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Day-5

DbFirst:

using Db first approch in entity framework and list trees in the homepage.

Command

Scaffold-DbContext "Data Source=PTPLL605;Initial Catalog=sampledb;Integrated Security=True;TrustServerCertificate=True;" Microsoft.EntityFrameworkCore.SqlServer -outputDir Models -ContextDir Data -Force

Program.cs

```
using GitApplication2.Data;
var builder = WebApplication.CreateBuilder(args);
builder.Services.AddDbContext<SampledbContext>();
builder.Services.AddControllersWithViews();
var app = builder.Build();
if (!app.Environment.IsDevelopment())
{
     app.UseExceptionHandler("/Home/Error");
     // The default HSTS value is 30 days. You may want to change this for production scenarios, see
https://aka.ms/aspnetcore-hsts.
     app.UseHsts();
}
app.UseHttpsRedirection();
app.UseStaticFiles();
app.UseRouting();
app.UseAuthorization();
app.MapControllerRoute(
     name: "default",
     pattern: "{controller=Home}/{action=Index}/{id?}");
```

```
app.Run();
SampleDbContext.cs
using System.Collections.Generic;
using GitApplication2. Models;
using Microsoft.EntityFrameworkCore;
namespace GitApplication2.Data;
public partial class SampledbContext : DbContext
     public SampledbContext()
     {
     }
     public SampledbContext(DbContextOptions<SampledbContext> options)
          : base(options)
     {
     }
     public virtual DbSet<MyTree> MyTrees { get; set; }
     public virtual DbSet<Prod> Prods { get; set; }
     public virtual DbSet<Student> Students { get; set; }
     protected\ override\ void\ On Configuring (DbContextOptions Builder\ options Builder)
```

#warning To protect potentially sensitive information in your connection string, you should move it out of source code. You can avoid scaffolding the connection string by using the Name= syntax to read it from configuration - see

https://go.microsoft.com/fwlink/?linkid=2131148. For more guidance on storing connection strings, see https://go.microsoft.com/fwlink/?LinkId=723263.

=> optionsBuilder.UseSqlServer("Data Source=PTPLL605;Initial Catalog=sampledb;Integrated
Security=True;TrustServerCertificate=True;");

```
protected override void OnModelCreating(ModelBuilder modelBuilder)
{
     modelBuilder.Entity<MyTree>(entity =>
     {
         entity.ToTable("myTree");
         entity.Property(e => e.Description).HasMaxLength(50);
         entity.Property(e => e.Name).HasMaxLength(20);
     });
     modelBuilder.Entity<Prod>(entity =>
     {
         entity.ToTable("prod");
     });
     modelBuilder.Entity<Student>(entity =>
     {
         entity.ToTable("students");
         entity.Property(e => e.StudentId).HasColumnName("StudentID");
    });
     OnModelCreatingPartial(modelBuilder);
}
```

```
partial void OnModelCreatingPartial(ModelBuilder modelBuilder);
}
MyTree.cs
using System;
using System.Collections.Generic;
namespace GitApplication2. Models;
public partial class MyTree
{
     public int Id { get; set; }
     public string Name { get; set; } = null!;
     public string Description { get; set; } = null!;
     public int NoOfTrees { get; set; }
}
HomeController.cs
using GitApplication2.Data;
using GitApplication2.Models;
using Microsoft.AspNetCore.Mvc;
using System.Diagnostics;
namespace GitApplication2.Controllers
```

```
public class HomeController: Controller
{
     private readonly ILogger<HomeController> _logger;
     SampledbContext _sampledbContext;
     public HomeController(ILogger<HomeController> logger,SampledbContext _sampledbContext)
     {
         _logger = logger;
         this._sampledbContext = _sampledbContext;
    }
     public IActionResult Index()
    {
         var alltrees = _sampledbContext.MyTrees.ToList();
         return View(alltrees);
    }
     public IActionResult Privacy()
     {
         return View();
    }
     [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]
     public IActionResult Error()
     {
         return View(new ErrorViewModel { RequestId = Activity.Current?.Id ?? HttpContext.TraceIdentifier });
     }
```

{

```
}
}
Home/index.cshtml
@{
   ViewData["Title"] = "Tree Page";
}
@model List<MyTree>
<div class="text-center">
   <h1 class="display-4">Welcomet to Tree Page</h1>
@* @{
   var trees = ViewData["allTrees"] as List<MyTree>;
} *@
   <thead>
           Name
               Description
               No of trees
           </thead>
       @foreach (var tree in Model)
           {
```

Welcomet to Tree Page

Name	Description	No of trees
apple	apple from jammu	8
mango tree	mango is yellow	9
coconut	it used for cooking	10