

## 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;
namespace EFwork.Models
{
    public class CustomerDataContext: DbContext
    {
        public CustomerDataContext()
            : base("CustomerDBConnection")
        {
        }
        public DbSet<Customer> Customers { get; set; }
    }
}
```

Database name

Database table name

### 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);
        }

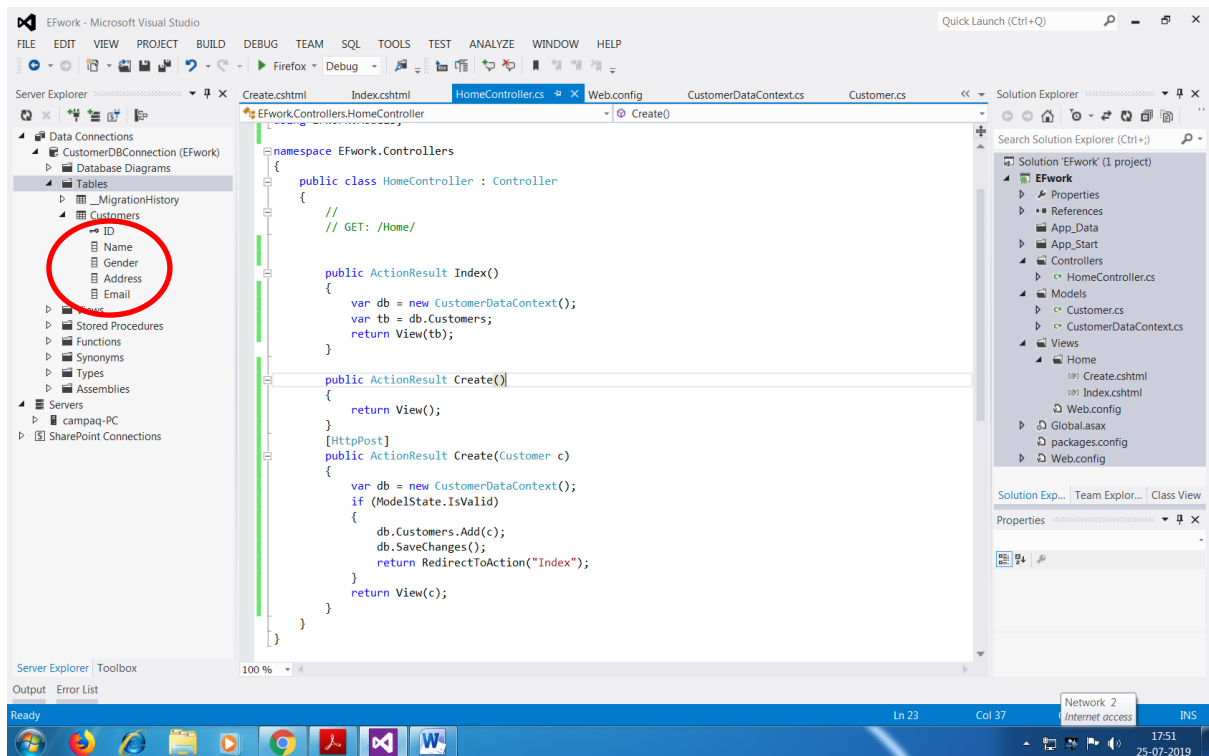
        public ActionResult Create()
        {
            return View();
        }

        [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);
        }
    }
}
```

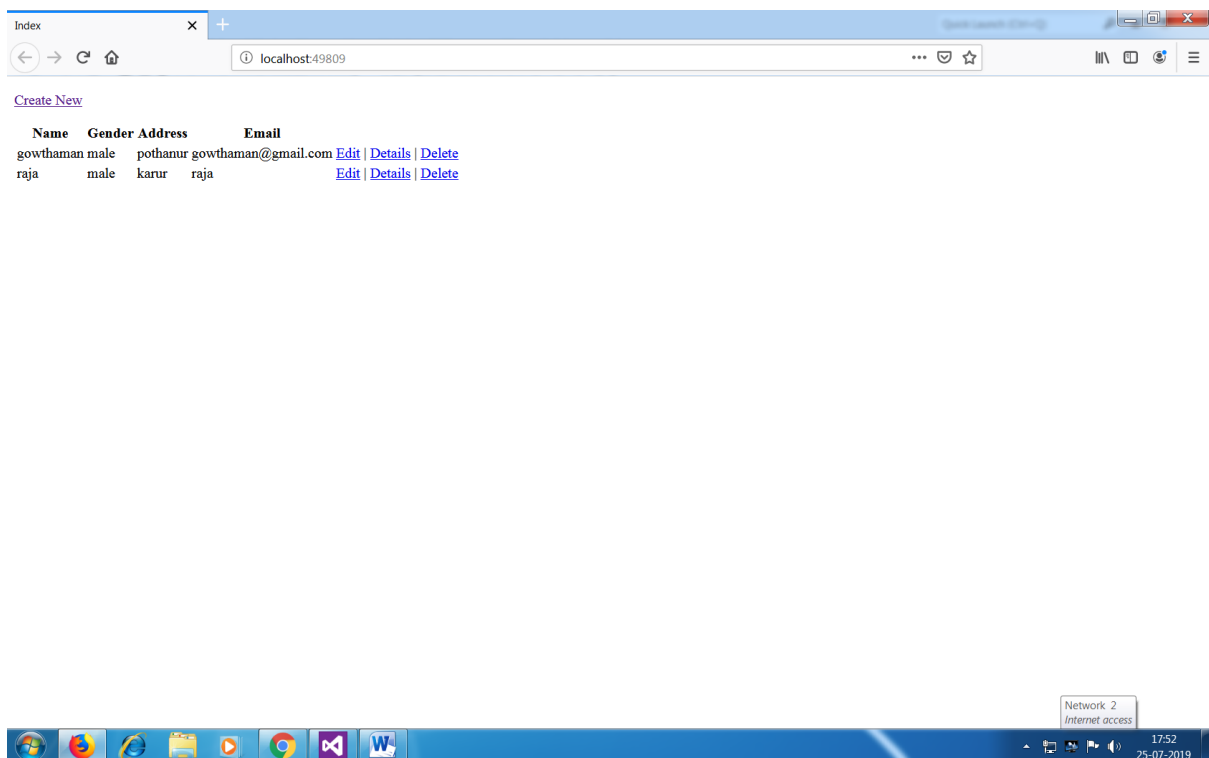
**Step 5: create View using scaffolding (automatic view)**

Save and Build : ctrl + shift + b

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



Output:



Create

localhost:49809/Home/Create

Customer

Name

Gender

Address

Email

Create

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