

ДОДАТОК А

Лістинг програми

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace SQLite_Form
{
    public partial class Form1 : Form
    {
        public static string mPath = AppDomain.CurrentDomain.BaseDirectory;
        public static string mDBPath = mPath + "SQLite.db3";
        string selectFileName = "";
        string selectTable = "";
        public Form1()
        {
            InitializeComponent();
        }
        //classfieldMembers
        //{
        //    public string Label { get; set; }
        //    public string Name { get; set; }
        //}
```

```

private void button1_Click(object sender, EventArgs e)
{
}

private void Form1_Load(object sender, EventArgs e)
{
    updateListDB();
    textBox1.Text = "";
    textBox2.Text = "";
}

private void button2_Click(object sender, EventArgs e)
{
    tablessControl1.SelectedTab = tabPage1;
    updateListDB();
    textBox1.Text = "";
    textBox2.Text = "";
}

private void updateListDB()
{
    List<string> filesDir = (from a in Directory.GetFiles(mPath, "*.sdb")
    select Path.GetFileName(a)).ToList();
    listBox1.Items.Clear();
    foreach (string s in filesDir)
    {
        listBox1.Items.Add(s);
    }
}

private void listBox1_SelectedIndexChanged(object sender, EventArgs e)
{
    selectFileName = listBox1.Items[listBox1.SelectedIndex].ToString();
}

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private void button4_Click(object sender, EventArgs e)
{
    if (textBox1.Text != "")
    {
        System.IO.File.WriteAllText(mPath + textBox1.Text + ".sdb", textBox2.Text);
        string sql = "Createtable " + textBox1.Text + "(";
        string text = System.IO.File.ReadAllText(String.Format("{0}.sdb", mPath +
        textBox1.Text));
        string[] stringSeparators = new string[] { "\r\n" };
        string[] ravnoSeparators = new string[] { " = " };
        string[] field = text.Split(stringSeparators, StringSplitOptions.None);
        foreach (String s in field)
        {
            if (s != "") // пропускаємо порожні рядки
            {
                if (s.Contains("=")) // відокремлюємо поля без назви
                {
                    string[] pair = s.Split(ravnoSeparators, StringSplitOptions.None);
                    if (pair.Length == 2)
                    {
                        sql = sql + String.Format(", {0} TEXT", pair[0]);
                    }
                }
            }
            else
            {
                sql = sql + String.Format("{0} integer PRIMARY KEY AUTOINCREMENT NOT
                NULL", s);
            }
        }
    }
}

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        }
sql = sql + String.Format("");");
DataBase.Exec_SQL(sql);
    }
updateListDB();
    textBox1.Text = "";
    textBox2.Text = "";
}
privatevoid button5_Click(objectsender, EventArgs e)
{
if (selectFileName != "")
    {
File.Delete(mPath + selectFileName);
updateListDB();
    textBox1.Text = "";
    textBox2.Text = "";
    }
}
privatevoid button3_Click(objectsender, EventArgs e)
{
    tablessControl1.SelectedTab = tabPage2;
LoadDataTableList();
}
privatevoidLoadDataTableList()
{
    panel2.Controls.Clear();
List<string>filesDir = (from a inDirectory.GetFiles(mPath, "*.sdb")
selectPath.GetFileName(a)).ToList();
    listBox1.Items.Clear();
int x = 10;

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int y = 5;
foreach (string s infilesDir)
    {
Stringname = Path.GetFileNameWithoutExtension(s);
Button b = newButton();
b.Top = y;
b.Left = x;
b.Text = name;
b.AutoSize = true;
b.Click += newEventHandler(button_Click);
b.Parent = panel2;
        x = x + b.Width + 4;
    }
}

privatevoidbutton_Click(objectsender, EventArgs e)
    {
Button b = (Button)sender;
selectTable = b.Text;
FillTable();
    }

privatevoid button6_Click(objectsender, EventArgs e)
    {
DataDialogdd = newDataDialog();
dd.dataName = selectTable;
DialogResultres = dd.ShowDialog();
if (res == DialogResult.Cancel) return;
FillTable();
    }

privatevoidFillTable()

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```

    {
Control_ViewTablecv = control_ViewTable1;
stringsql = String.Format("Select * from {0};", selectTable);
cv.tableStructure.Clear();
stringtext = System.IO.File.ReadAllText(String.Format("{0}.sdb", selectTable));
string[] stringSeparators = newstring[] { "\r\n" };
string[] ravnoSeparators = newstring[] { " = " };
string[] field = text.Split(stringSeparators, StringSplitOptions.None);

        // ПОДІЛЯЄМО НА ПОЛЯ І НАЗВИ

intcount = 0;
foreach (String s infield)
    {
if (s != "") // пропускаємо порожні рядки
    {
if (s.Contains("=")) // відокремлюємо поля без назви
    {
string[] pair = s.Split(ravnoSeparators, StringSplitOptions.None);
if (pair.Length == 2)
    {
If (count==0) cv.tableStructure.Add(newControl_ViewTable.TableStructure(pair[0],
"string", pair[1], 200, HorizontalAlignment.Left, 0, true));
elsecv.tableStructure.Add(newControl_ViewTable.TableStructure(pair[0],      "string",
pair[1], 200, HorizontalAlignment.Left, 0, false));
count++;
    }
    }
else
    {
cv.ID_Field_Name = s;

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        }
    }
}
cv.createStructure();
cv.sql_d = sql;
cv.FillDataList();
    }
}
publicclassTablessControl :TabControl
{
protectedoverridevoidWndProc(refMessage m)
    {
        // Hidetabsbytrappingthe TCM_ADJUSTRECT message
if (m.Msg == 0x1328 && !DesignMode) m.Result = (IntPtr)1;
elsebase.WndProc(ref m);
    }
}
}
usingSystem;
usingSystem.Collections.Generic;
usingSystem.ComponentModel;
usingSystem.Data;
usingSystem.Drawing;
usingSystem.Linq;
usingSystem.Text;
usingSystem.Threading.Tasks;
usingSystem.Windows.Forms;

namespaceSQLite_Form
{

```

```

publicpartialclassDataDialog :Form
{
publicstringdataName = "";
List<fieldMembers>fieldName = newList<fieldMembers>();
publicstringmode = "insert";

classfieldMembers
{
publicstringLabel{ get; set; }
publicstringName{ get; set; }
}

publicDataDialog()
{
InitializeComponent();
}

privatevoidDataDialog_Load(objectsender, EventArgs e)
{
fieldName.Clear();
stringtext = System.IO.File.ReadAllText(String.Format("{0}.sdb", dataName));
string[] stringSeparators = newstring[] { "\r\n" };
string[] ravnoSeparators = newstring[] { " = " };
string[] field = text.Split(stringSeparators, StringSplitOptions.None);

// поділяємо на поля і назви
foreach (String s infield)
{
if (s != "") // пропускаємо порожні рядки
{

```

```

if (s.Contains("=")) // відокремлюємо поля без назви
    {
string[] pair = s.Split(ravnoSeparators, StringSplitOptions.None);
if (pair.Length == 2)
    {
fieldMembersitem = newfieldMembers();
item.Name = pair[0];
item.Label = pair[1];

fieldName.Add(item); // додаємо поле до списку

    }
    }
}

//Generatefield
geerateField();
if (mode == "edit")
    {
    }
}

publicvoidgeerateField()
    {
int x = 10;
int y = 10;
foreach (fieldMembersiteminfieldName)
    {
Labellabel = newLabel();
label.AutoSize = true;
label.Left = x;

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label.Top = y;
label.Text = item.Label;
label.Parent = panel3;

if (item.Name.Contains("ID"))
    {

    }
else
    {
    TextBox tb = new TextBox();
    tb.Left = x + 120;
    tb.Top = y;
    tb.Tag = item.Name;
    tb.Width = 260;
    tb.Parent = panel3;
    }
    y = y + 24;
    }
if (y + 24 > panel3.Height)
    {
    panel3.Height = y + 24;
    }
    }

private void button1_Click(object sender, EventArgs e)
    {
    string field = "";
    string value = "";
    foreach (object obj in panel3.Controls)
```

```
        {  
if (obisTextBox)  
        {  
field = field + " " + (obasTextBox).Tag.ToString() + ",";  
value = value + " " + (obasTextBox).Text.ToString() + ",";  
        }  
        }  
field = field.TrimEnd(',');  
value = value.TrimEnd(',');  
stringsql = "";  
if (mode == "insert")  
        {  
sql = String.Format("INSERT INTO '{0}' ({1}) VALUES ({2});", dataName, field,  
value);  
        }  
DataBase.Exec_SQL(sql);  
this.DialogResult = DialogResult.OK;  
Close();  
        }  
private void button2_Click(object sender, EventArgs e)  
        {  
Close();  
        }  
    }  
}
```

ДОДАТОК Б

Демонстраційний матеріал

