

What is the difference between IEnumerable and List?

IEnumerable is the base interface that List implements. It doesn't allow for direct access and is readonly. Good use if you only intend to iterate over the collection. List provides more operations such as direct access using index, add and remove items.

What is the difference between IEnumerable and IQueryable?

IEnumerable filters data from within memory, while IQueryable does it on the SQL Server side. IQueryable can be translated to a SQL script that will be executed in SQL server, which can bring a significant performance benefit compared to bringing the data from the SQL server to the application memory and then performing the query in-memory using IEnumerable.

What is the difference between Database First Approach and Code First Approach? When to use which?

DataBase-First is that you reverse engineer an existing database to create an Entity Framework model. Instead of designing the EDMX or tables along with their properties manually and generating the SQL script to create the Database, we build the latter and then generate the former using the Entity Framework Designer tool.

Code-First uses migrations to create the database from the data model you define.

When the database is already created, use Database First Approach, else use Code First Approach.