# EF DB first:

Database first is the approach by Entity Framework used when we need to reverse engineer our database model into classes to be consumed by our application. It gives a great possibility to connect new projects with existing databases, a very important feature when software is being migrated to new technology.

The Database First approach is capable of translating existing objects in your database into classes in your project. Database First is supported by all the Entity Framework Core providers and is able to perfectly reflect data fields, data types, and table relationships from a wide range of data sources into your project language.

When you need to connect an existing database to a brand new project you should definitely consider the Database First approach to spare time reflecting those classes into your project.

Nuget Installation:

* Microsoft.EntityFrameworkCore
* Microsoft.EntityFrameworkCore.Design
* Microsoft.EntityFrameworkCore.SqlServer
* Microsoft.EntityFrameworkCore.Tools
* Microsoft.EntityFrameworkCore.Proxies

Model Creation:

1. In PM:
   1. Change directory to project directory
   2. Type:   
      Scaffold-DbContext "Server=TallyPC\MSSQLSERVER01;Database=DBfirst;Trusted\_Connection=True;Encrypt=False" Microsoft.EntityFrameworkCore.SqlServer -OutputDir Models -force
2. In Program.cs add:

builder.Services.AddDbContext<DbfirstContext>(options =>

options.UseLazyLoadingProxies().UseSqlServer(builder.Configuration.GetConnectionString("DbConnection")));

3. In context delete: OnConfiguring method

Call for SP:

var students = context.Students

.FromSql($"GetStudents {name}")

.ToList();

public void addmessage(<yourEntity> \_msg)

{

var date = new SqlParameter("@date", \_msg.MDate);

var subject = new SqlParameter("@subject", \_msg.MSubject);

var body = new SqlParameter("@body", \_msg.MBody);

var fid = new SqlParameter("@fid", \_msg.FID);

this.Database.ExecuteSqlCommand("exec messageinsert @Date , @Subject , @Body , @Fid", date,subject,body,fid);

}

Task:

Create a new database in sql management studio

Add on table: Products with columns:

Id as identity

Name

Price

Create Models and context using DB first

Add Products controller and repository.