Baza de date: EfCore2020.dbo

SQL Server Browser

Etape:

1. Verificare servicii SqlServer functionale (services.msc)



Provides SQ...

Running

Automatic (...

Local Service

2. Creare project de tip ClassLibrary in VS 2019 – numit ClassLibraryNetCore



- 3. Creare baza de date **EfCore2020.dbo** cu SqlServer2012 (instanta bd Sql2012new fara tabele).
- 4. Adaugare dependente cu Package Manager Console (PMC)

```
install-package Microsoft.EntityFrameworkCore -Version 3.1.1
install-package Microsoft.EntityFrameworkCore.SqlServer -Version 3.1.1
install-package Microsoft.EntityFrameworkCore.tools -Version 3.1.1
```

5. Proiectul MsBuild (.csproj) in final:

```
Version="4.7.0" />
     </ItemGroup>
</Project>
```

6. Descriere model

```
using System;
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;
using System.Text;
namespace ClassLibraryNetCore.Model
    public partial class Client
        public int ClientId { get; set; }
        [MaxLength(20)]
        public string Name { get; set; }
        [MaxLength(50)]
        public string Email { get; set; }
        // 0 = inregistrare corecta; 1 = inregistrare stearsa
        //public int Deleted { get; set; }
        public ICollection<Order> Orders { get; set; }
        protected Client() { }
    }
}
etc.
```

7. Decriere context

```
using Microsoft.EntityFrameworkCore;
using Microsoft.EntityFrameworkCore.SqlServer;
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Text;
namespace ClassLibraryNetCore.Model
    internal class ModelContext: DbContext
        public DbSet<Client> Clients { get; set; }
        public DbSet<Order> Orders { get; set; }
        public DbSet<OrderDetails> OrderDetails { get; set; }
        public DbSet<Product> Products { get; set; }
        protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)
        {
            optionsBuilder.UseSqlServer("Server=iasimin-vostro\\sql2012new;
                 Database=EFCore2020; Trusted Connection=True");
            //ChangeTracker.LazyLoadingEnabled = false;
        }
        protected override void OnModelCreating(ModelBuilder modelBuilder)
            modelBuilder.Entity<Client>()
```

```
.HasMany<Order>(o => o.Orders)
.WithOne(c => c.Client);

modelBuilder.Entity<OrderDetails>()
    .HasOne<Order>(od => od.Order)
    .WithMany(o => o.OrderDetails);

modelBuilder.Entity<Product>()
    .HasMany<OrderDetails>(p => p.OrderDetails)
    .WithOne(od => od.Product);
}

}
}
```

- 8. In PMC se folosesc: add-migration si update-database
- 9. Baza de date rezultata:



