

## CS ADOForm ver2 소스

//ver2

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using Oracle.DataAccess.Client;
namespace ADOForm
{
    public partial class Form1 : Form
    {
        1. 객체 변수 선언

        //수정하거나 삭제하기 위해 선택된 행의 인덱스를 저장한다.
        private int SelectedRowIndex;

        // Data Provider인 DBAdapter 입니다.
        OracleDataAdapter DBAdapter;

        // DataSet 객체입니다.
        DataSet DS;

        // 추가, 수정, 삭제시에 필요한 명령문을
        // 자동으로 작성해주는 객체입니다.
        OracleCommandBuilder myCommandBuilder;

        // DataTable 객체입니다.
        DataTable phoneTable;

        // 수정, 삭제할 때 필요한 레코드의 키값을 보관할 필드
        private int SelectedKeyValue;

        private void ClearTextBoxes()
        {
            txtid.Clear();
            txtName.Clear();
            txtPhone.Clear();
            txtMail.Clear();
        }

        private void DB_Open()
        {
            try
            {
                string connectionString = "User Id=hong1;
                Password=1111; Data Source=(DESCRIPTION = (ADDRESS =
                (PROTOCOL = TCP)(HOST = localhost)(PORT = 1521))
                (CONNECT_DATA = (SERVER = DEDICATED)
                (SERVICE_NAME = xe) ) );";

                string commandString = "select * from Phone";

                DBAdapter = new
                OracleDataAdapter(commandString, connectionString);
                myCommandBuilder = new
                OracleCommandBuilder(DBAdapter);

                DS = new DataSet();
            }
            catch (DataException DE)
            {
                MessageBox.Show(DE.Message);
            }
        }

        public Form1()
        {
            InitializeComponent();
            DB_Open();/*
        */

        private void DAOpenBtn_Click(object sender, EventArgs
        e)
        {
            try
            {
                DS.Clear();/**
                DBAdapter.Fill(DS, "phone");
                DBGrid.DataSource =
                DS.Tables["phone"].DefaultView;
            }
            catch (DataException DE)
            {
                MessageBox.Show(DE.Message);
            }
            catch (Exception DE)
            {
                MessageBox.Show(DE.Message);
            }
        }
    }
}
```

```

    }

    private void AppendBtn_Click(object sender, EventArgs e)
    {
        try
        {
            MessageBox.Show("텍스트 상자에 모든 데이터 입력
            하셨으면 추가합니다!");
            DS.Clear();/**
            DBAdapter.Fill(DS, "Phone");

            phoneTable = DS.Tables["Phone"];/**
            DataRow newRow = phoneTable.NewRow();
            newRow["id"] = Convert.ToInt32(txtid.Text);
            newRow["PName"] = txtName.Text;
            newRow["Phone"] = txtPhone.Text;
            newRow["Email"] = txtMail.Text;

            phoneTable.Rows.Add(newRow);
            DBAdapter.Update(DS, "Phone");
            DS.AcceptChanges();/**
            ClearTextBoxes(); /**

            DBGrid.DataSource = DS.Tables["Phone"].DefaultView;
        }
        catch (DataException DE)
        {
            MessageBox.Show(DE.Message);
        }
        catch (Exception DE)
        {
            MessageBox.Show(DE.Message);
        }
    }

    private void dataGridView1_CellClick(object sender,
    DataGridViewCellEventArgs e)
    {
        try
        {
            DataSet DS = new DataSet();/**
            DBAdapter.Fill(DS, "Phone");/**

            DataTable phoneTable = DS.Tables["Phone"];

            if (e.RowIndex < 0)
            {
                // DBGrid의 컬럼 헤더를 클릭하면 컬럼을 정렬하브
                // 아무 메시지도 띄우지 않습니다.
                return;
            }
            else if (e.RowIndex > phoneTable.Rows.Count - 1)
            {
                MessageBox.Show("해당하는 데이터가 존재하지 않
                습니다.");
                return;
            }

            DataRow currRow = phoneTable.Rows[e.RowIndex];
            txtid.Text = currRow["id"].ToString();
            txtName.Text = currRow["PName"].ToString();
            txtPhone.Text = currRow["Phone"].ToString();
            txtMail.Text = currRow["EMail"].ToString();

            SelectedRowIndex = Convert.ToInt32(currRow["id"]);
        }
        catch (DataException DE)
        {
            MessageBox.Show(DE.Message);
        }
        catch (Exception DE)
        {
            MessageBox.Show(DE.Message);
        }
    }
}
```

```

private void UpdateBtn_Click(object sender, EventArgs e)
{
    try
    {
        DS.Clear();/**
        DBAdapter.Fill(DS, "Phone");

        phoneTable = DS.Tables["Phone"];/**
        DataColumn[] PrimaryKey = new DataColumn[1];
        PrimaryKey[0] = phoneTable.Columns["id"];
        phoneTable.PrimaryKey = PrimaryKey;

        DataRow currRow =
        phoneTable.Rows.Find(SelectedRowIndex);

        currRow.BeginEdit();
        currRow["id"] = txtid.Text;
        currRow["PName"] = txtName.Text;
        currRow["Phone"] = txtPhone.Text;
        currRow["EMail"] = txtMail.Text;
        currRow.EndEdit();

        DataSet UpdatedSet =
        DS.GetChanges(DataRowState.Modified);
        if (UpdatedSet.HasErrors)
        {
            MessageBox.Show("변경된 데이터에 문제가 있
            습니다.");
        }
        else
        {
            DBAdapter.Update(UpdatedSet, "Phone");
            DS.AcceptChanges();
        }

        DBGrid.DataSource =
        DS.Tables["Phone"].DefaultView;
    }
    catch (DataException DE)
    {
        MessageBox.Show(DE.Message);
    }
    catch (Exception DE)
    {
        MessageBox.Show(DE.Message);
    }
}

private void DeleteBtn_Click(object sender, EventArgs e)
{
    try
    {
        DS.Clear();/**
        DBAdapter.Fill(DS, "Phone");

        phoneTable = DS.Tables["Phone"];/**
        DataColumn[] PrimaryKey = new DataColumn[1];
        PrimaryKey[0] = phoneTable.Columns["id"];
        phoneTable.PrimaryKey = PrimaryKey;

        DataRow currRow =
        phoneTable.Rows.Find(SelectedRowIndex);
        currRow.Delete();

        DBAdapter.Update(DS.GetChanges(DataRowState.Deleted),
        "Phone");

        DBGrid.DataSource =
        DS.Tables["Phone"].DefaultView;
    }
    catch (DataException DE)
    {
        MessageBox.Show(DE.Message);
    }
    catch (Exception DE)
    {
        MessageBox.Show(DE.Message);
    }
}

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

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private void SearchBtn_Click(object sender, EventArgs e)
{
    DS.Clear();
    DBAdapter.Fill(DS, "Phone");
    phoneTable = DS.Tables["Phone"];

    DataRow[] ResultRows
    = phoneTable.Select("PName like '%" +
    txtSearch.Text + "%'");

    NameList.Items.Clear();

    foreach (DataRow currRow in ResultRows)
    {
        NameList.Items.Add(currRow["id"].ToString()
        + " " + currRow["PName"].ToString());
    }
}

private void NameList_SelectedIndexChanged(object
sender, EventArgs e)
{
    DS.Clear();
    DBAdapter.Fill(DS, "Phone");
    phoneTable = DS.Tables["Phone"];

    DataRow[] ResultRows = phoneTable.Select("PName
    like '%" + txtSearch.Text + "%'");

    DataColumn[] PrimaryKey = new DataColumn[1];
    PrimaryKey[0] = phoneTable.Columns["id"];
    phoneTable.PrimaryKey = PrimaryKey;

    DataRow currRow =
    phoneTable.Rows.Find(NameList.Text.Substring(0, 2));/**

    SelectedKeyValue =
    Convert.ToInt32(currRow["id"].ToString());
    txtid.Text = currRow["id"].ToString();
    txtName.Text = currRow["PName"].ToString();
    txtMail.Text = currRow["Email"].ToString();
    txtPhone.Text = currRow["Phone"].ToString();
}

private void UpBtn_Click(object sender, EventArgs e)
{
    if (NameList.SelectedIndex != 0)
    {
        NameList.SelectedIndex = NameList.SelectedIndex - 1;
    }
    else
    {
        MessageBox.Show("이곳은 레코드의 처음입니다.");
    }
}

private void DownBtn_Click(object sender, EventArgs e)
{
    if (NameList.SelectedIndex != NameList.Items.Count -
    1)
    {
        NameList.SelectedIndex = NameList.SelectedIndex + 1;
    }
    else
    {
        MessageBox.Show("이곳은 레코드의 마지막입니
        다.");
    }
}
}
}

```