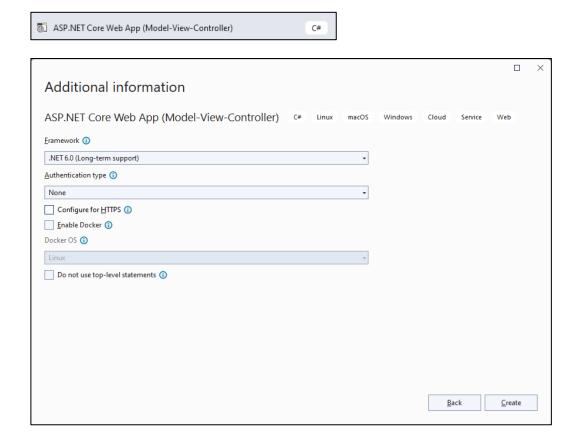
1. Criar um projeto novo

ASP.NET Core Web Application (Model-View-Controller)



2. Criar a base dados

VS > Abrir ContactDB_Script_All.sql > Connect ao servidor > Execute

VS > Painel SQL Server Object Explorer > Conetar ao servidor > Verificar a base de dados

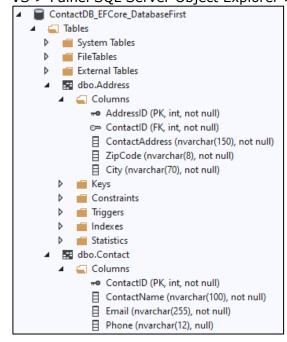
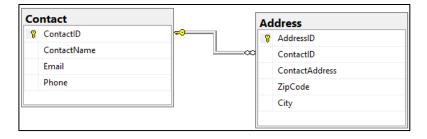


Diagrama ER:



3. Instalar packages

Abrir package manager console (PM)

```
Install-Package Microsoft.EntityFrameworkCore.SqlServer -Version 6.0.29 Install-Package Microsoft.EntityFrameworkCore.Tools -Version 6.0.29 Install-Package Microsoft.EntityFrameworkCore.Design -Version 6.0.29
```

Verificar os packages instalados.

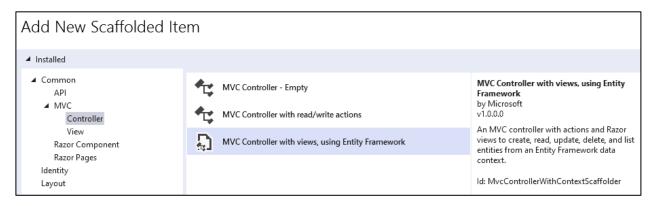
4. Fazer scaffolding à base de dados

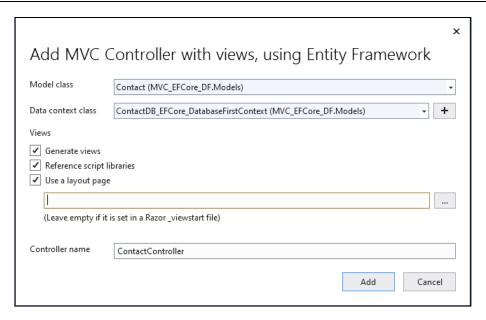
- Abrir package manager console (PM)
 Scaffold-DbContext "Server=NomeServidor; Database= ContactDB_EFCore_DatabaseFirst; Trusted_Connection=True; "Microsoft.EntityFrameworkCore.SqlServer -OutputDir Models
- Verificar os modelos e a classe do contexto:



5. Criar os controladores para os modelos

Controllers > Right click > Add > Controller > MVC Controller with views, using Entity Framework > Add

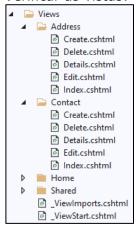




- Repetir a operação para todos os modelos
- Verificar os controladores:



Verificar as vistas:



6. Alterar a localização da connection string

- ContactDB_EFCore_DatabaseFirstContext.cs > Comentar o conteúdo do método OnConfiguring
- Editar appsettings.json > Acrescentar a secção da connection string

```
"ConnectionStrings": {
    "ContactDB_EFCore_DatabaseFirstContext":
"Server=NomeServidor; Database=ContactDB_EFCore_DatabaseFirst; Trusted_Connection=True"
}
```

7. Adicionar o serviço da EF

 Program.cs > Incluir as namespaces Microsoft.EntityFrameworkCore e a do modelo > Registar a connection string > Configurar a EF

```
// TODO MRS: ler connection string de appsettings.json
var connectionString = builder.Configuration.GetConnectionString("ContactDB_EFCore_DatabaseFirstContext");
// TODO MRS: configurar a EF
builder.Services.AddDbContext<ContactDB_EFCore_DatabaseFirstContext>(options =>
    options.UseSqlServer(connectionString));
```

```
Program.cs + X
EF DF
            _using EF_DF.Models;
              using Microsoft.EntityFrameworkCore;
             using System.Configuration;
              var builder = WebApplication.CreateBuilder(args);
              // Add services to the container.
              // TODO MRS: ler connection string de appsettings.json
              var connectionString = builder.Configuration.GetConnectionString("ContactDB_EFCore_DatabaseFirstContext");
     12
              // TODO MRS: configurar a EF
             builder.Services.AddDbContext<ContactDB_EFCore_DatabaseFirstContext>(options => options.UseSqlServer(connectionString));
     13
     14
     15
             builder.Services.AddControllersWithViews();
     17
              var app = builder.Build();
     18
              // Configure the HTTP request pipeline.
     19
            =if (!app.Environment.IsDevelopment())
     20
     21
     22
                  app.UseExceptionHandler("/Home/Error");
     23
              app.UseStaticFiles();
     24
25
             app.UseRouting();
     26
     27
     28
              app.UseAuthorization();
     29
              app.MapControllerRoute(
     30
     31
     32
                 pattern: "{controller=Home}/{action=Index}/{id?}");
              app.Run();
```

8. Alterar o layout

Layout.cshtml > Incluir os links na navigation bar para os novos controladores

9. Testar a aplicação

Fazer os ajustes nas views que considerar pertinentes:

