1. What folder/file contains the information that is common to all the pages in the application?

Pages/Shared

1. What folder was created in order to hold the entity classes?

Models

1. What two property names does EF Core use by default in order to hold the primary key of an entity?

ID or classnameID.

1. Explain the purpose of navigation properties.

Navigation properties link related entities. This can be used to store relationships between several related entities or the relationship between the foreign entity and the principal entity.

1. If a navigation property needs to hold a reference to more than one entity, such in the case of a one-to-many relationship, what data type structure is used by EF Core?

A list type

1. What is the database term used for the field on the many side of a one-to-many relationship?

\*

1. When creating the Grade property in the Enrollment entity, what does the question mark signify?

That it is a nullable field.

1. What does scaffolding a model produce?

Scaffolding produces the views based on the model.

1. List the new files that were added to the application after scaffolding the student model.

Schoolcontext.cs, create.cshtml, delete.cshtml, Details.cshtml, Edit.cshtml, and Index.cshtml.

1. List the files that were changed as a result of scaffolding the student model.

Startup.cs and appsettings.json

1. In the SchoolContext class, what is the data type of the property that will hold the student data?

A DBSet

1. What was added to the appsettings.json file so that the application knows what database server and name will be used?

A connection string was added for our SchoolContext.

1. What is the purpose dependency injection?

Dependency injection allows you to separate the creation and implementation of an object allowing you to be more flexible and secure in the use of the object.

1. Briefly describe the purpose of the EnsureCreated method, and how it compares to using database migrations.

It ensures that the database is created if not it creates the data base. The EnsureCreated method doesn’t attempt to keep the model and the data base in sync. This is useful for evolving models to run and test the project to use migrations later.

1. Define the terms entity set and entity as used in the Entity Framework.

An entity set is the equivalent to a dbtable and an entity is equivalent to a db row.

1. Explain why coding the DbSet properties for Enrollment and Course are optional.

EF Framework already has them connected because Enrollment references the Course entity and Student references the Enrollment entity linking them all together in the Entity Framework.

1. During the database seed process, what block of code ensures that the database hasn’t already been created?

context.Database.EnsureCreated();

1. Using SQL Server Object Explorer, answer the following questions:
   1. Copy and paste the exact name of your database. (hint: use the property window)

SchoolContext-a73265d9-4a8b-419d-a65c-30e542bca649

* 1. What is the datatype/length of the Title column in the Course table?

Nvarchar(Max)

* 1. What did SQL Server name the foreign key between the Enrollment and Student tables?

FK\_Enrollment\_Student\_StudentID

1. The author of this tutorial makes a point to end this section with a discussion on Asynchronous programming being the default for ASP.NET Core. **Briefly** explain why this is important.

It allows more threads to be open at a time as the sever reopens the thread used to process requests during Input and Output operations.

1. What code file contains the OnGetAsync method that the sample code mentions?

The code files that contain OnGetAsync are Edit.cshtml.cs, Delete.cshtml.cs, View.cshtml.cs, Index.cshtml.cs and Create.cshtml.cs.