

❑ Step-by-Step Guide to Automatically Create ASP.NET Core Project using Script

✓ Technologies Used

- ASP.NET Core MVC
 - Entity Framework Core (Code-First)
 - SQL Server
 - Clean Architecture Layers:
 - Core
 - Application
 - Infrastructure
 - Web
-

📁 Step 1: Download Script File

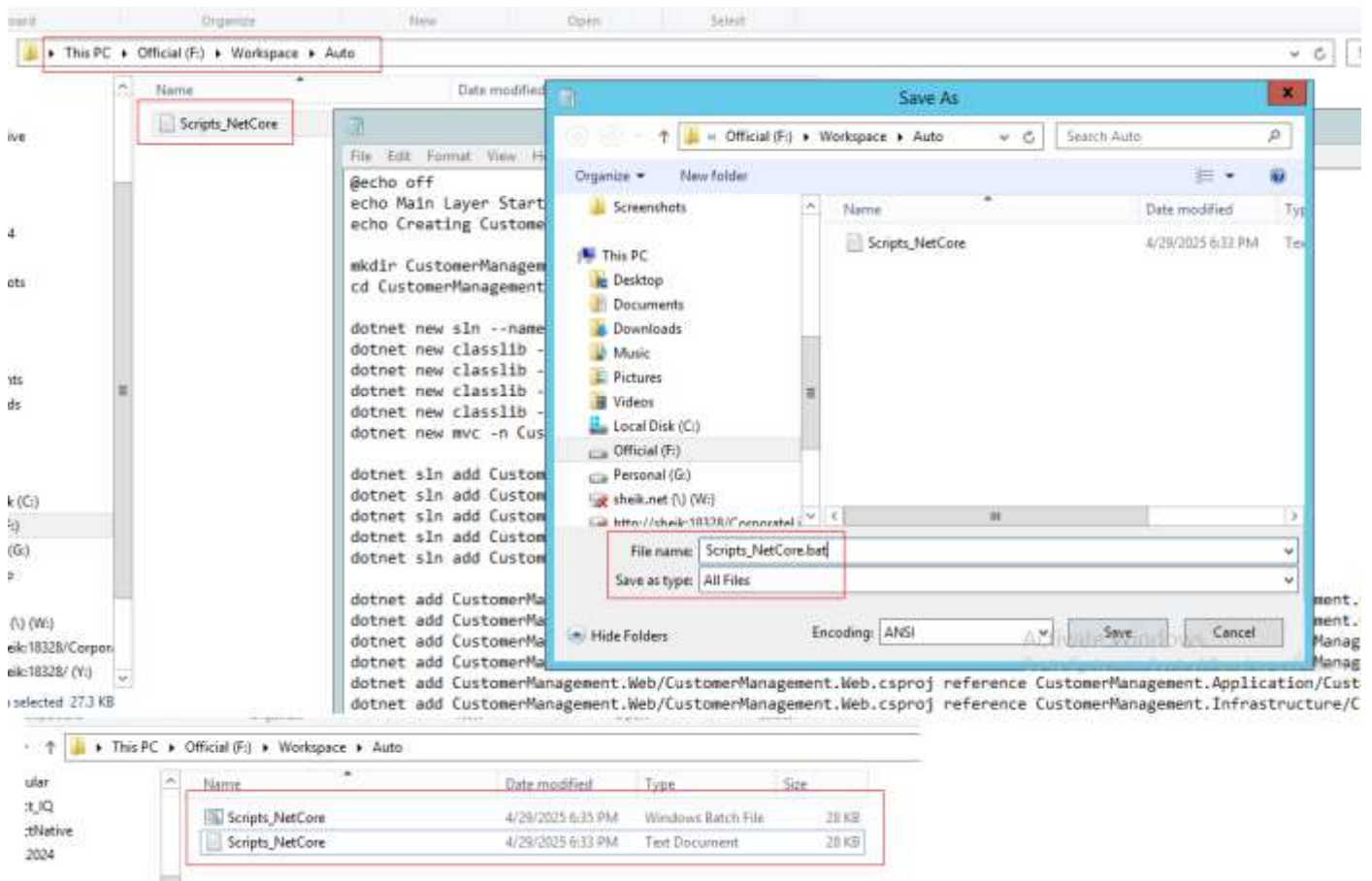
- Download the **text file** (sent via email).
- Save it to your desired **project directory location**.

■ Step 2: Convert to Executable Script

- Open the saved text file.
- Save it as:

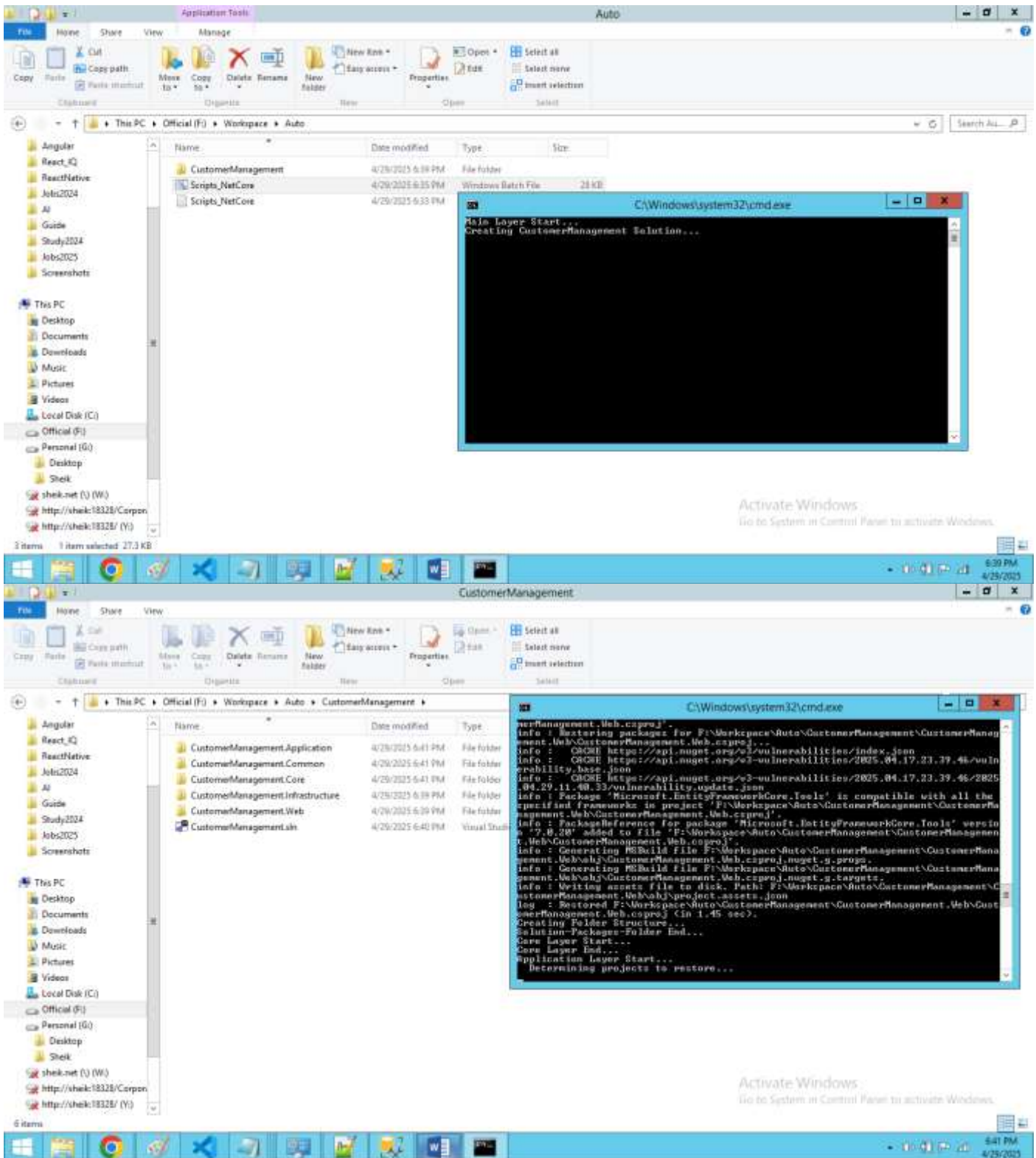
`Scripts_NetCore.txt → Scripts_NetCore.dat`

Ensure the file extension is changed from `.txt` to `.bat`.



✂ Step 3: Run the Batch Script

- **Double-click** `Scripts_NetCore.bat`.
- A **Windows PowerShell** window will pop up.
- The script will begin **creating the project folder** and scaffolding all architecture layers automatically.
- You will see status messages as the script progresses.



🔑 Step 4: Enter Database Details

- When prompted in PowerShell, enter your **SQL Server connection details** one by one:
 - Server Name
 - Database Name
 - User ID
 - Password

These details are used for the **EF Core Code-First** database setup.

```
C:\Windows\system32\cmd.exe

ions.microsoft.dependencyinjection/index.json
info : OK https://api.nuget.org/v3/registration5-gz-semver2/automapper.extensions.microsoft.dependencyinjection/index.json 21692ms
info : Restoring packages for F:\Workspace\Auto\CustomerManagement\CustomerManagement.Application\CustomerManagement.Application.csproj...
info : CACHE https://api.nuget.org/v3/vulnerabilities/index.json
info : CACHE https://api.nuget.org/v3-vulnerabilities/2025.04.17.23.39.46/vulnerability.base.json
info : CACHE https://api.nuget.org/v3-vulnerabilities/2025.04.17.23.39.46/2025.04.29.11.40.33/vulnerability.update.json
info : Package 'AutoMapper.Extensions.Microsoft.DependencyInjection' is compatible with all the specified frameworks in project 'F:\Workspace\Auto\CustomerManagement\CustomerManagement.Application\CustomerManagement.Application.csproj'.
info : PackageReference for package 'AutoMapper.Extensions.Microsoft.DependencyInjection' version '12.0.1' added to file 'F:\Workspace\Auto\CustomerManagement\CustomerManagement.Application\CustomerManagement.Application.csproj'.
info : Writing assets file to disk. Path: F:\Workspace\Auto\CustomerManagement\CustomerManagement.Application\obj\project.assets.json
log : Restored F:\Workspace\Auto\CustomerManagement\CustomerManagement.Application\CustomerManagement.Application.csproj (in 883 ms).
Application Layer End...
Infrastructure Layer Start...
Infrastructure Layer End...
Web-Program-Config Layer Start...
Enter your database details:
Enter your Server Name: 
Enter your Database Name: TestAutoProjDb
Enter your User Id: sa
Enter your Password: 
```

🔧 Step 5: Build and Launch

- After the setup, wait for the message:

Build Succeeded

- The application will launch automatically in your default browser.
- Example URL:

<http://localhost:5139/>

```
Administrator: Windows PowerShell

ement.Core\bin\Debug\net7.0\CustomerManagement.Core.dll
CustomerManagement.Infrastructure -> F:\Workspace\Auto\CustomerManagement\CustomerManagement.Infrastructure\bin\Debug\net7.0\CustomerManagement.Infrastructure.dll
CustomerManagement.Application -> F:\Workspace\Auto\CustomerManagement\CustomerManagement.Application\bin\Debug\net7.0\CustomerManagement.Application.dll
CustomerManagement.Web -> F:\Workspace\Auto\CustomerManagement\CustomerManagement.Web\bin\Debug\net7.0\CustomerManagement.Web.dll

Build succeeded.
    0 Warning(s)
    0 Error(s)

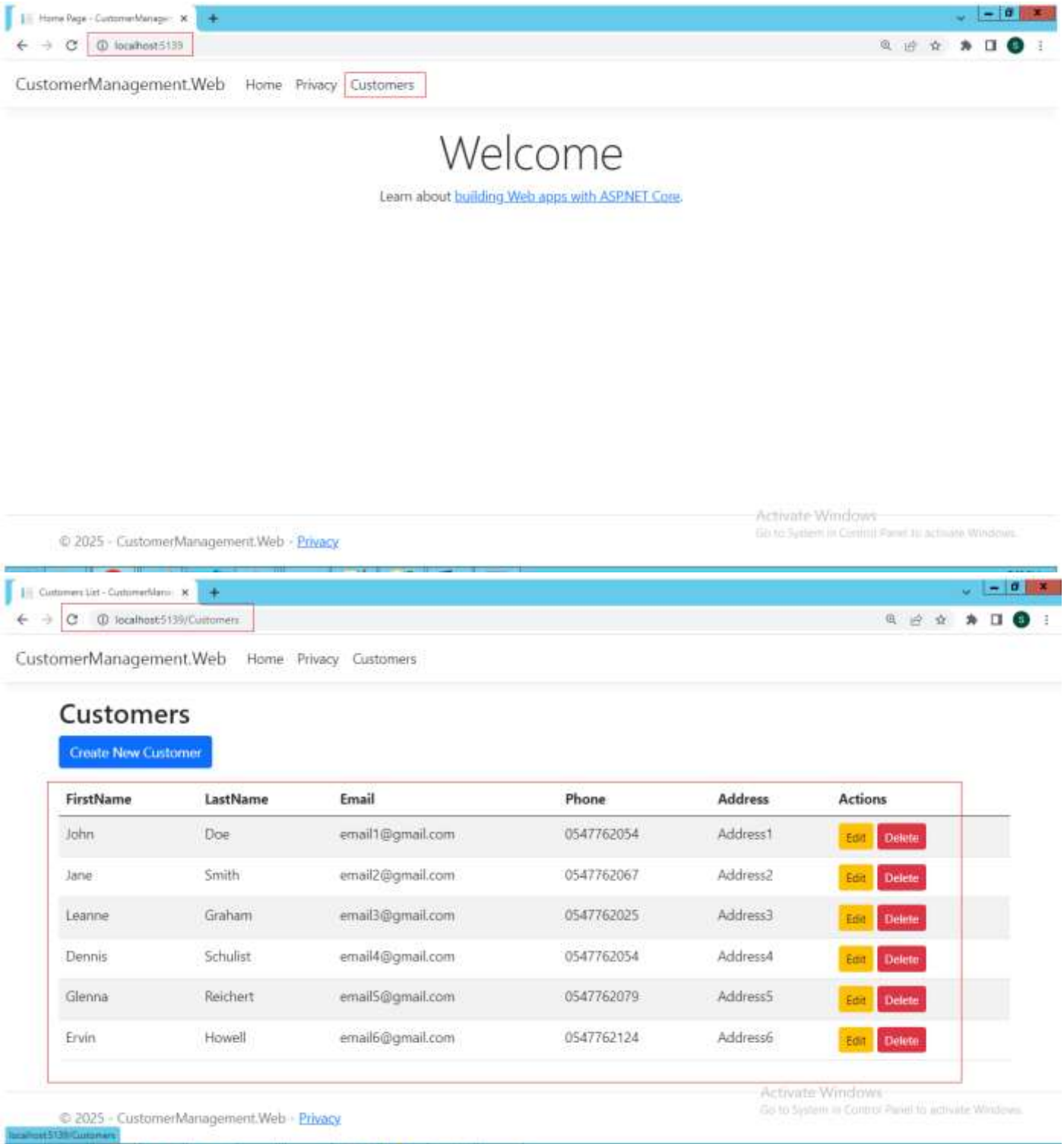
Time Elapsed 00:00:04.71
Building...
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5139
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: F:\Workspace\Auto\CustomerManagement\CustomerManagement.Web
```

Step 6: Explore the Application

- The created application is a **Customer Management System**.
- Features include:
 - View customer list
 - Add, Edit, Delete customers (**CRUD** operations)
- You can now test the functionality of the system.

Summary

Feature	Description
Script Execution	.bat file via PowerShell
Architecture	Clean: Core, App, Infra, Web
ORM	Entity Framework Core (Code First)
DB	SQL Server
Output	Fully working ASP.NET Core MVC Application



Create Customer - CustomerMan

localhost:5139/Customers/Create

CustomerManagement.Web | Home | Privacy | Customers

Create Customer

First Name

Sheik Abdul

Last Name

Khadar

Email Address

sheik1@gmail.com

Phone

0547762032

Address

Dubai

Create

Back to List

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Activate Windows
Go to System in Control Panel to activate Windows.

Customers List - CustomerMan

localhost:5139/Customers

CustomerManagement.Web | Home | Privacy | Customers

Customers

Create New Customer

FirstName	LastName	Email	Phone	Address	Actions
John	Doe	email1@gmail.com	0547762054	Address1	<div>EditDelete</div>
Jane	Smith	email2@gmail.com	0547762067	Address2	<div>EditDelete</div>
Leanne	Graham	email3@gmail.com	0547762025	Address3	<div>EditDelete</div>
Dennis	Schulist	email4@gmail.com	0547762054	Address4	<div>EditDelete</div>
Glenna	Reichert	email5@gmail.com	0547762079	Address5	<div>EditDelete</div>
Ervin	Howell	email6@gmail.com	0547762124	Address6	<div>EditDelete</div>
Sheik Abdul	Khadar	sheik1@gmail.com	0547762032	Dubai	<div>EditDelete</div>

Activate Windows

Go to System in Control Panel to activate Windows.

Edit Customer - CustomerManu: X

localhost:5139/Customers/Edit/7

CustomerManagement.Web | Home | Privacy | Customers

Edit Customer

First Name

Sheik Abdul

Last Name

Khadar1

Email Address

sheik2@gmail.com

Phone

054776888

Address

AbuDhabi

Save Changes

Back to List

Activate Windows

Go to System in Control Panel to activate Windows.

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Customers List - CustomerManu: X

localhost:5139/Customers

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Create New Customer

FirstName	LastName	Email	Phone	Address	Actions
John	Doe	email1@gmail.com	0547762054	Address1	<div>EditDelete</div>
Jane	Smith	email2@gmail.com	0547762067	Address2	<div>EditDelete</div>
Leanne	Graham	email3@gmail.com	0547762025	Address3	<div>EditDelete</div>
Dennis	Schulist	email4@gmail.com	0547762054	Address4	<div>EditDelete</div>
Glenna	Reichert	email5@gmail.com	0547762079	Address5	<div>EditDelete</div>
Ervin	Howell	email6@gmail.com	0547762124	Address6	<div>EditDelete</div>
Sheik Abdul	Khadar1	sheik2@gmail.com	054776888	AbuDhabi	<div>EditDelete</div>

Activate Windows

Go to System in Control Panel to activate Windows.

Object Explorer

Connect

SettingsServiceDB

SharePoint_AdminContent_33bc6e4b-b12

SharePoint_Config

SMS

Social DB

Sync_46e3f4c8-f70d-4455-8bf3-db1648da

TALENTMGMTDB

Test

TestAutoProjDb

Database Diagrams

Tables

System Tables

FileTables

External Tables

dbo__EFMigrationsHistory

dbo.Customers

Views

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

WFInstanceManagementDB

WFManagementDB

WFResourceManagementDB

WSS_collaboration.mdlz.com

WSS_Content

WSS_Content_435f229f-b9fc-4d9a-bc8d-e

SQLQuery2.sql - SH...utoProjDb (sa (55))

/***** Script for SelectTopNRows command from SSMS *****/

SELECT TOP (1000) [CustomerId]

, [FirstName]

, [LastName]

, [Email]

, [Phone]

, [Address]

FROM [TestAutoProjDb].[dbo].[Customers]

100 %

Results Messages

	CustomerId	FirstName	LastName	Email	Phone	Address
1	1	John	Doe	email1@gmail.com	0547762054	Address1
2	2	Jane	Smith	email2@gmail.com	0547762067	Address2
3	3	Leanne	Graham	email3@gmail.com	0547762025	Address3
4	4	Dennis	Schulist	email4@gmail.com	0547762054	Address4
5	5	Glenna	Reichert	email5@gmail.com	0547762079	Address5
6	6	Ervin	Howell	email6@gmail.com	0547762124	Address6
7	7	Sheik Abdul	Khadar1	sheik2@gmail.com	054776888	AbuDhabi

Query executed successfully.