**Exercises: Entity Framework Core**

This document defines the **exercise assignments** for the entity framework core 02.

* **Student System**

Your task is to create a database for the **Student System**, using the **EF Core Code First** approach. It should look like this:



**Constraints**

Your **namespaces** should be:

* **P01\_StudentSystem** – Project Name
* **P01\_** **StudentSystem.Data** – (New folder named Data) for your DbContext
* **P01\_** **StudentSystem.Models** – (New folder named 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 (DateTime)
* 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)
* ContentType (enum – can be Application, Pdf or Zip)
* SubmissionTime
* StudentId
* CourseId
* **StudentCourse** – mapping class between **Students** and **Courses**

Table relations:

* **One student** can have **many CourseEnrollments**
* **One student** canhave **many HomeworkSubmissions**
* **One course** can have **many StudentsEnrolled**
* **One course** can have **many Resources**
* **One course** can have **many HomeworkSubmissions**
* **Seed Some Data in the Database**

Write a **seed method** that fills the database with sample data.  
Fill a few **students**, **courses**, **resources** and **homework submissions**.

* **Migration**

Add new migration. The migration should be named: **"InitialCreate" and run** the project.

**Bonus**

Create a console application that reads information about **courses** and **students** and store it.