

## Aplicatie BindingSource – DataRelation

```
create database DBSolisti
go
use DBSolisti
go

create table CasaDiscuri(
codCD int primary key identity(1,1),
Nume varchar(50)
)

drop table Solist

create table Solist(
CodS int primary key identity(1,1),
Nume varchar(50),
Varsta int,
codCD int foreign key references CasaDiscuri(codCD)
)

select * from CasaDiscuri
select * from Solist

insert into CasaDiscuri values ('casa 1'), ('casa 2')
insert into Solist values ('bon jovi', 54,1), ('guns un roses', 45, 2)
```

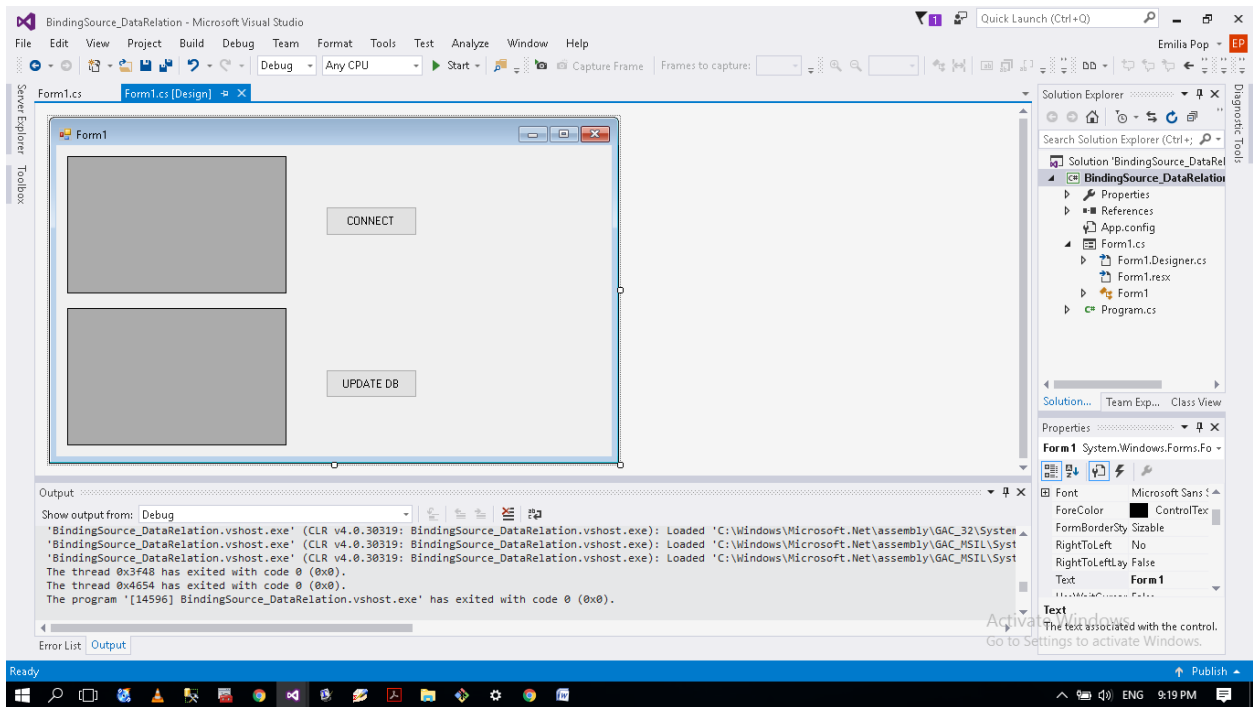
The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Results' pane shows two query results. The first query, 'select \* from CasaDiscuri', returns two rows: (1, 'casa 1') and (2, 'casa 2'). The second query, 'select \* from Solist', returns two rows: (1, 'bon jovi', 54, 1) and (2, 'guns un roses', 45, 2). A green status bar at the bottom indicates 'Query executed successfully.' On the right, the 'Database Diagram' pane shows a diagram with two tables: 'CasaDiscuri' and 'Solist'. 'CasaDiscuri' has a primary key 'codCD' and a field 'Nume'. 'Solist' has primary keys 'CodS' and 'codCD', and fields 'Nume' and 'Varsta'. A foreign key relationship is shown between 'codCD' in 'Solist' and 'codCD' in 'CasaDiscuri'.

codCD	Nume
1	casa 1
2	casa 2

CodS	Nume	Varsta	codCD
1	bon jovi	54	1
2	guns un roses	45	2

## WINDOWS FORMS APPLICATION



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace BindingSource_DataRelation
{
    public partial class Form1 : Form
    {
        SqlConnection connection;
        SqlDataAdapter daArtist, daCS;
        DataSet ds;
        SqlCommandBuilder cb;
        BindingSource bsArtist, bsCS;
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            daArtist.Update(ds, "Solist");
        }

        private void GridArtist_CellContentClick(object sender, DataGridViewCellEventArgs
e)
        {

```

```

    }

    private void button2_Click(object sender, EventArgs e)
    {
        connection = new SqlConnection(@"Data Source = DESKTOP-ATJN5FL\SQLEXPRESS;
Initial Catalog=DBSolisti; Integrated Security = True");
        ds = new DataSet();
        daArtist = new SqlDataAdapter("select * from Solist", connection);
        daCS = new SqlDataAdapter("select * from CasaDiscuri", connection);
        cb = new SqlCommandBuilder(daArtist);

        daArtist.Fill(ds, "Solist");
        daCS.Fill(ds, "CasaDiscuri");

        DataRelation dr = new DataRelation("FK_CasaDiscuri_Artist",
ds.Tables["CasaDiscuri"].Columns["codCD"], ds.Tables["Solist"].Columns["codCD"]);
        ds.Relations.Add(dr);

        bsArtist = new BindingSource();
        bsCS = new BindingSource();

        bsCS.DataSource = ds;
        bsCS.DataMember = "CasaDiscuri";

        bsArtist.DataSource = bsCS;
        bsArtist.DataMember = "FK_CasaDiscuri_Artist";

        GridArtist.DataSource = bsArtist;
        GridCasaDiscuri.DataSource = bsCS;
    }

    private void GridCasaDiscuri_CellContentClick(object sender,
DataGridViewCellEventArgs e)
    {
    }
}

```

Form1

	codCD	Nume
▶	1	casa 1
	2	casa 2
*		

CONNECT

	CodS	Nume
▶	1	bon jovi
	4	ana
	6	george
*		

UPDATE DB

Form1

	codCD	Nume
	1	casa 1
▶	2	casa 2
*		

CONNECT

	e	Varsta	cod
	un roses	45	2
		34	2
		23	2
✎		45	2
*			

UPDATE DB

Form1

	codCD	Nume
	1	casa 1
▶	2	casa 2
*		

CONNECT

	CodS	Nume
▶	2	guns un roses
	3	test
	5	test3
	6	test5
*		

UPDATE DB