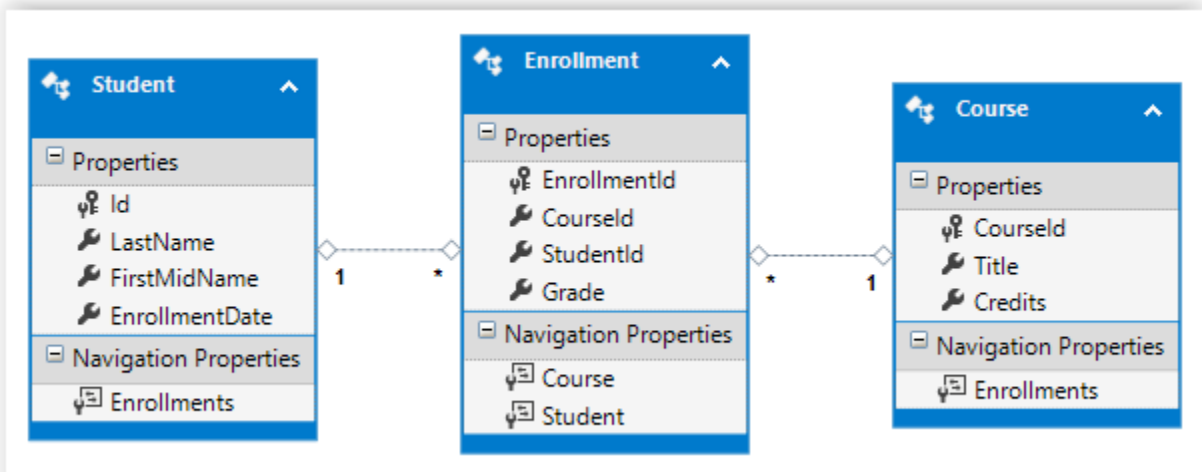


# EF Core: creating a data model and database

1. Write domain classes and a context class so EF can generate a database that matches the schema below. The name of the database must be 'SchoolDb'.



The *Grade* property of an *Enrollment* should be an enum with values A, B, C, D, E and F.

Write methods in your datalayer project to add and to retrieve data:

- Add / modify / remove a student / course / enrollment to the database
- Retrieve all students and at the same time, retrieve the courses for which the students are enrolled

Optional: write a user interface that uses your datalayer.

Optional: try to avoid code duplication in your datalayer by creating a generic repository base class.

2. Write domain classes and a context class so EF can generate a database that matches the scheme below. The name of the database must be 'ComplexSchoolDb'.  
You will need to deviate a little bit from the scheme below to be able to incorporate the many-to-many relation.  
Make sure that *CourseId* will map to a primary key column but **not** an identity column (so that the database will not automatically generate a *CourseId* when adding a course).  
Implement **Inheritance** for the *Student* and *Instructor* classes (**Person**).  
The *Grade* property of an *Enrollment* should be an enum with values A, B, C, D, E and F.  
Do not use Data Annotations, only Fluent API.  
LastName and FirstMidName should map to NOT NULL columns.  
  
Optional: write a user interface that uses your datalayer.

