# **Exercise College**

**College 1:**

A student follows one or more courses, and a course is taught by a lecturer. Lecturers teaches students. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained.

**College 2 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained.

Extension: We need a list of which students get lectures of which lecturers.

**College 3 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers

Extension: Courses can have multiple lecturers.

**College 4 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers Courses can be taught – but not lectured – by multiple lecturers.

Extension: A lecturer can have multiple disciplines.

**College 5 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers Courses can be taught – but not lectured – by multiple lecturers. A lecturer can have multiple disciplines.

Extension: For the students, degrees are retained by course.

**College 6 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers Courses can be taught – but not lectured – by multiple lecturers. A lecturer can have multiple disciplines. For the students, degrees are retained by course.

Extension: A student must choose an internship within a discipline.

**College 7 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers Courses can be taught – but not lectured – by multiple lecturers. A lecturer can have multiple disciplines. For the students, degrees are retained by course. A student must choose an internship within a discipline.

Extension: A student is appointed a lecturer as coach for the internship.

**College 8 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers Courses can be taught – but not lectured – by multiple lecturers. A lecturer can have multiple disciplines. For the students, degrees are retained by course. A student must choose an internship within a discipline. A student is appointed a lecturer as coach for the internship.

Extension: The internship coach must come from the same discipline as the internship.

**College 9 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers Courses can be taught – but not lectured – by multiple lecturers. A lecturer can have multiple disciplines. For the students, degrees are retained by course. A student must choose an internship within a discipline. A student is appointed a lecturer as coach for the internship. The internship coach must come from the same discipline as the internship.

Extension: A course can be taught at different campuses.

**College 10 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers Courses can be taught – but not lectured – by multiple lecturers. A lecturer can have multiple disciplines. For the students, degrees are retained by course. A student must choose an internship within a discipline. A student is appointed a lecturer as coach for the internship. The internship coach must come from the same discipline as the internship. A course can be taught at different campuses.

Extension: Some courses build on other courses and can only be followed if a student has followed that other course

**College 11 (extension):**

A student follows one or more courses, and a course is taught by a lecturer. Of a student, name, address and age is retained. Of a lecturer, name, discipline and experience (number of years) is retained. We need a list of which students get lectures of which lecturers Courses can be taught – but not lectured – by multiple lecturers. A lecturer can have multiple disciplines. For the students, degrees are retained by course. A student must choose an internship within a discipline. A student is appointed a lecturer as coach for the internship. The internship coach must come from the same discipline as the internship. A course can be taught at different campuses. Some courses build on other courses and can only be followed if a student has followed that other course.

Extension: The information needs to be retained for multiple academic years.