

32-bit Oracle Data Access Components (ODAC) with Oracle Developer Tools for Visual Studio

Oracle Data Access Components (ODAC) for Windows Downloads - SeaMonkey

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32-bit Oracle Data Access Components (ODAC) with Oracle Developer Tools for Visual Studio

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ODAC 12.2c Release 1 and Oracle Developer Tools for Visual Studio (12.2.0.1.0)

Download the File [Released July 6, 2017]

 [ODTwithODAC122010.zip](#) 420 MB (440,495,955 bytes)
[ODAC Installation Instructions](#)


Important: If installing ODAC into an existing Oracle 12c home, review the "Common Install and Setup Issues" section of the ODAC installation instructions.

Download Includes

- Oracle Developer Tools for Visual Studio 12.2.0.1.0
- Oracle Data Provider for .NET 4 12.2.0.1.0
- Oracle Data Provider for .NET 2.0 12.2.0.1.0
- Oracle Providers for ASP.NET 4 12.2.0.1.0
- Oracle Providers for ASP.NET 2.0 12.2.0.1.0
- Oracle Data Provider for .NET Oracle TimesTen In-Memory Database 12.2.0.1.0
- Oracle Provider for OLE DB 12.2.0.1.0
- Oracle Services for Microsoft Transaction Server 12.2.0.1.0
- Oracle ODBC Driver 12.2.0.1.0
- Oracle SQL*Plus 12.2.0.1.0
- Oracle Instant Client 12.2.0.1.0

ODAC 12c Release 4 and Oracle Developer Tools for Visual Studio (12.1.0.2.4)

Download the File [Released October 5, 2015]

 [ODTwithODAC121024.zip](#) 304 MB (319,813,071 bytes)
[ODAC Installation Instructions](#)

Important: If installing ODAC into an existing Oracle 12c home, review the "Common Install and Setup Issues" section of the ODAC installation instructions.

Download Includes

Start

9:08 AM 9/22/2017

WindowsFormsApplication9 - Microsoft Visual Studio

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Debug Any CPU Start

Form1.cs [Design]*

Form1

Data Source Configuration Wizard

Which data source do you want to use to connect to the database? This connection will store sensitive information in the configuration file.

☐ No, I don't want to connect to a database.

☐ Yes, I want to connect to a database.

+ Connection...

Add Connection

Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.

Data source: Oracle Database (ODP.NET, Managed Driver) Change...

Connection Details Filters

Specify the following details to add a new connection.

☐ Use Windows integrated authentication

User name: STUDENT

Password: *****

☒ Save password

☐ Connect as SYSDBA role

Connection Type: EZ Connect

Database host name: localhost

Port number: 1521

Database service name (e.g. ORCL): XE

Data source name: localhost:1521/XE

Connection name: STUDENT.XE

Advanced...

Test Connection OK Cancel

Microsoft Visual Studio

Test connection succeeded.

OK

view1 System.Windows.Forms.DataGridView

propertyName	value
AllowUserToDeleteRows	True
AllowUserToOrderColumns	False
AllowUserToResizeColumns	True
AllowUserToResizeRows	True
AlternatingRowsDefaultCellStyle	DataGridViewCellStyle { }
Anchor	Top, Left
AutoSizeColumnsMode	None
AutoSizeRowsMode	None

(ApplicationSettings)

Maps property settings to an application configuration file.

Error List

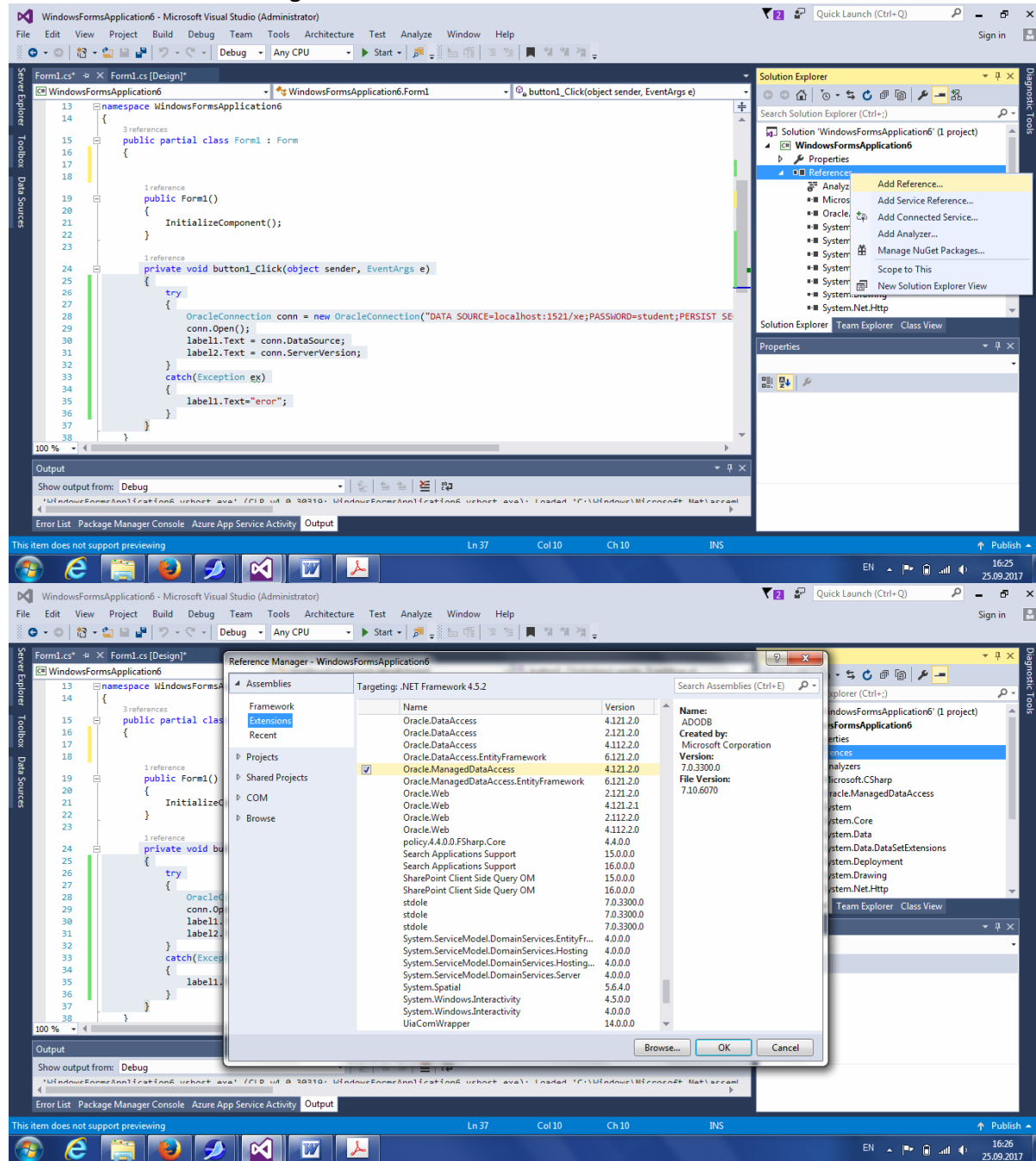
Entire Solution 0 Errors 0 Warnings

Azure App Service Activity Error List Output

197, 75 240 x 150

9:17 AM 9/22/2017

Conexiune - Oracle.ManagedDataAccess.Client



....

```

using Oracle.ManagedDataAccess.Client;
....
public partial class Form1 : Form
{
    OracleConnection conn;
    OracleCommand cmd;
    string str;
    OracleParameter p1, p2, p3;
....

private void button1_Click(object sender, EventArgs e)
{
    try
    {
        conn = new OracleConnection("DATA SOURCE=localhost:1521/xepdb1;PASSWORD=student;PERSIST SECURITY INFO=True;USER
ID=STUDENT");
        conn.Open();
        label1.Text = conn.DataSource;
        label2.Text = conn.ServerVersion;
        conn.Close();
    }
    catch(Exception ex)
    {
        label1.Text="error";
    }
}

private void button2_Click(object sender, EventArgs e)
{
    conn = new OracleConnection("DATA SOURCE=localhost:1521/xepdb1;PASSWORD=student100;PERSIST SECURITY INFO=True;USER ID=STUDENT");
    conn.Open();
    str = "Insert into test values(102, 'ddd',1000)";
    cmd = new OracleCommand(str, conn);
    cmd.ExecuteNonQuery();
    label1.Text = "ok";
}

//Adaugare parametrizata
private void button3_Click(object sender, EventArgs e)
{
    try
    {
        conn = new OracleConnection("DATA SOURCE=localhost:1521/xepdb1;PASSWORD=student100;PERSIST SECURITY INFO=True;USER ID=STUDENT");
        conn.Open();
        p1 = new OracleParameter();

```

```

    p2 = new OracleParameter();
    p3 = new OracleParameter();

    p1.Value = textBox1.Text;
    p2.Value = textBox2.Text;
    p3.Value = textBox3.Text;
    str = "insert into test values(:1,:2,:3)";
    cmd = new OracleCommand(str, conn);
    cmd.Parameters.Add(p1);
    cmd.Parameters.Add(p2);
    cmd.Parameters.Add(p3);
    cmd.ExecuteNonQuery();
    conn.Close();
    MessageBox.Show("ok- adaugat");
}
catch (Exception ex)
{
    label1.Text = "error " + ex.ToString();
}
}

```

II. WEB (asp.net):

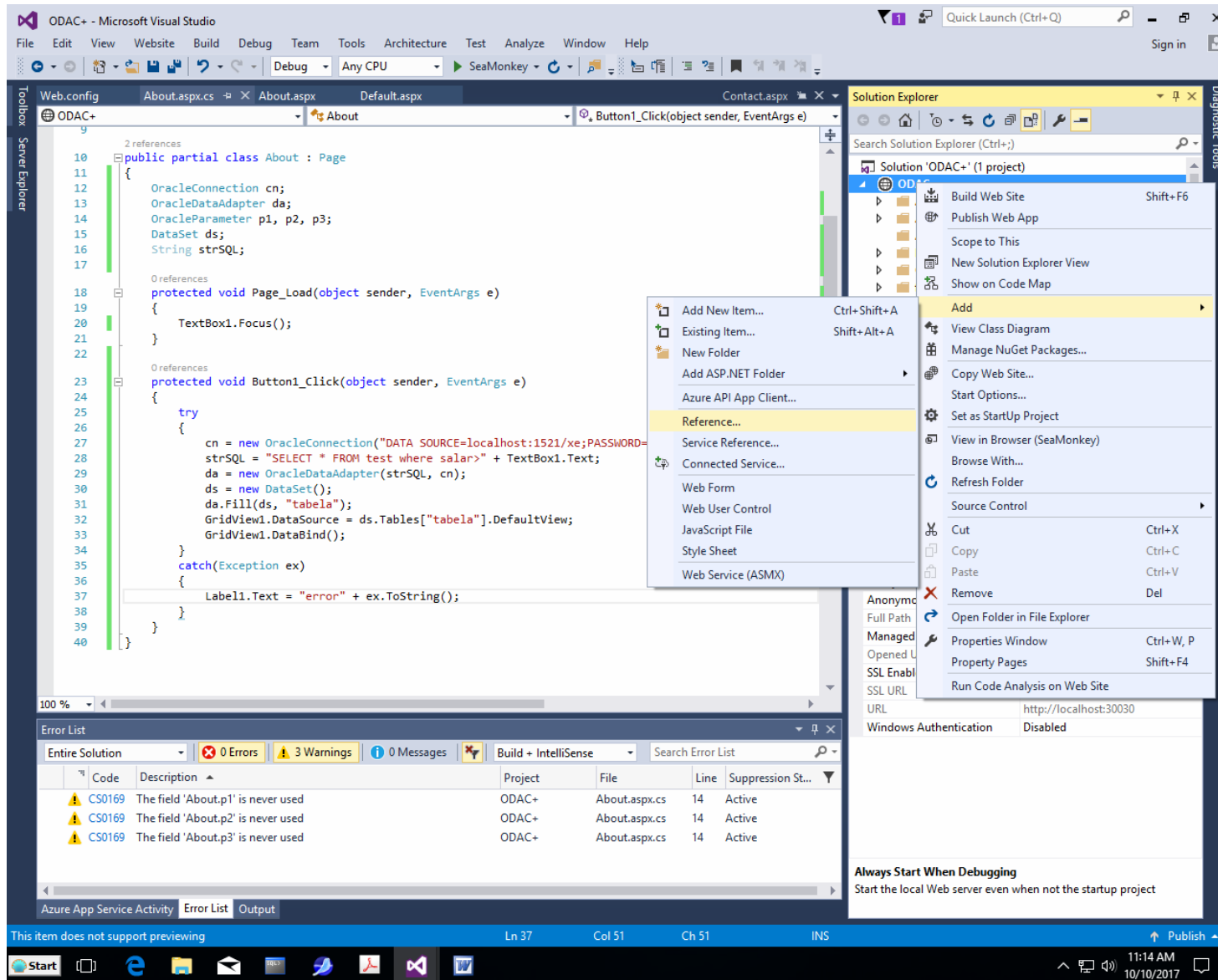


Fig. 1 Add Reference

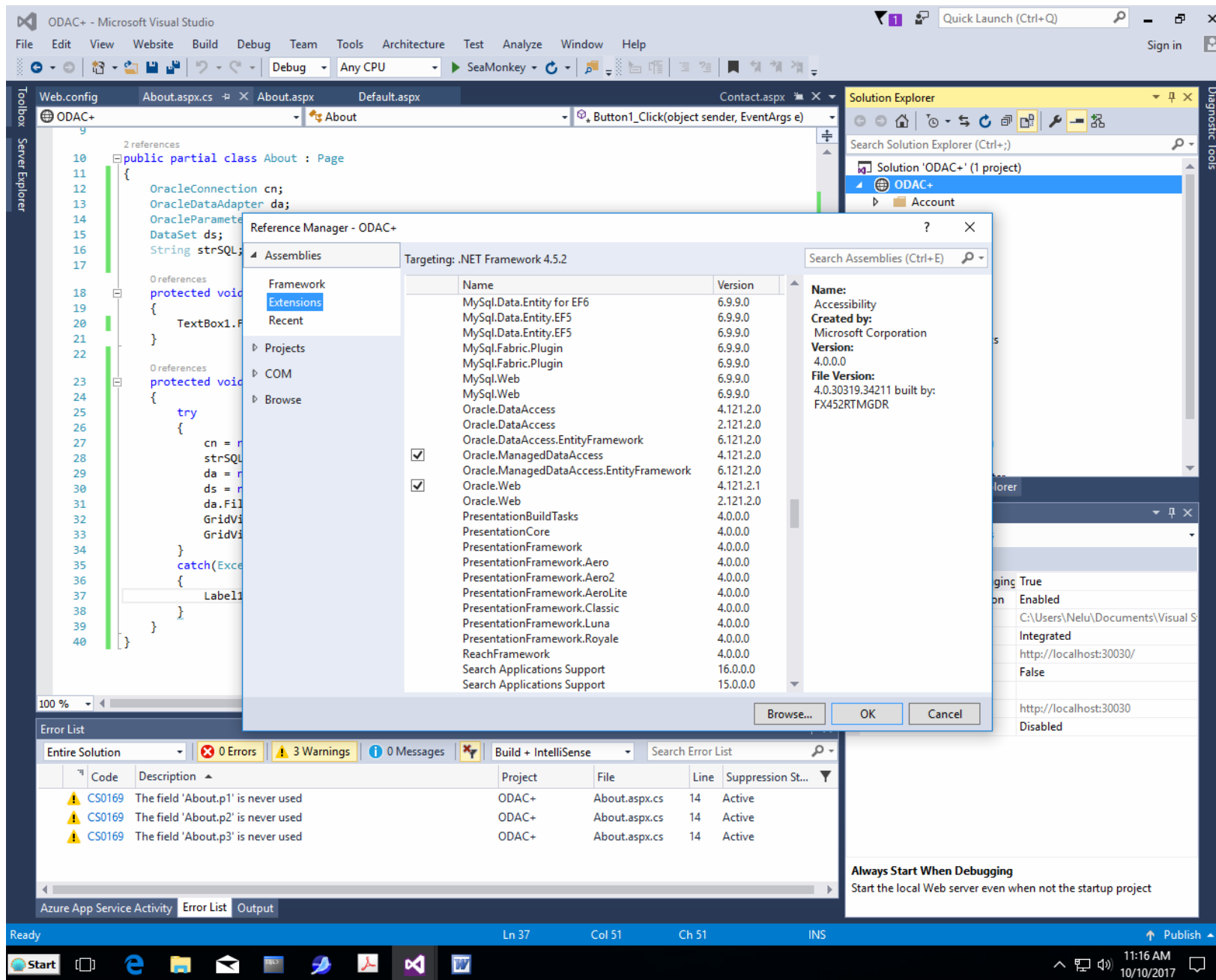


Fig. 2 Versiuni 4.121....

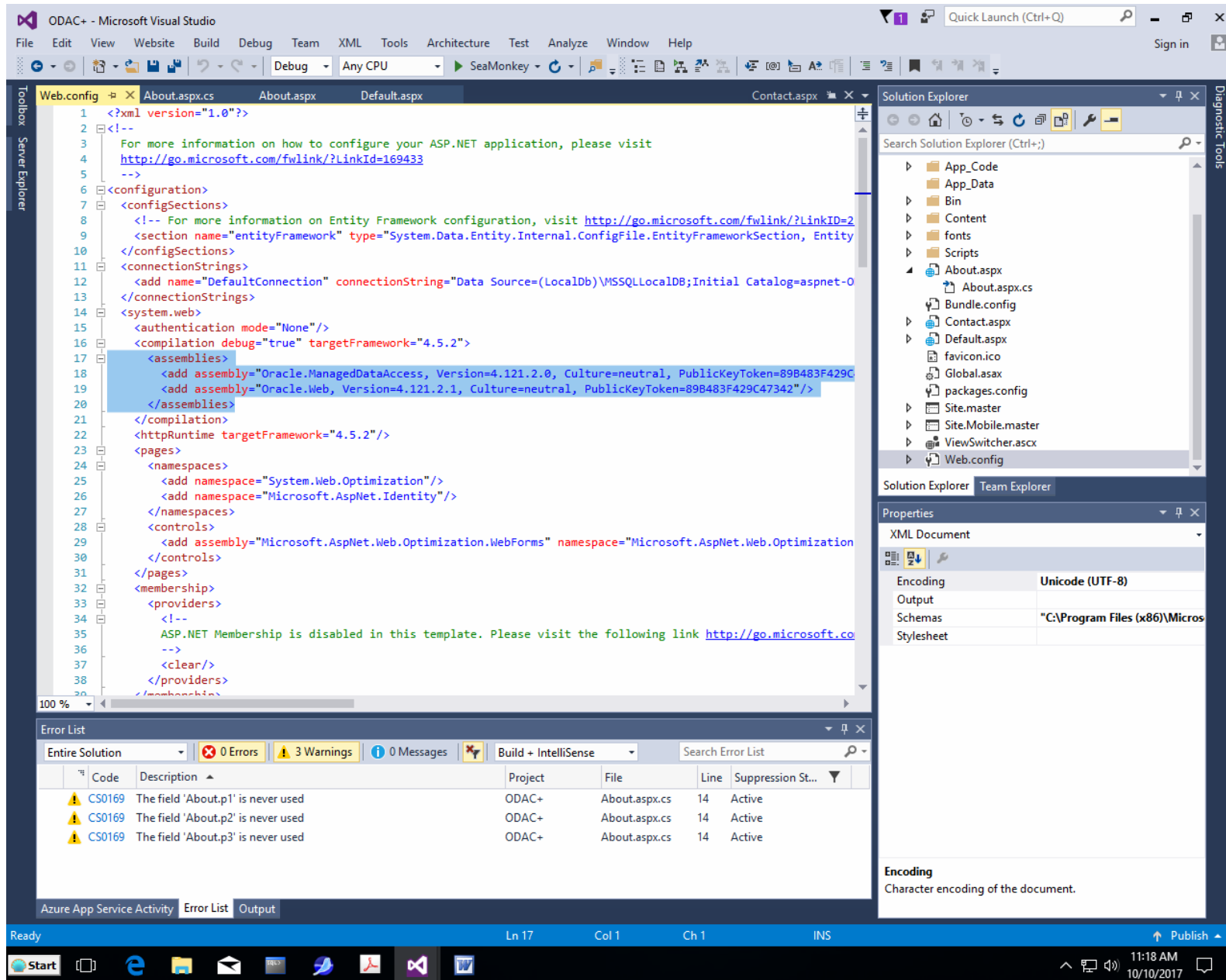


Fig. 3 Web.config

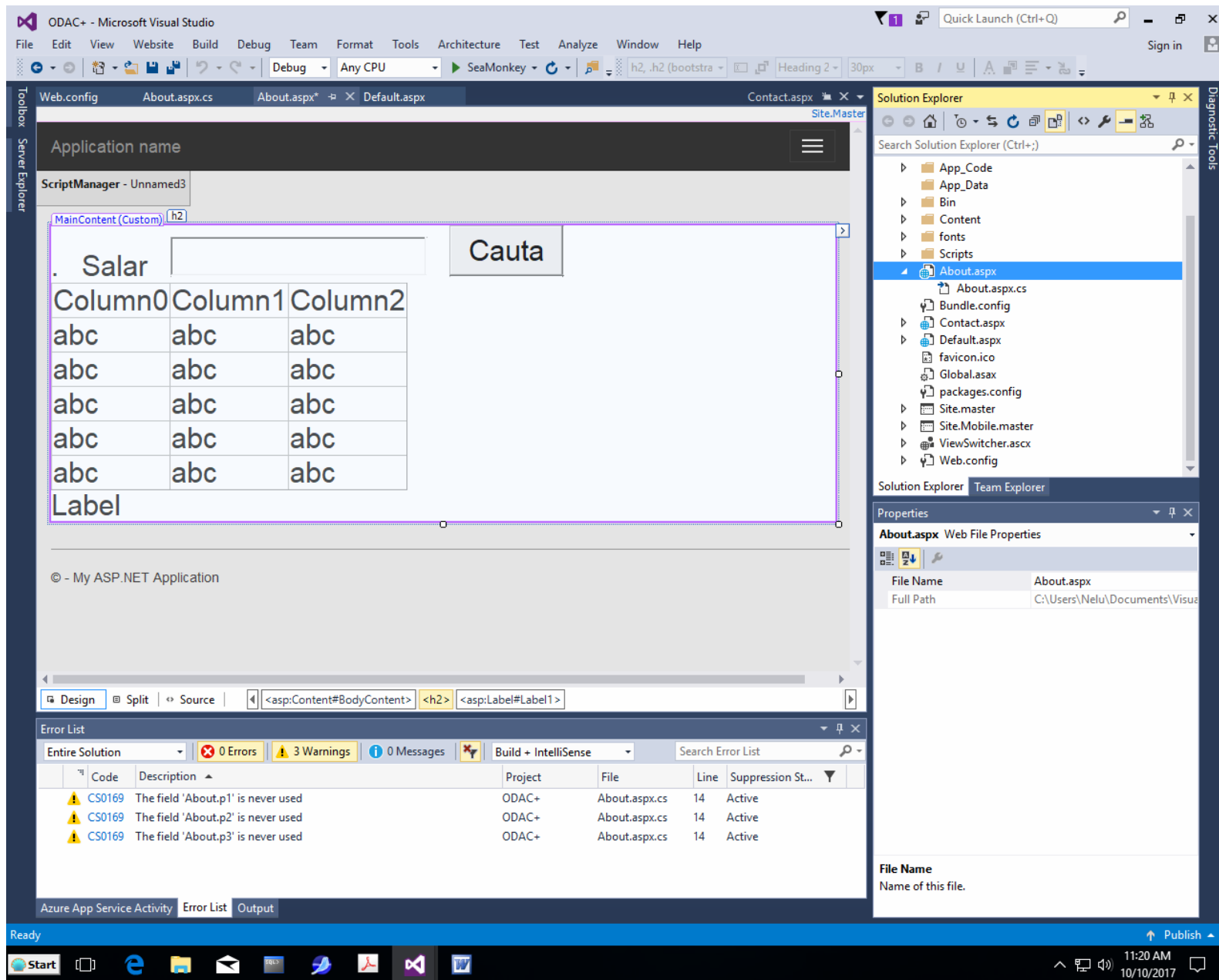


Fig. 4 Fisier About.aspx : 1 Button, 1 TextBox, 1 GridView, 2 Label

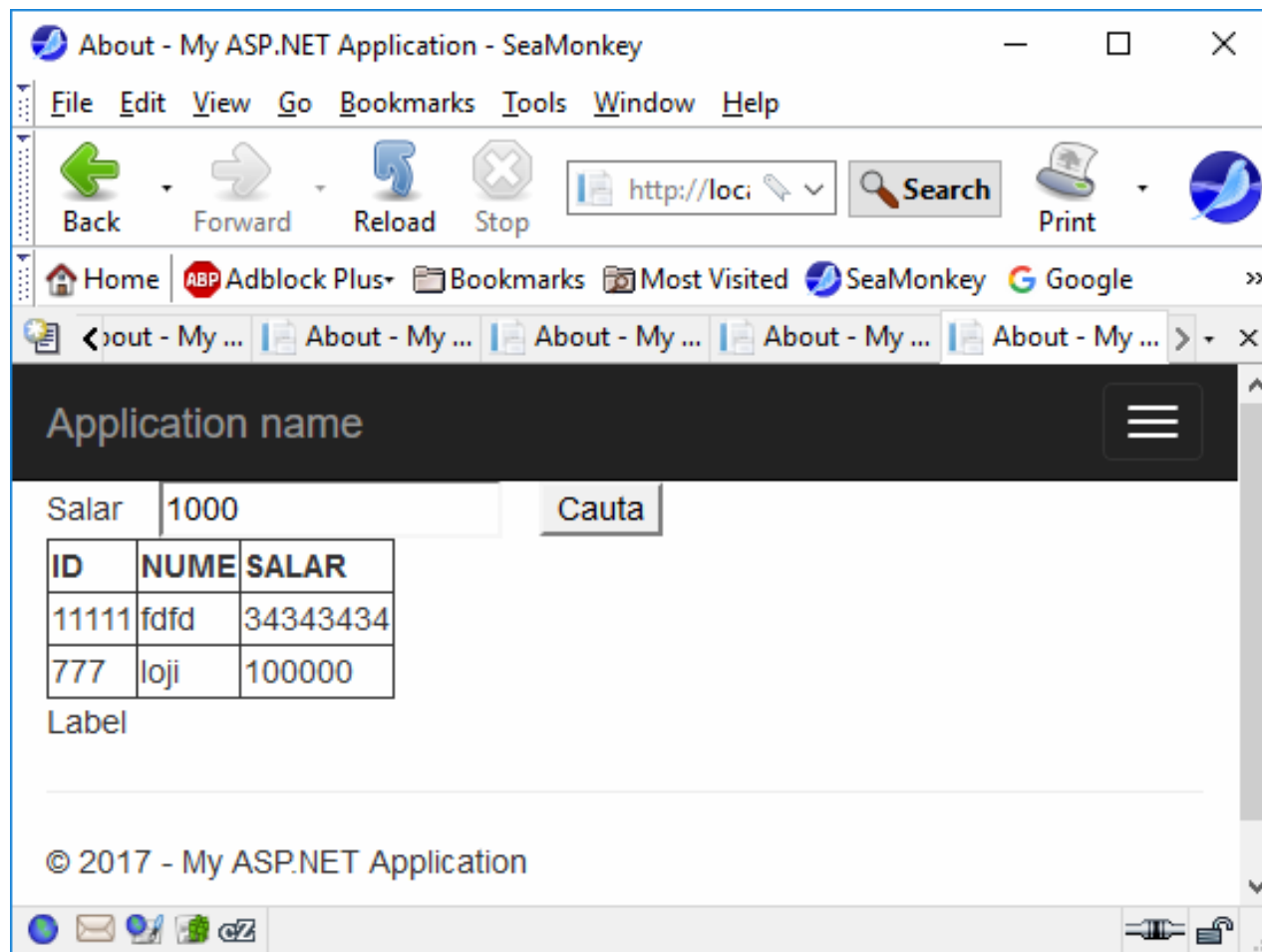
Fisier About.aspx.cs :

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using Oracle.ManagedDataAccess.Client;

public partial class About : Page
{
    OracleConnection cn;
    OracleDataAdapter da;
    OracleParameter p1, p2, p3;
    DataSet ds;
    String strSQL;

    protected void Page_Load(object sender, EventArgs e)
    {
        TextBox1.Focus();
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        try
        {
            cn = new OracleConnection("DATA SOURCE=localhost:1521/xe;PASSWORD=student100;PERSIST SECURITY INFO=True;USER ID = STUDENT");
            strSQL = "SELECT * FROM test where salar>" + TextBox1.Text;
            da = new OracleDataAdapter(strSQL, cn);
            ds = new DataSet();
            da.Fill(ds, "tabela");
            GridView1.DataSource = ds.Tables["tabela"].DefaultView;
            GridView1.DataBind();
        }
        catch(Exception ex)
        {
            Label1.Text = "error" + ex.ToString();
        }
    }
}
```



a) ODAC- Doar pentru UPDATE (cautare si modificare)! (- Use optimistic concurrency (nesetat)!

Generat:

```
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%"$ ConnectionStrings:ConnectionString2
%">" DeleteCommand="DELETE FROM &quot;TEST&quot; WHERE &quot;ID&quot; = ?" InsertCommand="INSERT INTO
&quot;TEST&quot; (&quot;ID&quot;, &quot;NUME&quot;, &quot;SALAR&quot;) VALUES (?, ?, ?)" ProviderName="<%"$
ConnectionStrings:ConnectionString2.ProviderName %">" SelectCommand="SELECT * FROM &quot;TEST&quot; WHERE
(&quot;ID&quot; &gt; ?)" UpdateCommand="UPDATE &quot;TEST&quot; SET &quot;NUME&quot; = ?, &quot;SALAR&quot; = ?
WHERE &quot;ID&quot; = ?">
    <DeleteParameters>
        <asp:Parameter Name="ID" Type="Decimal" />
    </DeleteParameters>
    <InsertParameters>
        <asp:Parameter Name="ID" Type="Decimal" />
        <asp:Parameter Name="NUME" Type="String" />
        <asp:Parameter Name="SALAR" Type="Decimal" />
    </InsertParameters>
    <SelectParameters>
        <asp:ControlParameter ControlID="TextBox1" DefaultValue="0" Name="ID" PropertyName="Text" Type="Decimal" />
    </SelectParameters>
    <UpdateParameters>
        <asp:Parameter Name="NUME" Type="String" />
        <asp:Parameter Name="SALAR" Type="Decimal" />
        <asp:Parameter Name="ID" Type="Decimal" />
    </UpdateParameters>
</asp:SqlDataSource>
```

- Codul pe fundal galben se poate sterge!

De modificat in fisier .aspx:

```
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%"$ ConnectionStrings:ConnectionString
%">" ProviderName="<%"$ ConnectionStrings:ConnectionString.ProviderName %">" SelectCommand="SELECT * FROM
&quot;TEST&quot; WHERE (&quot;ID&quot; &gt; :ID1)" UpdateCommand="UPDATE &quot;TEST&quot; SET &quot;NUME&quot;
= :NUME, &quot;SALAR&quot; = :SALAR WHERE &quot;ID&quot; = :ID">
    <SelectParameters>
        <asp:ControlParameter ControlID="TextBox1" DefaultValue="0" Name="ID1" PropertyName="Text" Type="Decimal" />
    </SelectParameters>
    <UpdateParameters>
        <asp:Parameter Name="NUME" Type="String" />
```

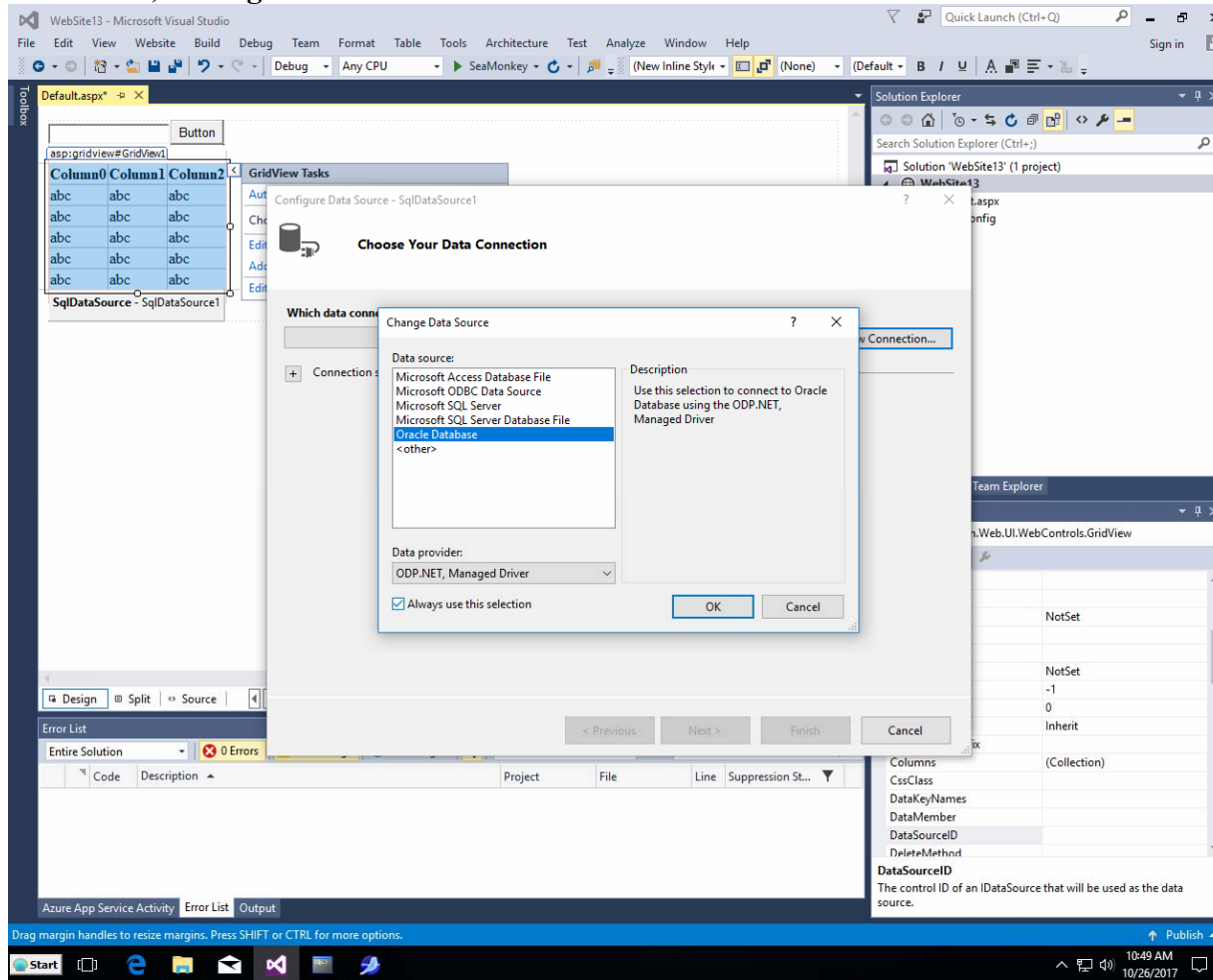
```

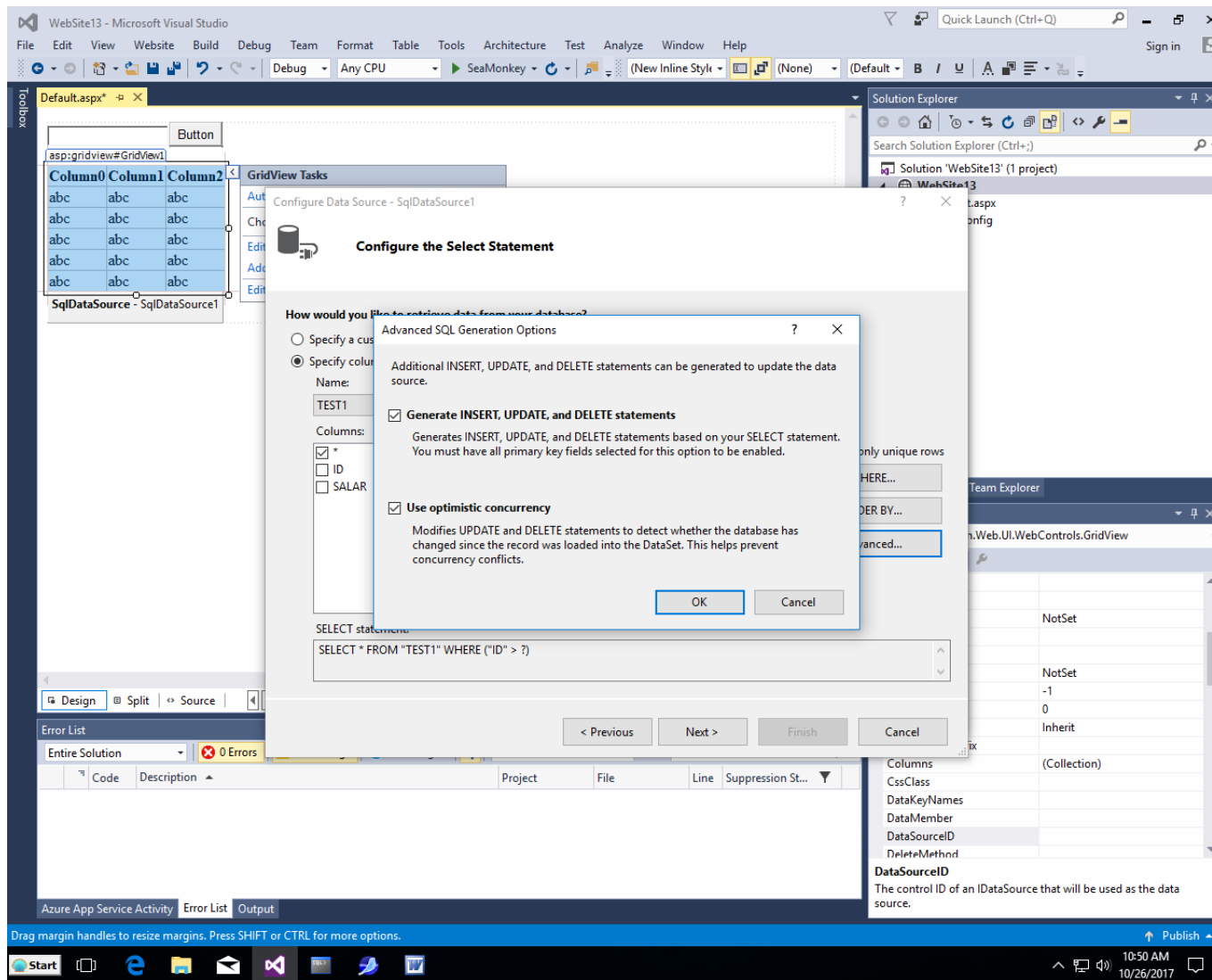
<asp:Parameter Name="SALAR" Type="Decimal" />
<asp:Parameter Name="ID" Type="Decimal" />
</UpdateParameters>
</asp:SqlDataSource>

```

b) Doar pentru DELETE (cautare si stergere):

- ODP.Net, Managed Driver





- Use optimistic concurrency (setat)!

Codul Generat:

```
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConflictDetection="CompareAllValues" ConnectionString="<%$
ConnectionStrings:ConnectionString %>"
DeleteCommand="DELETE FROM &quot;TEST1&quot; WHERE &quot;ID&quot; = ? AND ((&quot;SALAR&quot; = ?) OR (&quot;SALAR&quot; IS NULL AND ? IS
NULL))"
InsertCommand="INSERT INTO &quot;TEST1&quot; (&quot;ID&quot;, &quot;SALAR&quot;) VALUES (?, ?)"
OldValuesParameterFormatString="original_{0}" ProviderName="<%$ ConnectionStrings:ConnectionString.ProviderName %>"
SelectCommand="SELECT * FROM &quot;TEST1&quot; WHERE (&quot;ID&quot; > ?)"
UpdateCommand="UPDATE &quot;TEST1&quot; SET &quot;SALAR&quot; = ? WHERE &quot;ID&quot; = ? AND ((&quot;SALAR&quot; = ?) OR
(&quot;SALAR&quot; IS NULL AND ? IS NULL))">
    <DeleteParameters>
        <asp:Parameter Name="original_ID" Type="Decimal" />
        <asp:Parameter Name="original_SALAR" Type="Decimal" />
        <asp:Parameter Name="original_SALAR" Type="Decimal" />
    </DeleteParameters>
    <InsertParameters>
        <asp:Parameter Name="ID" Type="Decimal" />
        <asp:Parameter Name="SALAR" Type="Decimal" />
    </InsertParameters>
    <SelectParameters>
        <asp:ControlParameter ControlID="TextBox1" DefaultValue="0" Name="ID" PropertyName="Text" Type="Decimal" />
    </SelectParameters>
    <UpdateParameters>
        <asp:Parameter Name="SALAR" Type="Decimal" />
        <asp:Parameter Name="original_ID" Type="Decimal" />
        <asp:Parameter Name="original_SALAR" Type="Decimal" />
        <asp:Parameter Name="original_SALAR" Type="Decimal" />
    </UpdateParameters>
</asp:SqlDataSource>
```

- Codul pe fundal galben se poate sterge!

Codul adaptat:

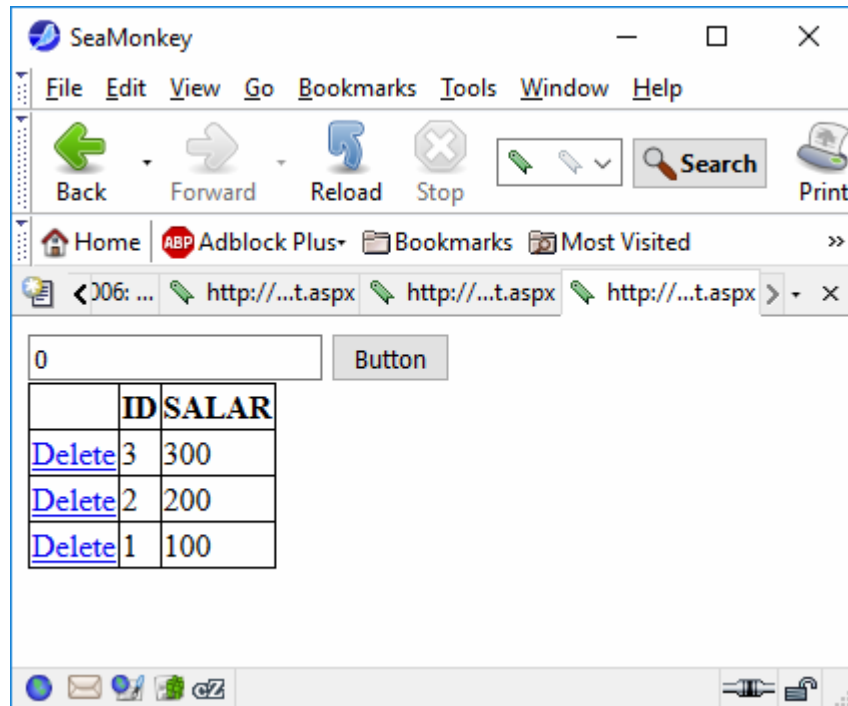
```
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConflictDetection="CompareAllValues" ConnectionString="<%$
ConnectionStrings:ConnectionString %>"

DeleteCommand="DELETE FROM &quot;TEST1&quot; WHERE &quot;ID&quot; = :original_ID AND ((&quot;SALAR&quot; = :original_SALAR) OR
(&quot;SALAR&quot; IS NULL AND :original_SALAR IS NULL))"

DeleteCommand="DELETE FROM &quot;TEST1&quot; WHERE &quot;ID&quot; = ? AND ((&quot;SALAR&quot; = ?) OR (&quot;SALAR&quot; IS NULL AND ? IS
NULL))"

SelectCommand="SELECT * FROM &quot;TEST1&quot; WHERE (&quot;ID&quot; > :ID1)"

    <DeleteParameters>
        <asp:Parameter Name="original_ID" Type="Decimal" />
        <asp:Parameter Name="original_SALAR" Type="Decimal" />
        <asp:Parameter Name="original_SALAR" Type="Decimal" />
    </DeleteParameters>
    <SelectParameters>
        <asp:ControlParameter ControlID="TextBox1" DefaultValue="0" Name="ID1" PropertyName="Text" Type="Decimal" />
    </SelectParameters>
</asp:SqlDataSource>
```



Probleme Controale de validare date (RequiredFieldValidator. . .):

Eroare: /WebForms UnobtrusiveValidationMode requires a ScriptResourceMapping for 'jquery'. Please add a ScriptResourceMapping named jquery(case-sensitive)./

Solutie (in Web.config) – se adauga linia:

```
<configuration>
```

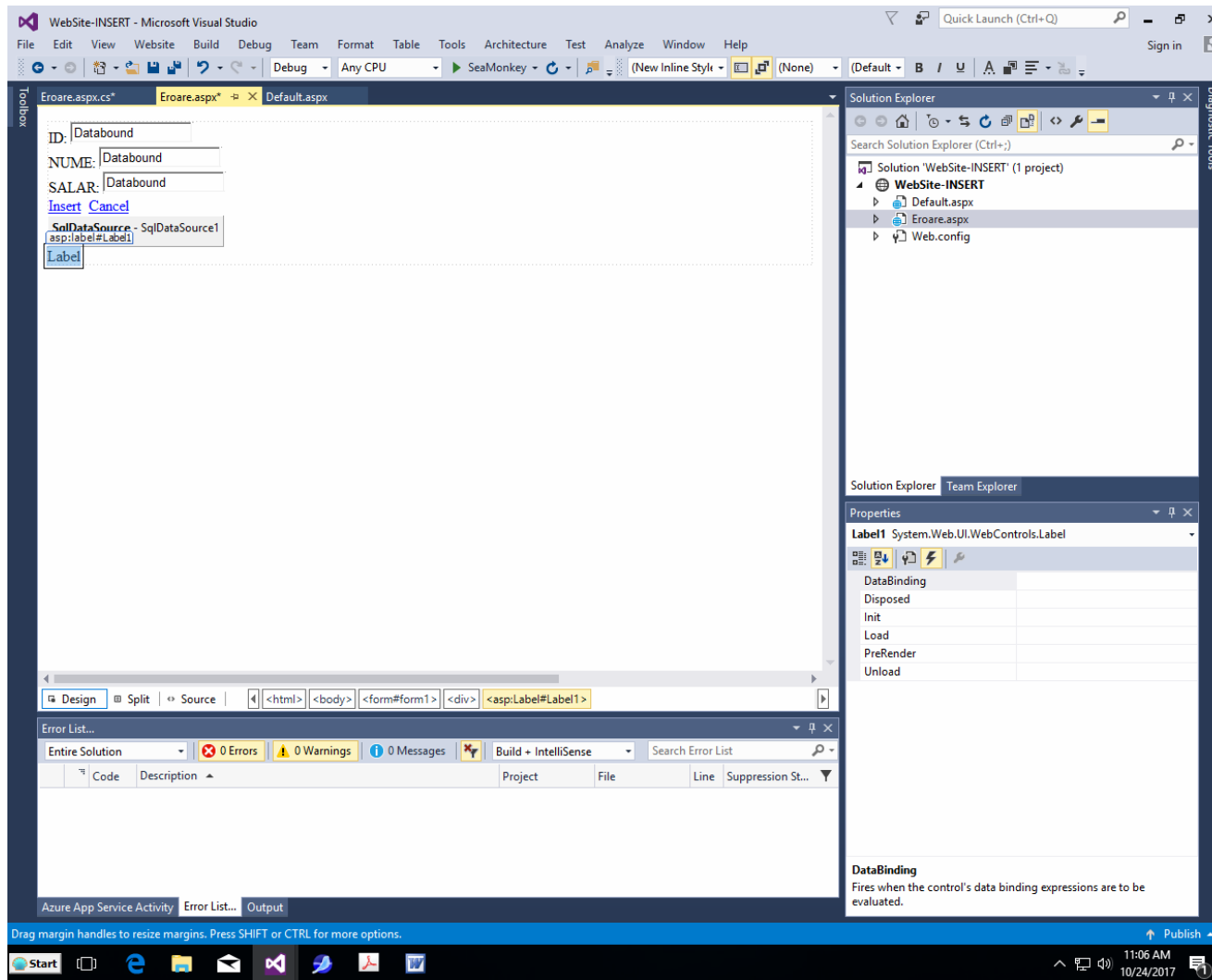
```
...
```

```
<appSettings><add key="ValidationSettings:UnobtrusiveValidationMode" value="None"/></appSettings>
```

```
...
```

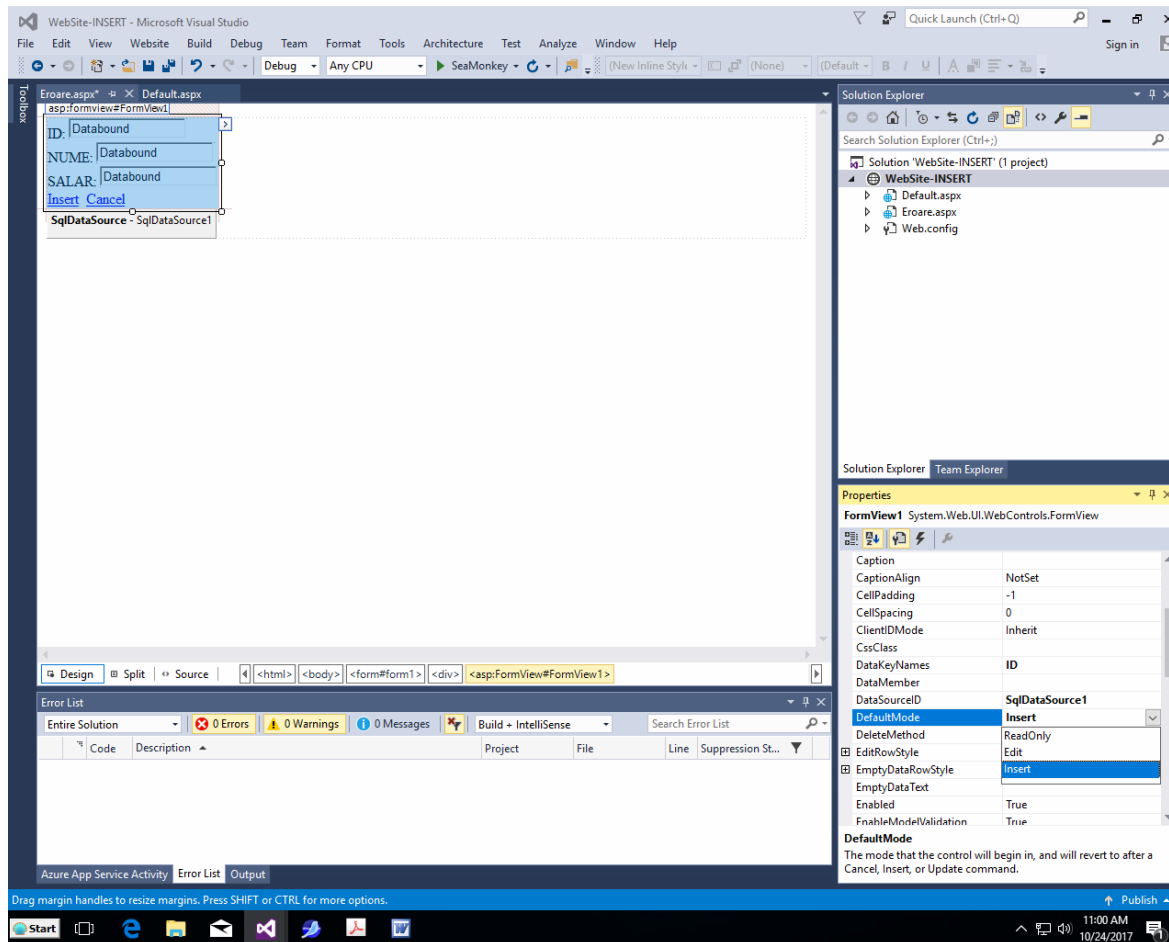
Web: ADAUGARE in mod DESIGN utilizand controlul FormView:

1) FormView



- 2 fisiere aspx (Default si Eroare)
- Drag and drop control FormView + un Label in Default.aspx

2) INSERT



- Proprietatea DefaultMode= Insert (la controlul FormView)

3) Corectie:

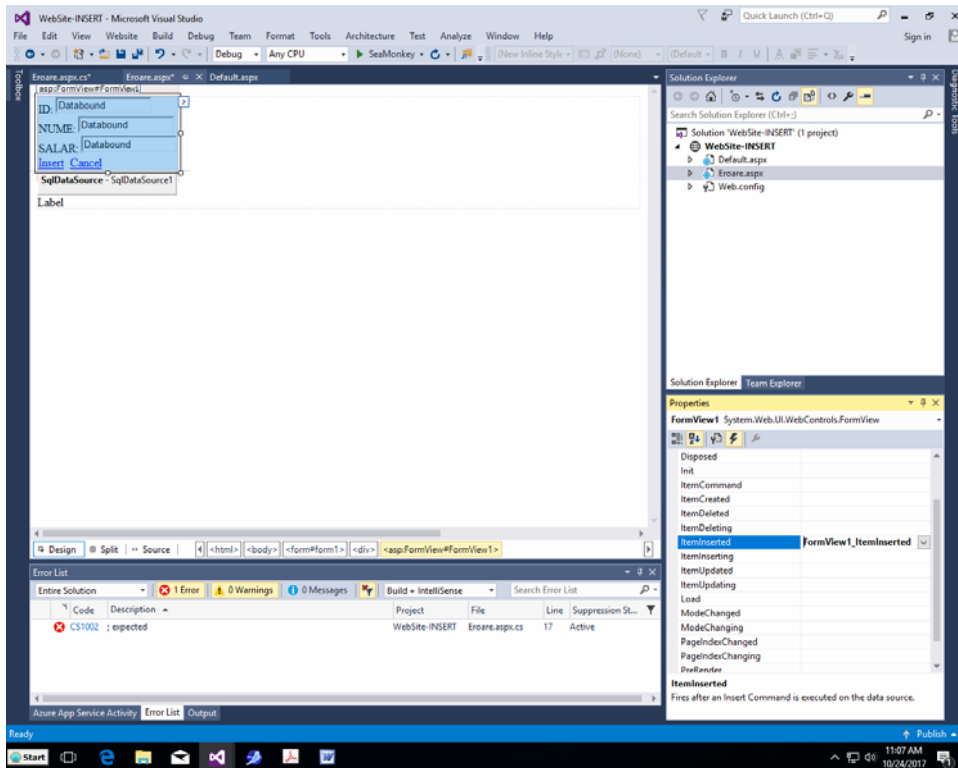
Server Error in '/' Application.

ORA-00911: invalid character

- in sursa fisier inlocuire parametrizare ? cu :NUME_PARAM pentru comanda INSERT

```
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$ ConnectionStrings:ConnectionString %>" DeleteCommand="DELETE
FROM &quot;TEST&quot;; WHERE &quot;ID&quot;; = ?" InsertCommand="INSERT INTO &quot;TEST&quot;; (&quot;ID&quot;;, &quot;NUME&quot;;,
&quot;SALAR&quot;;) VALUES (:ID, :NUME, :SALAR)" ProviderName="<%$ ConnectionStrings:ConnectionString.ProviderName %>" SelectCommand="SELECT
* FROM &quot;TEST&quot;;" UpdateCommand="UPDATE &quot;TEST&quot;; SET &quot;NUME&quot;; = ?, &quot;SALAR&quot;; = ? WHERE &quot;ID&quot;; = ?">
<DeleteParameters>
```

4) Mesaj confirmare adaugare:



Mesaj confirmare prin utilizare eveniment **ItemInserted** :

```
protected void FormView1_ItemInserted(object sender, FormViewInsertedEventArgs e)
{
    Label1.Text="Adaugat!";
}
```

5) Tratare eroare (utilizand pagina Eroare.aspx)

In fisier config.web:

```
<configuration>
```

```
    <connectionStrings>
        <add name="ConnectionString" connectionString="DATA SOURCE=localhost:1521/xe;PASSWORD=student100;PERSIST SECURITY INFO=True;USER
ID=STUDENT"
            providerName="Oracle.DataAccess.Client" />
    </connectionStrings>
    <system.web>
        <compilation debug="true" targetFramework="4.5.2" />
        <httpRuntime targetFramework="4.5.2" />
        <customErrors mode="On" defaultRedirect="Eroare.aspx">
            <error statusCode="404" redirect="Eroare.aspx"></error>
        </customErrors>
    </system.web>
```

```
</configuration>
```

6) Rezultat:

