



: C# ( )

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: DB-LAB

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## 8-2. DataSet

; DataSet Delete() ,  
 Rejectchanges(), AcceptChanges() .

```
// connection
ADOConnection myConnection = new ADOConnection();
myConnection.ConnectionString="Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=d:\\c#\\consoleSample\\sql\\board.mdb;Persist Security Info=False";
// datasetCommand
ADODatasetCommnad dsc= new ADODatasetCommand(new ADOCommand("select * from
adotest",myConnection));
// dataset
DataSet ds = new DataSet();
//          dsadotest   가
dsc.FillDataSet(ds,"dsadotest");

ds.Tables["dsadotest"].Rows[i].Delete();
ds.Tables["dsadotest"].AcceptChanges();
```

```
namespace databaseTest8
{
    using System;
    using System.Drawing;
    using System.Collections;
    using System.ComponentModel;
    using System.Windows.Forms;
    using System.Data;
```

```
using System.Data.ADO;

public class Form1 : System.Windows.Forms.Form
{

    private System.ComponentModel.Container components;
    private System.Windows.Forms.Label label3;
    private System.Windows.Forms.Label label2;
    private System.Windows.Forms.TextBox textBox2;
    private System.Windows.Forms.Button btdelete;
    private System.Windows.Forms.Label label1;
    private System.Windows.Forms.TextBox textBox1;
    private System.Data.ADO.ADOConnection myConnection;
    private System.Data.ADO.ADOConnection myCmd;
    private System.Data.ADO.ADODataSetCommand dsc;
    private System.Data.DataSet ds;

    public Form1()
    {

        InitializeComponent();
        myConnection = new ADOConnection();

        myConnection.ConnectionString="Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=d:\\c#\\consoleSample\\sql\\board.mdb;Persist Security Info=False";

        dsc = new ADODataSetCommand(new ADOCommand("select * from
adotest",myConnection));

        ds = new DataSet();
        dsc.FillDataSet(ds,"dsadotest");
        this.Search(1);
    }
}
```

```
        public void Search(int key)
        {
            int i=0;
            while(i<ds.Tables["dsadotest"].Rows.Count)
            {

                if(key==1)
                {
                    textBox1.Text= textBox1.Text +
ds.Tables["dsadotest"].Rows[i]["email"].ToString() +  "\n";

                } else if(key==2)
                {
                    textBox2.Text= textBox2.Text +
ds.Tables["dsadotest"].Rows[i]["email"].ToString() + "\n";
                }

                i++;
            }
        }

        public override void Dispose()
        {
            base.Dispose();
            components.Dispose();
        }

        private void InitializeComponent()
        {
            this.components = new System.ComponentModel.Container ();
            this.label1 = new System.Windows.Forms.Label ();
            this.label2 = new System.Windows.Forms.Label ();
            this.label3 = new System.Windows.Forms.Label ();
            this.btdelete = new System.Windows.Forms.Button ();
            this.textBox2 = new System.Windows.Forms.TextBox ();
```

```
        this.textBox1 = new System.Windows.Forms.TextBox ();

        label1.Location = new System.Drawing.Point (16, 56);
        label1.Text = "        ";
        label1.Size = new System.Drawing.Size (152, 24);
        label1.TabIndex = 2;
        label2.Location = new System.Drawing.Point (296, 56);
        label2.Text = "        ";
        label2.Size = new System.Drawing.Size (152, 24);
        label2.TabIndex = 5;
        label3.Location = new System.Drawing.Point (24, 8);
        label3.Text = "

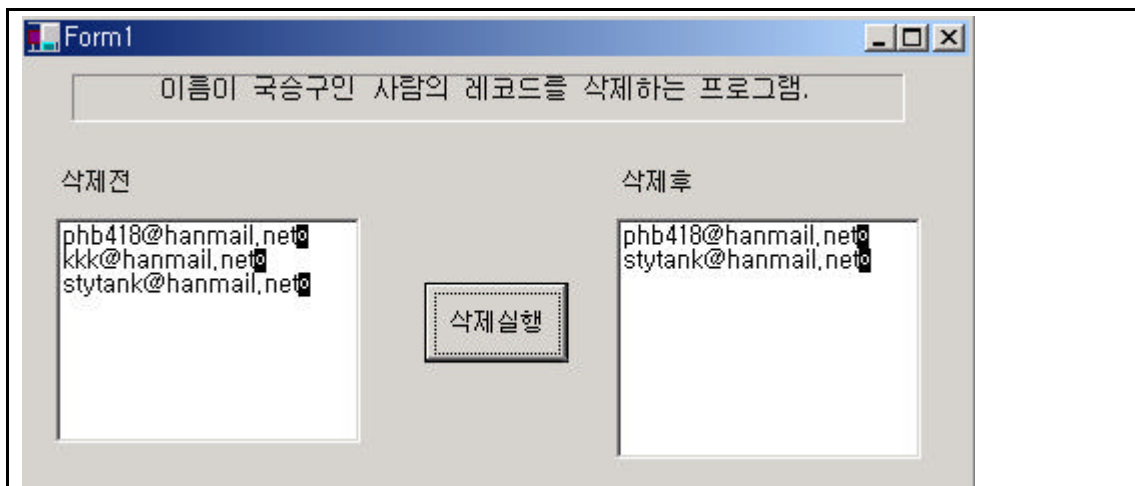
        .";

        label3.Size = new System.Drawing.Size (416, 24);
        label3.BorderStyle = System.Windows.Forms.BorderStyle.Fixed3D;
        label3.Font = new System.Drawing.Font ("        ", 10);
        label3.TabIndex = 6;
        label3.TextAlign =
System.Windows.Forms.HorizontalAlignment.Center;
        btdelete.Location = new System.Drawing.Point (200, 112);
        btdelete.Size = new System.Drawing.Size (72, 40);
        btdelete.TabIndex = 3;
        btdelete.Text = "        ";
        btdelete.Click += new System.EventHandler
(this.btdelete_Click);
        textBox2.Location = new System.Drawing.Point (296, 80);
        textBox2.Multiline = true;
        textBox2.TabIndex = 4;
        textBox2.Size = new System.Drawing.Size (152, 120);
        textBox1.Location = new System.Drawing.Point (16, 80);
        textBox1.Multiline = true;
        textBox1.TabIndex = 1;
        textBox1.Size = new System.Drawing.Size (152, 112);
        this.Text = "Form1";
        this.AutoScaleBaseSize = new System.Drawing.Size (6, 14);
        this.ClientSize = new System.Drawing.Size (472, 213);
```

```
        this.Controls.Add (this.label3);
        this.Controls.Add (this.label2);
        this.Controls.Add (this.textBox2);
        this.Controls.Add (this.btdelete);
        this.Controls.Add (this.label1);
        this.Controls.Add (this.textBox1);
    }

    protected void btdelete_Click (object sender, System.EventArgs e)
    {
        int i=0;
        while(i<ds.Tables["dsadotest"].Rows.Count)
        {
            if("".Equals(ds.Tables["dsadotest"].Rows[i]["name"].ToString()))
            {
                ds.Tables["dsadotest"].Rows[i].Delete();
                ds.Tables["dsadotest"].AcceptChanges();
            }
            i++;
        }
        this.Search(2);
    }

    public static void Main(string[] args)
    {
        Application.Run(new Form1());
    }
}
```



### 8-3. DataSet

```
( )
DataRow newrow = ds.Tables["dsadotest"].NewRow();
newrow["name"] = txtInsertName.Text;
newrow["email"] = txtInsertEmail.Text;
ds.Tables["dsadotest"].Rows.Add(newrow);
```

```
( )
imsiRow.Rows[i].BeginEdit();
imsiRow.Rows[i]["name"] = txtUpdateName.Text;
imsiRow.Rows[i]["email"] = txtUpdateEmail.Text;
imsiRow.Rows[i].EndEdit();
```

```
namespace databaseTest9
{
    using System;
    using System.Drawing;
    using System.Collections;
    using System.ComponentModel;
    using System.Windows.Forms;
    using System.Data;
    using System.Data.ADO;
```

```
public class Form1 : System.Windows.Forms.Form
{

    private System.ComponentModel.Container components;
    private System.Windows.Forms.Label label4;
    private System.Windows.Forms.Label label5;
    private System.Windows.Forms.Label label3;
    private System.Windows.Forms.TextBox txtUpdateName;
    private System.Windows.Forms.Button btDataView;
    private System.Windows.Forms.ListBox lsDataView;
    private System.Windows.Forms.Button btUpdate;
    private System.Windows.Forms.TextBox txtUpdateEmail;
    private System.Windows.Forms.TextBox txtUpdateTargetName;
    private System.Windows.Forms.GroupBox groupBox2;
    private System.Windows.Forms.Label label2;
    private System.Windows.Forms.Label label1;
    private System.Windows.Forms.Button btInsert;
    private System.Windows.Forms.TextBox txtInsertEmail;
    private System.Windows.Forms.TextBox txtInsertName;
    private System.Windows.Forms.GroupBox groupBox1;

    private System.Data.ADO.ADOConnection myConnection;
    private System.Data.ADO.ADODataSetCommand dsc;
    private System.Data.DataSet ds;

    public Form1()
    {

        InitializeComponent();

        myConnection = new ADOConnection();

        myConnection.ConnectionString="Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=d:\\c#\\consoleSample\\sql\\board.mdb;Persist Security Info=False";
```



```
dsc = new ADODataSetCommand(new ADOCommand("select * from
adotest",myConnection));

ds = new DataSet();
dsc.FillDataSet(ds,"dsadotest");

}

public override void Dispose()
{
    base.Dispose();
    components.Dispose();
}

private void InitializeComponent()
{
    this.components = new System.ComponentModel.Container ();
    this.lstDataView = new System.Windows.Forms.ListBox ();
    this.groupBox1 = new System.Windows.Forms.GroupBox ();
    this.btInsert = new System.Windows.Forms.Button ();
    this.btDataView = new System.Windows.Forms.Button ();
    this.txtUpdateTargetName = new System.Windows.Forms.TextBox ();
    this.groupBox2 = new System.Windows.Forms.GroupBox ();
    this.txtInsertName = new System.Windows.Forms.TextBox ();
    this.txtUpdateEmail = new System.Windows.Forms.TextBox ();
    this.label4 = new System.Windows.Forms.Label ();
    this.label5 = new System.Windows.Forms.Label ();
    this.txtInsertEmail = new System.Windows.Forms.TextBox ();
    this.btUpdate = new System.Windows.Forms.Button ();
    this.label2 = new System.Windows.Forms.Label ();
    this.label3 = new System.Windows.Forms.Label ();
    this.txtUpdateName = new System.Windows.Forms.TextBox ();
    this.label1 = new System.Windows.Forms.Label ();
    //@this.TrayHeight = 0;
    //@this.TrayLargeIcon = false;
```

```
//@this.TrayAutoArrange = true;
IsDataView.Location = new System.Drawing.Point (296, 32);
IsDataView.Size = new System.Drawing.Size (192, 304);
IsDataView.TabIndex = 5;
IsDataView.Items.All = new object[1] {"
    "};

groupBox1.Location = new System.Drawing.Point (24, 24);
groupBox1.TabIndex = 3;
groupBox1.TabStop = false;
groupBox1.Text = "    ";
groupBox1.Size = new System.Drawing.Size (232, 136);
btInsert.Location = new System.Drawing.Point (112, 96);
btInsert.Size = new System.Drawing.Size (96, 32);
btInsert.TabIndex = 2;
btInsert.Text = "    ";
btInsert.Click += new System.EventHandler
(this.btInsert_Click);

btDataView.Location = new System.Drawing.Point (296, 352);
btDataView.Size = new System.Drawing.Size (192, 32);
btDataView.TabIndex = 6;
btDataView.Text = "    ";
btDataView.Click += new System.EventHandler
(this.btDataView_Click);

txtUpdateTargetName.Location = new System.Drawing.Point
(112, 24);

txtUpdateTargetName.TabIndex = 0;
txtUpdateTargetName.Size = new System.Drawing.Size (112,
21);

groupBox2.Location = new System.Drawing.Point (16, 200);
groupBox2.TabIndex = 4;
groupBox2.TabStop = false;
groupBox2.Text = "    ";
groupBox2.Size = new System.Drawing.Size (248, 184);
txtInsertName.Location = new System.Drawing.Point (96,
32);

txtInsertName.TabIndex = 0;
```

```
txtInsertName.Size = new System.Drawing.Size (112, 21);
txtUpdateEmail.Location = new System.Drawing.Point (112,
96);

txtUpdateEmail.TabIndex = 1;
txtUpdateEmail.Size = new System.Drawing.Size (112, 21);
label4.Location = new System.Drawing.Point (16, 96);
label4.Text = "          ";
label4.Size = new System.Drawing.Size (72, 24);
label4.TabIndex = 7;
label5.Location = new System.Drawing.Point (16, 56);
label5.Text = "          ";
label5.Size = new System.Drawing.Size (72, 24);
label5.TabIndex = 8;
txtInsertEmail.Location = new System.Drawing.Point (96,
64);

txtInsertEmail.TabIndex = 1;
txtInsertEmail.Size = new System.Drawing.Size (112, 21);
btUpdate.Location = new System.Drawing.Point (120, 144);
btUpdate.Size = new System.Drawing.Size (104, 32);
btUpdate.TabIndex = 2;
btUpdate.Text = "    ";
btUpdate.Click += new System.EventHandler
(this.btUpdate_Click);

label2.Location = new System.Drawing.Point (16, 72);
label2.Text = "          ";
label2.Size = new System.Drawing.Size (72, 24);
label2.TabIndex = 4;
label3.Location = new System.Drawing.Point (16, 24);
label3.Text = "          ";
label3.Size = new System.Drawing.Size (80, 24);
label3.TabIndex = 4;
txtUpdateName.Location = new System.Drawing.Point (112,
56);

txtUpdateName.TabIndex = 3;
txtUpdateName.Size = new System.Drawing.Size (112, 21);
label1.Location = new System.Drawing.Point (16, 32);
```

```
        label1.Text = "    ";
        label1.Size = new System.Drawing.Size (64, 24);
        label1.TabIndex = 3;
        this.Text = "Form1";
        this.AutoScaleBaseSize = new System.Drawing.Size (6, 14);
        this.ClientSize = new System.Drawing.Size (520, 413);
        this.Controls.Add (this.btDataView);
        this.Controls.Add (this.lsDataView);
        this.Controls.Add (this.groupBox2);
        this.Controls.Add (this.groupBox1);
        groupBox1.Controls.Add (this.label2);
        groupBox1.Controls.Add (this.label1);
        groupBox1.Controls.Add (this.btInsert);
        groupBox1.Controls.Add (this.txtInsertEmail);
        groupBox1.Controls.Add (this.txtInsertName);
        groupBox2.Controls.Add (this.label4);
        groupBox2.Controls.Add (this.label5);
        groupBox2.Controls.Add (this.label3);
        groupBox2.Controls.Add (this.txtUpdateName);
        groupBox2.Controls.Add (this.btUpdate);
        groupBox2.Controls.Add (this.txtUpdateEmail);
        groupBox2.Controls.Add (this.txtUpdateTargetName);
    }

    //
    //
    //

    protected void btUpdate_Click (object sender, System.EventArgs e)
    {
        int i=0,key=0;

        if(txtUpdateTargetName.Text.Equals(""))
        {
            MessageBox.Show("

```

```
");  
  
        return;  
  
    } else if (txtUpdateName.Text.Equals(""))  
    {  
        MessageBox.Show("이름을 입력하십시오.");  
        return;  
    } else if (txtUpdateEmail.Text.Equals(""))  
    {  
        MessageBox.Show("이메일을 입력하십시오.");  
        return;  
    }  
  
    //  
    //  
    //  
    DataTable imsiRow = ds.Tables["dsadotest"];  
    while(i<imsiRow.Rows.Count)  
    {  
  
        if(imsiRow.Rows[i]["name"].ToString().Equals(txtUpdateTargetName.Text))  
        {  
            imsiRow.Rows[i].BeginEdit();  
  
            imsiRow.Rows[i]["name"]=txtUpdateName.Text;  
  
            imsiRow.Rows[i]["email"]=txtUpdateEmail.Text;  
            imsiRow.Rows[i].EndEdit();  
            key=1;  
        }  
  
        //  
        //가  
        //
```

```

        if(key==0 && i==imsiRow.Rows.Count-1){
            MessageBox.Show("
                .");
            txtUpdateTargetName.Text="";
            txtUpdateName.Text="";
            txtUpdateEmail.Text="";
            return;
        }
        i++;
    }
}

//
//      select
//
protected void btDataView_Click (object sender, System.EventArgs
e)
{
    IsDataView.Items.All = new object[1] {"
    "};

    int i=0;
    DataTable imsiRow = ds.Tables["dsadotest"];
    while(i<ds.Tables["dsadotest"].Rows.Count)
    {

        IsDataView.Items.Add(imsiRow.Rows[i]["name"].ToString() + "    " +
        imsiRow.Rows[i]["email"].ToString());
        i++;
    }
}

//
//      insert
//
protected void btInsert_Click (object sender, System.EventArgs e)

```

```
        {  
            if(txtInsertName.Text.Equals(""))  
            {  
                MessageBox.Show("Name is empty");  
                return;  
            }  
  
            if(txtInsertEmail.Text.Equals(""))  
            {  
                MessageBox.Show("Email is empty");  
                return;  
            }  
            //clear  
            IsDataView.Items.All=new object[1] {"  
};  
  
            DataRow newrow = ds.Tables["dsadotest"].NewRow();  
            newrow["name"]=txtInsertName.Text;  
            newrow["email"]=txtInsertEmail.Text;  
            ds.Tables["dsadotest"].Rows.Add(newrow);  
  
            //clear  
            txtInsertName.Text="";  
            txtInsertEmail.Text="";  
        }  
    }  
}
```

```
public static void Main(string[] args)  
{  
    Application.Run(new Form1());  
}  
}
```

The screenshot shows a Windows application window titled "Form1". The interface is divided into two main sections: "삽입" (Insert) and "변경" (Change).

**삽입 (Insert) Section:**

- Contains two text input fields: "이름" (Name) and "이메일" (Email).
- A button labeled "삽입" (Insert) is located below the input fields.

**변경 (Change) Section:**

- Contains three text input fields: "변경대상이름" (Change Target Name), "변경이름" (Change Name), and "변경이메일" (Change Email).
- A button labeled "변경" (Change) is located below the input fields.

**Results Section:**

- A large text area on the right side of the form displays the results of the operations.
- Below the text area is a button labeled "결과보기" (View Results).

**Text Area Content:**

이름: phb418@hanmail.net  
이메일: kkk@hanmail.net  
이름: stytank@hanmail.net  
이메일: since98@hanmail.net