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Bài thực hành

TH1: Tạo cơ sở dữ liệu mới trong SQL Server bằng Query sau:

CREATE DATABASE QuanLyBanSach

GO

USE QuanLyBanSach

GO

CREATE TABLE [dbo].[NhaXuatBan] (

[NXB] CHAR (10) NOT NULL,

[TenNXB] NVARCHAR (100) NULL,

[DiaChi] NVARCHAR (500) NULL,

PRIMARY KEY ([NXB])

);

GO

CREATE TABLE [dbo].[Sach] (

[MaSach] CHAR (10) NOT NULL,

[TenSach] NVARCHAR (300) NULL,

[NXB] CHAR (10) NULL,

[TenTG] NVARCHAR (100) NULL,

[NamXB] DATETIME NULL,

[GhiChu] NVARCHAR (500) NULL,

PRIMARY KEY ([MaSach])

);

GO

ALTER TABLE Sach

ADD FOREIGN KEY (NXB) REFERENCES NhaXuatBan (NXB);

GO

INSERT INTO NhaXuatBan (NXB, TenNXB, DiaChi) VALUES

('001', N'Học viện X-men', N'Quang Trung, HÀ NỘI'),

('002', N'Khoa học xã hội', N'Trần Phú, HÀ Nội'),

('003', N'Viện văn hóa thể thao', N'Hai Bà Trưng, HÀ Nội');

GO

INSERT INTO Sach (MaSach, TenSach, NXB, TenTG, NamXB, GhiChu) VALUES

('1', N'Học lập trình C#', '001', N'Nguyễn Lưu', CONVERT(datetime, '2022'), N'Khg'), -- [cite: 68]

('2', N'Lập trình ASP.NET core', '002', N'Trọng Khải', CONVERT(datetime, '2019'), N'Khg'), -- [cite: 70]

('3', N'Lập trình Scratch', '002', N'Bá Trọng', CONVERT(datetime, '2022'), N'Khg'); -- [cite: 72]

GO

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Tạo form1 sau:

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Nội dung form1.cs:

using Microsoft.Data.SqlClient;

using System.Data;

namespace bai8

{

public partial class Form1 : Form

{

// Chuỗi kết nối

string strCon = @"Server=DUNGX;Database=QuanLyBanSach;User Id=sa;Password=Admin@12345;TrustServerCertificate=True;";

// Đối tượng kết nối

Microsoft.Data.SqlClient.SqlConnection? sqlCon = null;

// Mở kết nối

private void MoKetNoi()

{

if (sqlCon == null)

{

sqlCon = new Microsoft.Data.SqlClient.SqlConnection(strCon);

}

if (sqlCon.State == ConnectionState.Closed)

{

sqlCon.Open();

}

}

// Đóng kết nối

private void DongKetNoi()

{

if (sqlCon != null && sqlCon.State == ConnectionState.Open)

{

sqlCon.Close();

}

}

// Hiển thị danh sách nhà xuất bản

private void HienThiDanhSachNXB()

{

MoKetNoi();

var sqlCmd = new Microsoft.Data.SqlClient.SqlCommand();

sqlCmd.CommandType = CommandType.StoredProcedure;

sqlCmd.CommandText = "HienThiNXB";

sqlCmd.Connection = sqlCon;

var reader = sqlCmd.ExecuteReader();

lsvDanhSach.Items.Clear();

while (reader.Read())

{

string maNXB = reader.GetString(0);

string tenNXB = reader.GetString(1);

string diaChi = reader.GetString(2);

ListViewItem lvi = new ListViewItem(maNXB);

lvi.SubItems.Add(tenNXB);

lvi.SubItems.Add(diaChi);

lsvDanhSach.Items.Add(lvi);

}

reader.Close();

DongKetNoi();

}

private void Form1\_Load(object? sender, EventArgs e)

{

HienThiDanhSachNXB();

}

private void lsvDanhSach\_SelectedIndexChanged(object? sender, EventArgs e)

{

if (lsvDanhSach.SelectedItems.Count == 0) return;

ListViewItem lvi = lsvDanhSach.SelectedItems[0];

string maNXB = lvi.SubItems[0].Text;

HienThiThongTinNXBTheoMa(maNXB);

}

private void HienThiThongTinNXBTheoMa(string maNXB)

{

MoKetNoi();

var sqlCmd = new Microsoft.Data.SqlClient.SqlCommand();

sqlCmd.CommandType = CommandType.StoredProcedure;

sqlCmd.CommandText = "HienThiChiTietNXB";

sqlCmd.Connection = sqlCon;

var parMaNXB = new Microsoft.Data.SqlClient.SqlParameter("@maNXB", System.Data.SqlDbType.Char);

parMaNXB.Value = maNXB;

sqlCmd.Parameters.Add(parMaNXB);

var reader = sqlCmd.ExecuteReader();

txtMaNXB.Text = txtTenNXB.Text = txtDiaChi.Text = "";

if (reader.Read())

{

string \_maNXB = reader.GetString(0);

string tenNXB = reader.GetString(1);

string diaChi = reader.GetString(2);

txtMaNXB.Text = \_maNXB;

txtTenNXB.Text = tenNXB;

txtDiaChi.Text = diaChi;

}

reader.Close();

DongKetNoi();

}

private void btnThemDL\_Click(object? sender, EventArgs e)

{

string maNXB = txtMaNXB.Text.Trim();

string tenNXB = txtTenNXB.Text.Trim();

string diaChi = txtDiaChi.Text.Trim();

if (string.IsNullOrEmpty(maNXB) || string.IsNullOrEmpty(tenNXB) || string.IsNullOrEmpty(diaChi))

{

MessageBox.Show("Vui lòng nhập đầy đủ thông tin!");

return;

}

MoKetNoi();

var sqlCmd = new Microsoft.Data.SqlClient.SqlCommand();

sqlCmd.CommandType = CommandType.StoredProcedure;

sqlCmd.CommandText = "ThemNXB";

sqlCmd.Connection = sqlCon;

var parMa = new Microsoft.Data.SqlClient.SqlParameter("@maNXB", System.Data.SqlDbType.Char);

parMa.Value = maNXB;

var parTen = new Microsoft.Data.SqlClient.SqlParameter("@tenNXB", System.Data.SqlDbType.NVarChar);

parTen.Value = tenNXB;

var parDiaChi = new Microsoft.Data.SqlClient.SqlParameter("@diaChi", System.Data.SqlDbType.NVarChar);

parDiaChi.Value = diaChi;

sqlCmd.Parameters.Add(parMa);

sqlCmd.Parameters.Add(parTen);

sqlCmd.Parameters.Add(parDiaChi);

try

{

sqlCmd.ExecuteNonQuery();

MessageBox.Show("Thêm nhà xuất bản thành công!");

HienThiDanhSachNXB();

txtMaNXB.Text = txtTenNXB.Text = txtDiaChi.Text = "";

}

catch (Exception ex)

{

MessageBox.Show("Lỗi: " + ex.Message);

}

finally

{

DongKetNoi();

}

}

public Form1()

{

InitializeComponent();

this.Load += Form1\_Load;

this.lsvDanhSach.SelectedIndexChanged += lsvDanhSach\_SelectedIndexChanged;

this.btnThemDL.Click += btnThemDL\_Click;

}

}

}

TH2: Tạo form2 với giao diện sau:

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Nội dung file form2.cs:

using Microsoft.Data.SqlClient;

using System.Data;

namespace bai8

{

public partial class Form2 : Form

{

string strCon = @"Server=DUNGX;Database=QuanLyBanSach;User Id=sa;Password=Admin@12345;TrustServerCertificate=True;";

SqlConnection? sqlCon = null;

private void MoKetNoi()

{

if (sqlCon == null)

{

sqlCon = new SqlConnection(strCon);

}

if (sqlCon.State == ConnectionState.Closed)

{

sqlCon.Open();

}

}

private void DongKetNoi()

{

if (sqlCon != null && sqlCon.State == ConnectionState.Open)

{

sqlCon.Close();

}

}

private void HienThiDanhSachNXB()

{

MoKetNoi();

var sqlCmd = new SqlCommand();

sqlCmd.CommandType = CommandType.Text;

sqlCmd.CommandText = "SELECT NXB, tenNXB, diaChi FROM NhaXuatBan ORDER BY NXB";

sqlCmd.Connection = sqlCon;

var reader = sqlCmd.ExecuteReader();

lsvDanhSach.Items.Clear();

while (reader.Read())

{

string maNXB = reader.GetString(0);

string tenNXB = reader.GetString(1);

string diaChi = reader.GetString(2);

ListViewItem lvi = new ListViewItem(maNXB);

lvi.SubItems.Add(tenNXB);

lvi.SubItems.Add(diaChi);

lsvDanhSach.Items.Add(lvi);

}

reader.Close();

DongKetNoi();

}

private void Form2\_Load(object? sender, EventArgs e)

{

HienThiDanhSachNXB();

}

private void lsvDanhSach\_SelectedIndexChanged(object? sender, EventArgs e)

{

if (lsvDanhSach.SelectedItems.Count == 0) return;

ListViewItem lvi = lsvDanhSach.SelectedItems[0];

string maNXB = lvi.SubItems[0].Text;

HienThiThongTinNXBTheoMa(maNXB);

}

private void HienThiThongTinNXBTheoMa(string maNXB)

{

MoKetNoi();

var sqlCmd = new SqlCommand();

sqlCmd.CommandType = CommandType.Text;

sqlCmd.CommandText = "SELECT NXB, tenNXB, diaChi FROM NhaXuatBan WHERE NXB = @NXB";

sqlCmd.Connection = sqlCon;

var parMaNXB = new SqlParameter("@NXB", SqlDbType.NVarChar);

parMaNXB.Value = maNXB;

sqlCmd.Parameters.Add(parMaNXB);

var reader = sqlCmd.ExecuteReader();

txtMaNXB.Text = txtTenNXB.Text = txtDiaChi.Text = "";

if (reader.Read())

{

string \_maNXB = reader.GetString(0);

string tenNXB = reader.GetString(1);

string diaChi = reader.GetString(2);

txtMaNXB.Text = \_maNXB;

txtTenNXB.Text = tenNXB;

txtDiaChi.Text = diaChi;

}

reader.Close();

DongKetNoi();

}

private void btnCapNhatThongTin\_Click(object? sender, EventArgs e)

{

string maNXB = txtMaNXB.Text.Trim();

string tenNXB = txtTenNXB.Text.Trim();

string diaChi = txtDiaChi.Text.Trim();

if (string.IsNullOrEmpty(maNXB) || string.IsNullOrEmpty(tenNXB) || string.IsNullOrEmpty(diaChi))

{

MessageBox.Show("Vui lòng nhập đầy đủ thông tin!");

return;

}

MoKetNoi();

var sqlCmd = new SqlCommand();

sqlCmd.CommandType = CommandType.Text;

sqlCmd.CommandText = "UPDATE NhaXuatBan SET tenNXB = @tenNXB, diaChi = @diaChi WHERE NXB = @NXB";

sqlCmd.Connection = sqlCon;

var parMa = new SqlParameter("@NXB", SqlDbType.NVarChar);

parMa.Value = maNXB;

var parTen = new SqlParameter("@tenNXB", SqlDbType.NVarChar);

parTen.Value = tenNXB;

var parDiaChi = new SqlParameter("@diaChi", SqlDbType.NVarChar);

parDiaChi.Value = diaChi;

sqlCmd.Parameters.Add(parMa);

sqlCmd.Parameters.Add(parTen);

sqlCmd.Parameters.Add(parDiaChi);

try

{

int rowsAffected = sqlCmd.ExecuteNonQuery();

if (rowsAffected > 0)

{

MessageBox.Show("Cập nhật nhà xuất bản thành công!");

HienThiDanhSachNXB();

txtMaNXB.Text = txtTenNXB.Text = txtDiaChi.Text = "";

}

else

{

MessageBox.Show("Không tìm thấy nhà xuất bản cần cập nhật!");

}

}

catch (Exception ex)

{

MessageBox.Show("Lỗi: " + ex.Message);

}

finally

{

DongKetNoi();

}

}

public Form2()

{

InitializeComponent();

this.Load += Form2\_Load;

this.lsvDanhSach.SelectedIndexChanged += lsvDanhSach\_SelectedIndexChanged;

this.btnCapNhatThongTin.Click += btnCapNhatThongTin\_Click;

}

}

}

TH3:

Tạo form 3 có giao diện như sau:

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Nội dung của file Form3.cs:

using Microsoft.Data.SqlClient;

using System.Data;

namespace bai8

{

public partial class Form3 : Form

{

string strCon = @"Server=DUNGX;Database=QuanLyBanSach;User Id=sa;Password=Admin@12345;TrustServerCertificate=True;";

SqlConnection? sqlCon = null;

private void MoKetNoi()

{

if (sqlCon == null)

{

sqlCon = new SqlConnection(strCon);

}

if (sqlCon.State == ConnectionState.Closed)

{

sqlCon.Open();

}

}

private void DongKetNoi()

{

if (sqlCon != null && sqlCon.State == ConnectionState.Open)

{

sqlCon.Close();

}

}

private void HienThiDanhSachNXB()

{

MoKetNoi();

var sqlCmd = new SqlCommand();

sqlCmd.CommandType = CommandType.Text;

sqlCmd.CommandText = "SELECT NXB, tenNXB, diaChi FROM NhaXuatBan ORDER BY NXB";

sqlCmd.Connection = sqlCon;

var reader = sqlCmd.ExecuteReader();

lsvDanhSach.Items.Clear();

while (reader.Read())

{

string maNXB = reader.GetString(0);

string tenNXB = reader.GetString(1);

string diaChi = reader.GetString(2);

ListViewItem lvi = new ListViewItem(maNXB);

lvi.SubItems.Add(tenNXB);

lvi.SubItems.Add(diaChi);

lsvDanhSach.Items.Add(lvi);

}

reader.Close();

DongKetNoi();

}

private void Form3\_Load(object? sender, EventArgs e)

{

HienThiDanhSachNXB();

}

private void btnXoaDuLieu\_Click(object? sender, EventArgs e)

{

if (lsvDanhSach.SelectedItems.Count == 0)

{

MessageBox.Show("Vui lòng chọn nhà xuất bản cần xóa!");

return;

}

ListViewItem lvi = lsvDanhSach.SelectedItems[0];

string maNXB = lvi.SubItems[0].Text;

string tenNXB = lvi.SubItems[1].Text;

DialogResult result = MessageBox.Show($"Bạn có chắc chắn muốn xóa nhà xuất bản '{tenNXB}'?", "Xác nhận xóa", MessageBoxButtons.YesNo, MessageBoxIcon.Question);

if (result == DialogResult.No)

{

return;

}

MoKetNoi();

var sqlCmd = new SqlCommand();

sqlCmd.CommandType = CommandType.Text;

sqlCmd.CommandText = "DELETE FROM NhaXuatBan WHERE NXB = @NXB";

sqlCmd.Connection = sqlCon;

var parMaNXB = new SqlParameter("@NXB", SqlDbType.NVarChar);

parMaNXB.Value = maNXB;

sqlCmd.Parameters.Add(parMaNXB);

try

{

int rowsAffected = sqlCmd.ExecuteNonQuery();

if (rowsAffected > 0)

{

MessageBox.Show("Xóa nhà xuất bản thành công!");

HienThiDanhSachNXB();

}

else

{

MessageBox.Show("Không tìm thấy nhà xuất bản cần xóa!");

}

}

catch (Exception ex)

{

MessageBox.Show("Lỗi: " + ex.Message);

}

finally

{

DongKetNoi();

}

}

public Form3()

{

InitializeComponent();

this.Load += Form3\_Load;

this.btnXoaDuLieu.Click += btnXoaDuLieu\_Click;

}

}

}