**Day 11 Entity Frame Work**

Already explained Previous notes (how to install entity framework and use)

How to create automatically database and tables using Entity Frame work.

**Step 1: Create model class (name : Customer.cs)**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

namespace EFwork.Models

{

public class Customer

{

public int ID { get; set; }

public String Name { get; set; }

public String Gender { get; set; }

public String Address { get; set; }

public String Email { get; set; }

}

}

**Step 2: create CustomerDataContext.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Data.Entity;

Database name

namespace EFwork.Models

{

Database table name

public class CustomerDataContext:DbContext

{

public CustomerDataContext()

: base("CustomerDBConnection")

{

}

public DbSet<Customer> Customers { get; set; }

}

}

**Step 3: web.config file add connection strings.(ctrl+s) automatically created database only.**

<configuration>

<configSections>

<section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework, Version=6.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" requirePermission="false" />

</configSections>

<connectionStrings>

<add name="CustomerDBConnection" connectionString="Data Source=.\sqlexpress;Integrated Security=SSPI" providerName="System.Data.SqlClient" />

</connectionStrings>

<appSettings>

**Step 4: create a controller with Empty MVC Controllers (mvc 4.0 not support entity framework controller read/write actions**)

See

<https://stackoverflow.com/questions/19513599/scaffolding-entityframework-6-unable-to-cast-object-of-type-system-data-entity>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.Mvc;

using EFwork.Models;

namespace EFwork.Controllers

{

public class HomeController : Controller

{

//

// GET: /Home/

public ActionResult Index()

{

var db = new CustomerDataContext();

var tb = db.Customers;

return View(tb);

}

public ActionResult Create()

{

return View();

}

[HttpPost]

public ActionResult Create(Customer c)

{

var db = new CustomerDataContext();

if (ModelState.IsValid)

{

db.Customers.Add(c);

db.SaveChanges();

return RedirectToAction("Index");

}

return View(c);

}

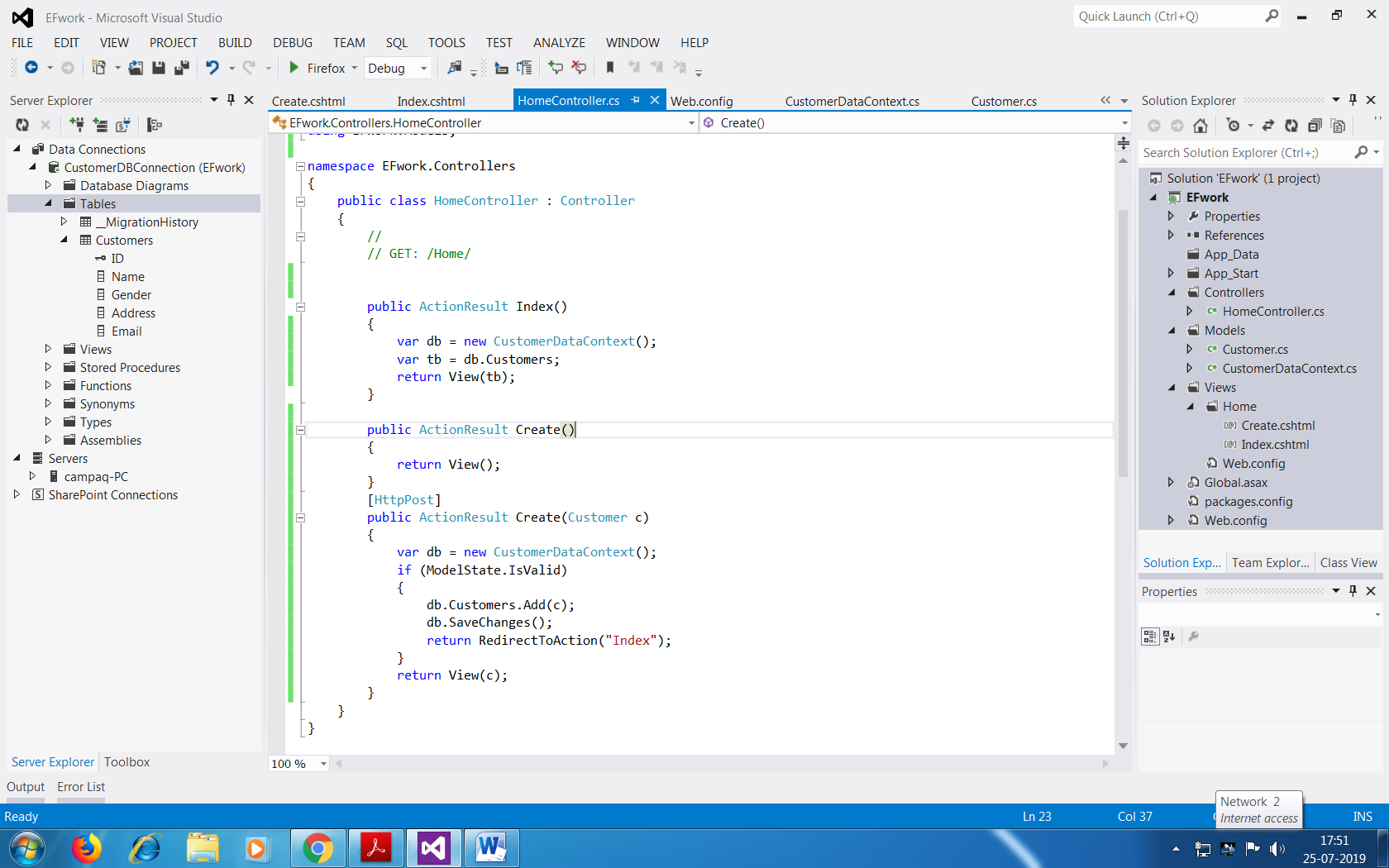
}

}

**Step 5: create View using scaffolding (automatic view)**

Save and Build : ctrl + shift + b

Run: ctrl + f5 (automatically created database table and values inserted)



Output:

