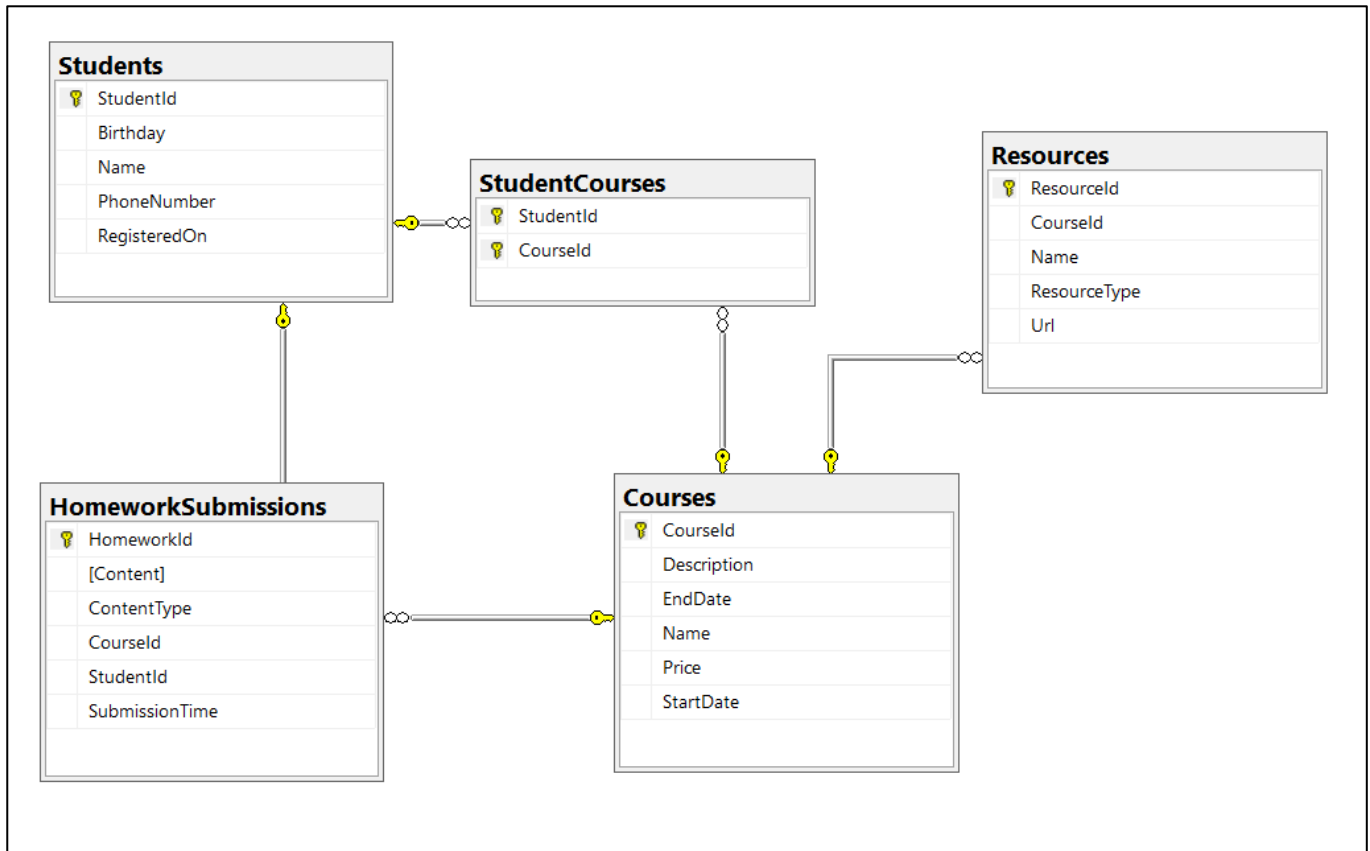


Exercises: Entity Framework Core

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

1. 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** can have **many HomeworkSubmissions**
- **One course** can have **many StudentsEnrolled**
- **One course** can have **many Resources**
- **One course** can have **many HomeworkSubmissions**

2. 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**.

3. 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.