

BindingSource Application – with DataRelation

```
create database Music_DB
go
use Music_DB
go

create table RecordCompany(
RCid int primary key identity(1,1),
Name varchar(50)
)

create table Singer(
Sid int primary key identity(1,1),
Name varchar(50),
Age int,
RCid int foreign key references RecordCompany(RCid)
)

select * from RecordCompany
select * from Singer

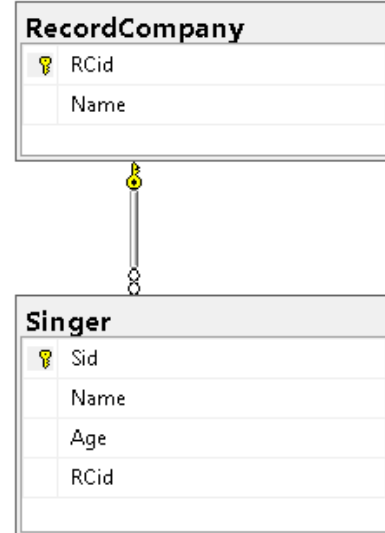
insert into RecordCompany
values ('Record Company 1'), ('Record Company 2')

insert into Singer
values ('bon jovi', 56, 1), ('guns n roses', 45, 2)

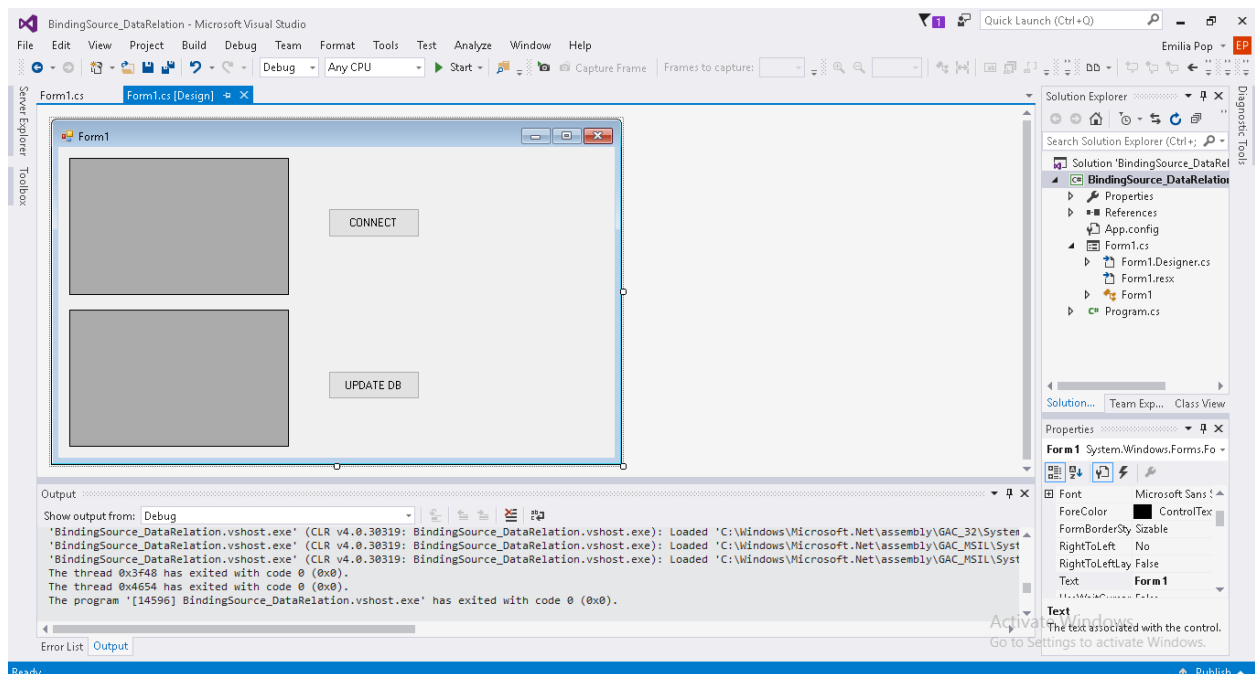
select * from RecordCompany
select * from Singer
```

	RCid	Name
1	1	Record Company 1
2	2	Record Company 2

	Sid	Name	Age	RCid
1	1	bon jovi	56	1
2	2	guns n roses	45	2



WINDOWS FORMS APPLICATION / WINDOWS FORMS APP(.NET FRAMEWORK)



```

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 daSinger, daRecordCompany;
        DataSet ds;
        SqlCommandBuilder cb;
        BindingSource bsSinger, bsRecordCompany;
        public Form1()
        {
            InitializeComponent();

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

            private void button2_Click(object sender, EventArgs e)
            {
                connection = new SqlConnection(@"Data Source = DESKTOP-ATJN5FL\SQLEXPRESS;
Initial Catalog=Music_DB; Integrated Security = True");
                ds = new DataSet();
                daSinger = new SqlDataAdapter("select * from Singer", connection);
                daRecordCompany = new SqlDataAdapter("select * from RecordCompany",
connection);
                cb = new SqlCommandBuilder(daSinger);

                daSinger.Fill(ds, "Singer");
                daRecordCompany.Fill(ds, "RecordCompany");

                DataRelation dr = new DataRelation("FK_RecordCompany_Singer",
ds.Tables["RecordCompany"].Columns["RCid"], ds.Tables["Singer"].Columns["RCid"]);
                ds.Relations.Add(dr);

                bsSinger = new BindingSource();
                bsRecordCompany = new BindingSource();

                bsRecordCompany.DataSource = ds;
                bsRecordCompany.DataMember = "RecordCompany";

                bsSinger.DataSource = bsRecordCompany;
                bsSinger.DataMember = "FK_RecordCompany_Singer";
            }
        }
    }
}

```

```

GridSinger.DataSource = bsSinger;
GridRecordCompany.DataSource = bsRecordCompany;
}

}
}

```

Form1

	RCid	Name
▶	1	Record Company 1
▶	2	Record Company 2
*		

CONNECT

	Sid	Name	Age	RCid
▶	2	guns n roses	45	2
	3	metallica	50	2
*				

UPDATE DB

Form1

	RCid	Name
▶	1	Record Company 1
	2	Record Company 2
*		

CONNECT

	Sid	Name	Age	RCid
	1	bon jovi	56	1
✎		Enrique Iglesias	40	1
*				

UPDATE DB

Form1

	RCid	Name
▶	1	Record Company 1
	2	Record Company 2
*		

CONNECT

	Sid	Name	Age	RCid
	1	bon jovi	56	1
▶	5	enrique iglesias	40	1
*				

UPDATE DB