

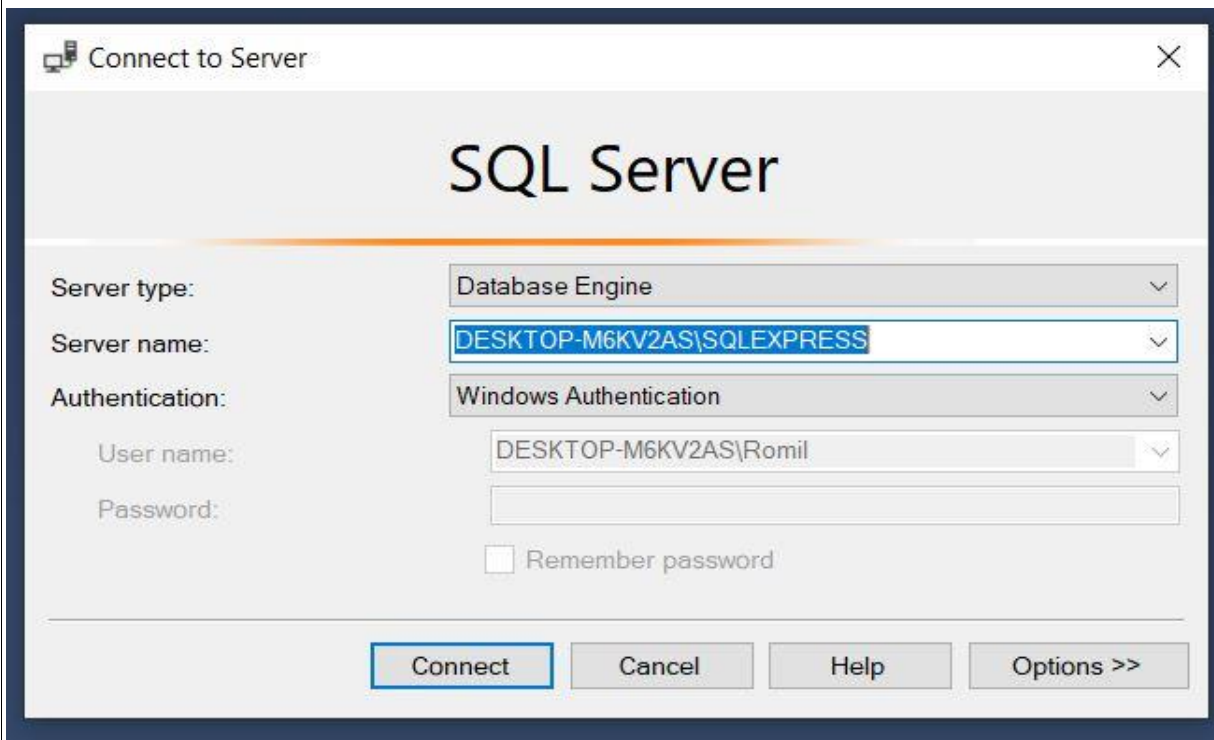
Date: / /2020

**Practical no 7**

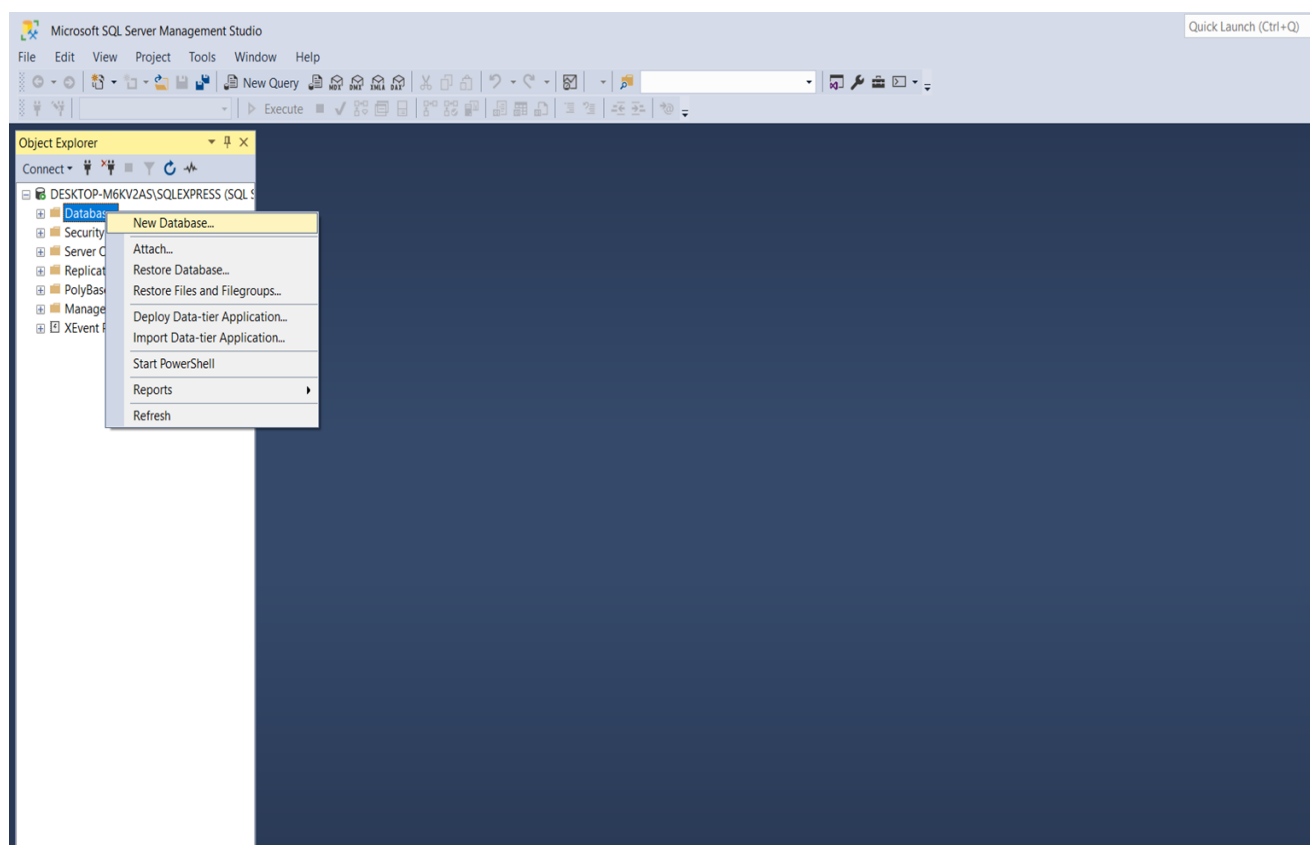
**AIM:** ; Define a web service method that returns the contents of a database in a JSON string. The contents should be displayed in a tabular format.

**Steps for creating a Database:**

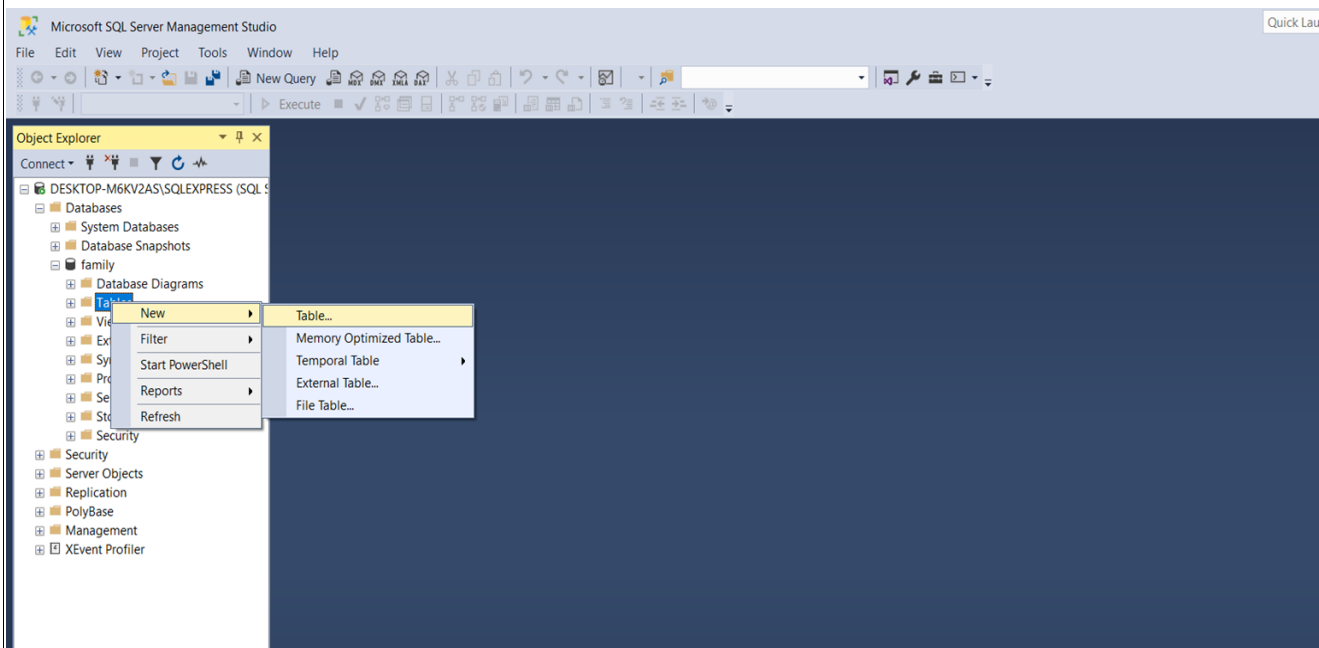
- 1] Open Microsoft SQL Server Management Studio. After opening the Management Studio it will ask to connect to a server. Select a proper server and click connect.



- 2] From object explorer right click on **Databases** and click **New Database**. Give name to Database.



3] Right Click on **Tables** and select **New ->Table**.



- 4] Edit column name and datatypes.
- 5] Save the table and give a name.
- 6] From **Tables** select the table you created. Right click on it and select **Edit top 200 rows**.
- 7] Enter the data into the table and save.

SQLQuery2.sql - DE...QJO\BlackBot (69)) DESKTOP-8F3RQJO\S...mily - dbo.family X DESKTOP-8F3RQJO\S...mily - dbo.family*					
	name	gender	age	relation	dob
	krunal	male	21	son	09/09/1999
	lara	female	20	daughter	10/11/2000
	varsha	female	42	mom	10/10/1982
	harsha	female	45	mom	4/12/1974
	snuffy	male	3	pet	9/8/2017
▶*	NULL	NULL	NULL	NULL	NULL

**CODE:-**

**Family.cs:**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
namespace prac7
{
    public class Family
    {
        public string name { get; set; }
        public string gender { get; set; }
        public string age { get; set; }
        public string relation { get; set; }
        public string dob { get; set; }
    }
}
```

**Webservice.asmx.cs:**

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
```

```
using System.Web.Script.Serialization;
using System.Web.Services;

namespace prac7
{
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    public class WebService1 : System.Web.Services.WebService
    {

        [WebMethod]
        public string JsonData()
        {
            List<Family> objFamilylist = new List<Family>();
            string str = ConfigurationManager.ConnectionStrings["DBContext"].ConnectionString;
            using (SqlConnection con = new SqlConnection(str))
            {
                SqlCommand cmd = new SqlCommand("select * from family", con);
                cmd.Connection = con;
                con.Open();
                SqlDataReader rdr = cmd.ExecuteReader();
                while (rdr.Read())
                {
                    Family family = new Family();
                    family.name = rdr["Name"].ToString();
                    family.gender = rdr["Gender"].ToString();
                    family.age = rdr["Age"].ToString();
                    family.relation = rdr["Relation"].ToString();
                    family.dob = rdr["Dob"].ToString();
                    objFamilylist.Add(family);
                }
                JavaScriptSerializer js = new JavaScriptSerializer(); return js.Serialize(objFamilylist);
            }
        }
    }
}
```

**Web.config:-**

```

<?xml version="1.0" encoding="utf-8"?>
<!--
  For more information on how to configure your ASP.NET application, please visit
  https://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
  <system.web>
    <compilation debug="true" targetFramework="4.7.1"/>
    <httpRuntime targetFramework="4.7.1"/>
  </system.web>
  <connectionStrings>
    <add name="DBContext" providerName="System.Data.SqlClient" connectionString="Data
Source=DESKTOP-8F3RQJO\SQLEXPRESS01;Initial Catalog=family;Integrated Security=True "/>
  </connectionStrings>
  <system.serviceModel>
    <bindings>
      <basicHttpBinding>
        <binding name="WebService1Soap" />
      </basicHttpBinding>
    </bindings>
    <client>
      <endpoint address="http://localhost:58555/WebService1.asmx"
        binding="basicHttpBinding"
        bindingConfiguration="WebService1Soap"
        contract="ServiceReference1.WebService1Soap"
        name="WebService1Soap" />
    </client>
  </system.serviceModel>
</configuration>

```

WebService1 Web Service

localhost:50624/WebService1.asmx

amazon whapp dd GitHub cs AC cshell git js30 q cp sp Other bookmarks

## WebService1

The following operations are supported. For a formal definition, please review the [Service Description](#).

- [JsonData](#)

This web service is using <http://tempuri.org/> as its default namespace.

**Recommendation: Change the default namespace before the XML Web service is made public.**

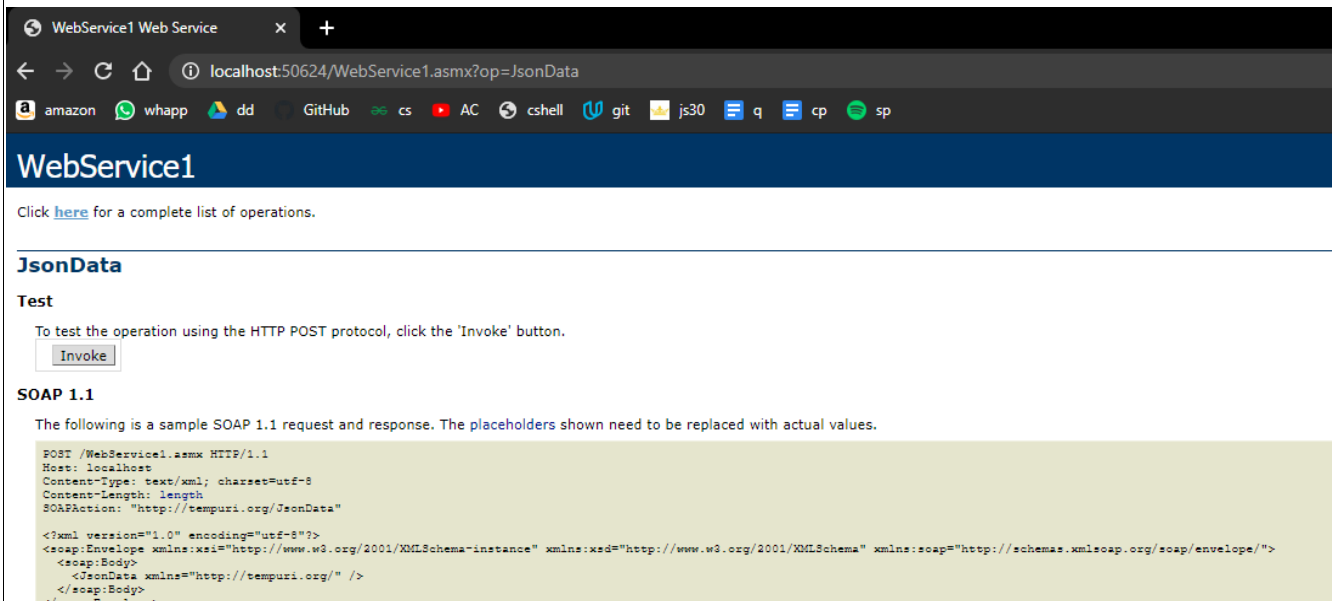
Each XML Web service needs a unique namespace in order for client applications to distinguish it from other services on the Web. <http://tempuri.org/> is available for XML Web services that are under development, but published XML Web services should use a more permanent namespace.

Your XML Web service should be identified by a namespace that you control. For example, you can use your company's Internet domain name as part of the namespace. Although many XML Web service namespaces look like URLs, they need not point to actual resources on the Web. (XML Web service namespaces are URIs.)

For XML Web services creating using ASP.NET, the default namespace can be changed using the WebService attribute's Namespace property. The WebService attribute is an attribute applied to the class that contains the XML Web service methods. Below is a code example that sets the namespace to "http://microsoft.com/webservices/":

```
C#
[WebService(Namespace="http://microsoft.com/webservices/")]
public class MyWebService {
    // implementation
}
```

Visual Basic



Now adding Webform in the same solution explorer .

(adding newtonsoft.json)

Webform1.aspx.cs:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="prac7.WebForm1" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
<div>
<asp:GridView runat="server" ID="GridView"
OnSelectedIndexChanged="GridView_SelectedIndexChanged"></asp:GridView>
</div>
<h3>Performed By krupal, 713</h3>
</form>
</body>
</html>
```

Webform.aspx:

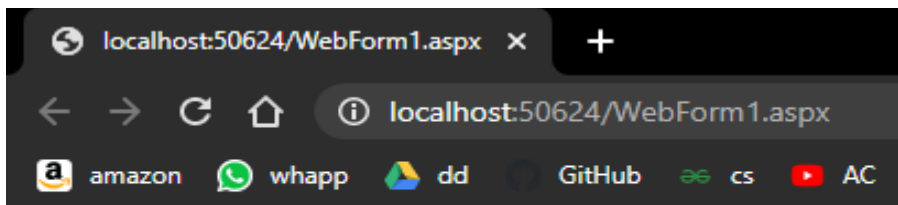
```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="prac7.WebForm1" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
<div>
<asp:GridView runat="server" ID="GridView"
OnSelectedIndexChanged="GridView_SelectedIndexChanged"></asp:GridView>
</div>
<h3>Performed By krunal, 713</h3>
</form>
</body>
</html>

```

Output:-



name	gender	age	relation	dob
krunal	male	21	son	09/09/1999
lara	female	20	daughter	10/11/2000
varsha	female	42	mom	10/10/1982
harsha	female	45	mom	4/12/1974
snuffy	male	3	pet	9/8/2017

**Performed By krunal, 713**