Lab: Entity Relations

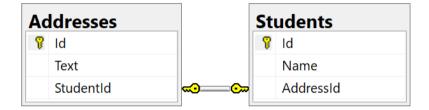
You can check your solutions here: https://judge.softuni.bg/Contests/3202/Additional-Exercises.

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:



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:

- Courseld
- 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)
- Courseld

Homework:

- HomeworkId
- Content (string, linking to a file, not unicode)



















- ContentType (enum can be Application, Pdf or Zip)
- SubmissionTime
- StudentId
- Courseld
- StudentCourse mapping class between Students and Courses

Table relations:

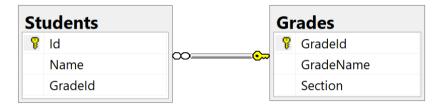
- One student can have many CourseEnrollments
- One student can have many HomeworkSubmissions
- One course can have many StudentsEnrolled
- One course can have many Resources
- One course can have many HomeworkSubmissions

You will need a constructor, accepting DbContextOptions to test your solution in Judge!

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:

