Lab: Entity Relations

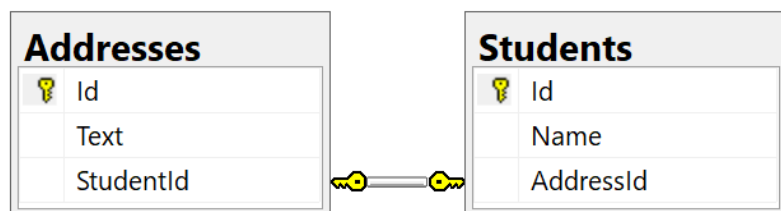You can check your solutions here: https://judge.softuni.bg/Contests/3202/Additional-Exercises.

9. One to Zero or One

Create database with two tables: **Students** and **Addresses.** The relationship of these tables should be one to one.

Use attributes wherever you can.

It should look like this:

Addresses
- Id (key)
- Text
- StudentId

Students
- Id (key)
- Name
- AddressId

Constraints

Your **namespaces** should be:

- **P01_StudentSystem** – for your Startup class, if you have one
- **P01_StudentSystem.Data** – for your DbContext
- **P01_StudentSystem.Data.Models** – for your models

Your **models** should be:

- **StudentSystemContext** – your DbContext
- **Student**:
  - StudentId
  - Name (up to 100 characters, unicode)
  - PhoneNumber (exactly 10 characters, not unicode, not required)
  - RegisteredOn
  - Birthday (not required)
- **Course**:
  - CourseId
  - Name (up to 80 characters, unicode)
  - Description (unicode, not required)
  - StartDate
  - EndDate
  - Price
- **Resource**:
  - ResourceId
  - Name (up to 50 characters, unicode)
  - Url (not unicode)
  - ResourceType (enum – can be Video, Presentation, Document or Other)
  - CourseId
- **Homework**:
  - HomeworkId
  - Content (string, linking to a file, not unicode)

10. One to Many

Create database with two tables: **Students** and **Grades**. The relationship of these tables should be one to many.

It should look like this:
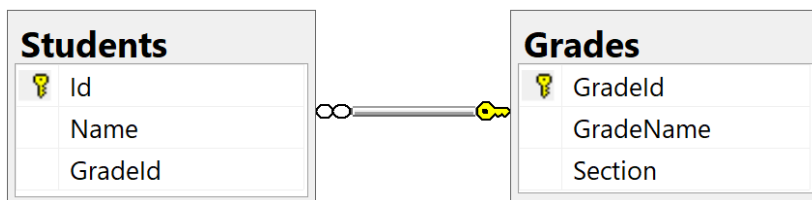
11. Many To-Many

Create database with two three: **Students**, **StudentsCourses** and **Courses**. The relationship of these tables should be many to many.

It should look like this:

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