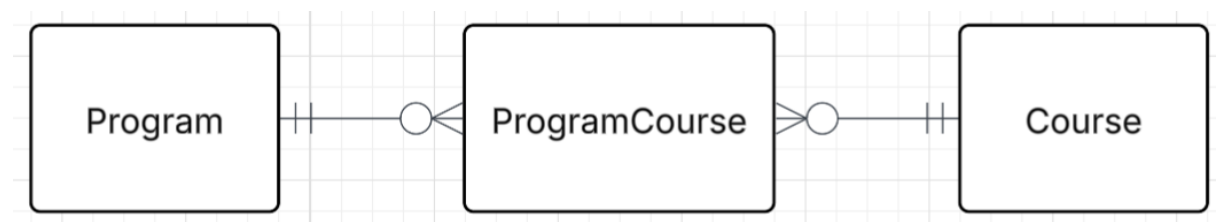
ProgramManager – Class:



A program manager manages exactly one or many classes. A class has exactly one program manager.

Program & Courses

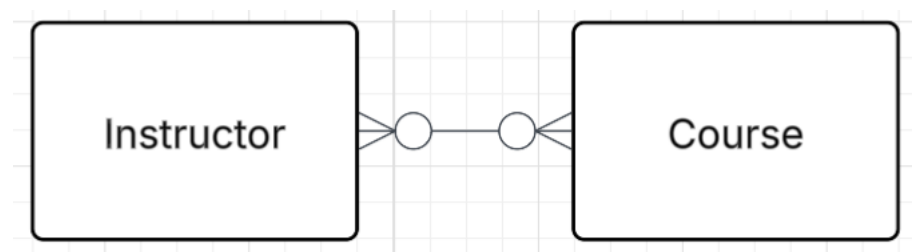
Program - ProgramCourse – Course:



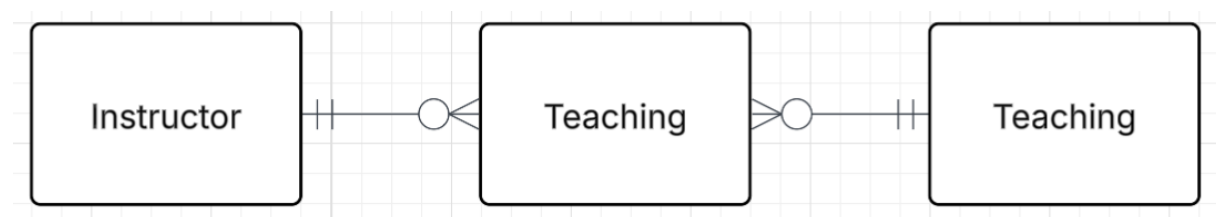
A program contains one or many courses. A course may belong to zero or many programs. A program-course association links exactly one program to one course.

Instructor & Courses

Instructor – Course:



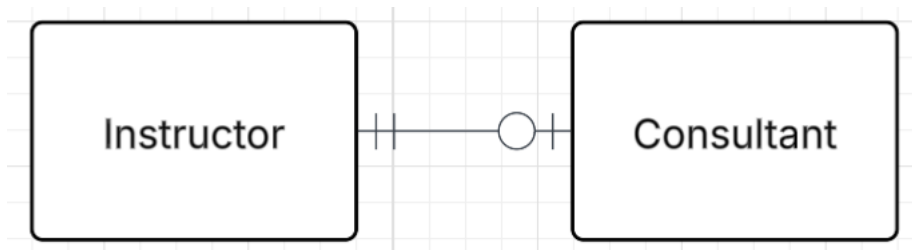
Or maybe like this?



An instructor can teach zero or many courses. A course can be taught by zero or many instructors.

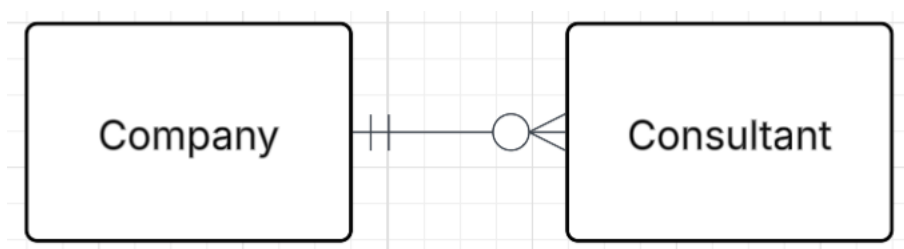
Consultant & Companies

Instructor – Consultant:



An instructor may or may not be a consultant. A consultant must be exactly one instructor.

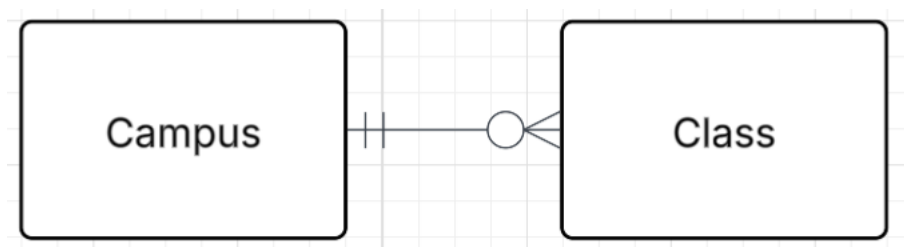
Company – Consultant:



A company can have zero or many consultants. A consultant belongs to exactly one company.

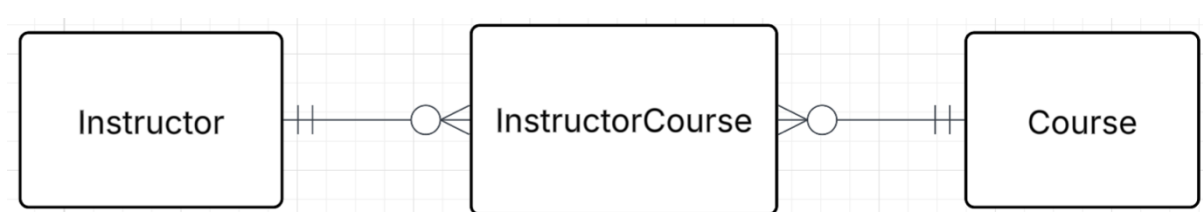
Campuses

Campus – Class:



A campus can host zero or many classes. A class belongs to exactly one campus.

Instructor – InstructorCourse - Course



An instructor can teach zero or many courses. A course can be taught by zero or many instructors. InstructorCourse represents the assignment of an instructor to a course. Each InstructorCourse links exactly one instructor to one course.