# 读取csv文件

# 工具

Visual studio 2017, Sql server 2017

# 技术

C#, winForm

# 代码

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| 数据库操作代码 |
| using System;  using System.Data;  using System.Data.SqlClient;  namespace mingrisoft\_3\_\_test\_v.\_0.\_0.\_1  {  public class sqlHelper  {  static string sqlConnect = "Data Source=DESKTOP-9H2IJLA\\MSSQLDEVELOP17;User ID=mingrisoft;Password=mingrisoft;Connect Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;MultiSubnetFailover=False";  SqlConnection con = new SqlConnection(sqlConnect);  SqlDataReader sdr;  public SqlConnection GetCon()  {  return con;  }  public SqlDataReader QueryOperationProc(string StrQueryCommand)  {  if (con.State == System.Data.ConnectionState.Closed)  con.Open();  SqlCommand cmd = new SqlCommand();  cmd.Connection = con;  cmd.CommandText = StrQueryCommand;  if(sdr != null)  {  sdr.Close();  }  sdr = cmd.ExecuteReader();  return sdr;  }  public DataTable Query(String StrQueryCommand)  {  if (con.State == System.Data.ConnectionState.Closed)  con.Open();  DataTable dt = new DataTable();  SqlDataAdapter sda = new SqlDataAdapter(StrQueryCommand, con);  sda.Fill(dt);  return dt;  }  public bool ExeNonQuery(String StrCmd)  {  if (con.State == System.Data.ConnectionState.Closed)  con.Open();  SqlCommand cmd = new SqlCommand();  cmd.Connection = con;  cmd.CommandText = StrCmd;  try  {  cmd.ExecuteNonQuery();  }  catch (Exception ex)  {  throw ex;  }  return true;  }  public void closeConn()  {  if (con.State != System.Data.ConnectionState.Closed)  con.Close();  }  public bool ExeNoQueryProc(String cmdName, SqlParameter[] ps)  {  if (con.State == System.Data.ConnectionState.Closed)  con.Open();  SqlCommand cmd = new SqlCommand();  cmd.Connection = con;  cmd.CommandText = cmdName;  cmd.CommandType = System.Data.CommandType.StoredProcedure;  foreach (SqlParameter p in ps)  {  cmd.Parameters.Add(p);  }  try  {  cmd.ExecuteNonQuery();  }  catch (Exception ex)  {  throw ex;  }  return true;  }  public DataTable QueryOperationProc(String cmdName, SqlParameter[] ps)  {  if (con.State == System.Data.ConnectionState.Closed)  con.Open();  SqlCommand cmd = new SqlCommand();  cmd.Connection = con;  cmd.CommandText = cmdName;  cmd.CommandType = System.Data.CommandType.StoredProcedure;  if (ps != null)  {  foreach (SqlParameter p in ps)  {  cmd.Parameters.Add(p);  }  }  DataTable dt = new DataTable();  SqlDataAdapter sda = new SqlDataAdapter(cmd);  sda.Fill(dt);  return dt;  }  public DataTable QueryProc(String cmdStr, SqlParameter[] ps)  {  DataTable dt = new DataTable();  if (con.State == System.Data.ConnectionState.Closed)  con.Open();  SqlCommand cmd = new SqlCommand();  cmd.Connection = con;  cmd.CommandType = CommandType.StoredProcedure;  cmd.CommandText = cmdStr;  if (ps != null)  {  foreach (SqlParameter p in ps)  {  cmd.Parameters.Add(p);  }  }  SqlDataAdapter sda = new SqlDataAdapter(cmd);  sda.Fill(dt);  con.Close();  return dt;  }  }  } |
| 操作界面 |
| using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Data.OleDb;  using System.Data.SqlClient;  using System.Drawing;  using System.IO;  using System.Linq;  using System.Text;  using System.Text.RegularExpressions;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace mingrisoft\_3\_\_test\_v.\_0.\_0.\_1  {  public partial class readcsv : Form  {  public readcsv()  {  InitializeComponent();  }  private void readcsv\_Load(object sender, EventArgs e)  {  // TODO: 这行代码将数据加载到表“mingrisoftDataSet.Basis”中。您可以根据需要移动或删除它。  this.basisTableAdapter.Fill(this.mingrisoftDataSet.Basis);  }  private void button1\_Click(object sender, EventArgs e)  {  sqlHelper shr = new sqlHelper();  if(openFileDialog1.ShowDialog()==DialogResult.OK)  {  textBox1.Text = openFileDialog1.FileName;  //显示  StreamReader sReader = new StreamReader(textBox1.Text,Encoding.UTF8);  string strLine = string.Empty;  while((strLine = sReader.ReadLine()) != null)  {  string[] str = strLine.Split(new string[] {","},StringSplitOptions.RemoveEmptyEntries);  //显示添加的数据  int index3 = this.dataGridView3.Rows.Add();  this.dataGridView3.Rows[index3].Cells[0].Value = str[0];  this.dataGridView3.Rows[index3].Cells[1].Value = str[1];  #region 录入数据库  SqlParameter[] sp =  {  new SqlParameter("@Id",SqlDbType.Int),  new SqlParameter("description",SqlDbType.NVarChar)  };  sp[0].Value = str[0];  sp[1].Value = str[1];  shr.ExeNoQueryProc("Proc\_InsertBasis", sp);  shr.closeConn();  #endregion  #region 从数据库绑定datagridview    sqlHelper shr1 = new sqlHelper();  string sqlSelect = "select \* from Basis";  SqlDataAdapter sda = new SqlDataAdapter(sqlSelect,shr.GetCon());  DataSet ds = new DataSet();  sda.Fill(ds);    this.dataGridView1.DataSource = ds.Tables[0];  this.dataGridView1.AutoGenerateColumns = false;  #endregion    }  }  }  private void checkBox12\_CheckedChanged(object sender, EventArgs e)  {  if(checkBox12.Checked == true)  {  checkBox11.Checked = false;  checkBox11.Enabled = false;  }else if(checkBox12.Checked == false)  {  checkBox11.Enabled = true;  }  }  private void checkBox22\_CheckedChanged(object sender, EventArgs e)  {  if (checkBox22.Checked == true)  {  checkBox21.Checked = false;  checkBox21.Enabled = false;  }  else if (checkBox22.Checked == false)  {  checkBox21.Enabled = true;  }  }  }  } |

# 操作

点击读取csv文件按钮，录入数据库数据。

读取的内容显示在第三dategridview表，数据库中已有和后添加内容显示在第一张datagridview表。

# 可优化空间

线程的注入、大数据的操作、listview的介入.