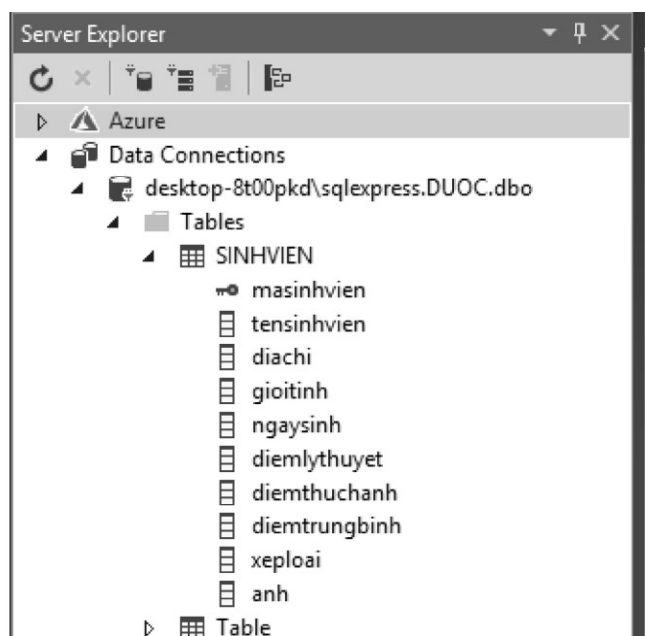


TẠO CƠ SỞ DỮ LIỆU



CHÚ Ý ĐỐI TƯỢNG KẾT NỐI CSDL

openFileDialog

imageList

bindingSource

dUOCDataSet

CÁC THUỘC TÍNH CSDL

dbo.SINHVIEN [Design] Form1.cs Form1.cs [Design]

Update Script File: dbo.SINHVIEN.sql

	Name	Data Type	Allow Nulls	Default
	masinhvien	nchar(10)	<input type="checkbox"/>	
	tensinhvien	nvarchar(30)	<input checked="" type="checkbox"/>	
	diachi	nvarchar(50)	<input checked="" type="checkbox"/>	
	gioitinh	nchar(5)	<input checked="" type="checkbox"/>	
	ngaysinh	datetime	<input checked="" type="checkbox"/>	
	diemlythuyet	nchar(5)	<input checked="" type="checkbox"/>	
	diemthuchanh	nchar(5)	<input checked="" type="checkbox"/>	
	diemtrungbinh	nchar(5)	<input checked="" type="checkbox"/>	
	xeploai	nchar(10)	<input checked="" type="checkbox"/>	
	anh	nvarchar(100)	<input checked="" type="checkbox"/>	

Design T-SQL

```
1 CREATE TABLE [dbo].[SINHVIEN] (  
2     [masinhvien] NCHAR (10) NOT NULL,  
3     [tensinhvien] NVARCHAR (30) NULL,  
4     [diachi] NVARCHAR (50) NULL,  
5     [gioitinh] NCHAR (5) NULL,  
6     [ngaysinh] DATETIME NULL,  
7     [diemlythuyet] NCHAR (5) NULL,  
8     [diemthuchanh] NCHAR (5) NULL,  
9     [diemtrungbinh] NCHAR (5) NULL,  
10    [xeploai] NCHAR (10) NULL,  
11    [anh] NVARCHAR (100) NULL,  
12    PRIMARY KEY CLUSTERED ([masinhvien] ASC)  
13 );  
--
```

TẠO CHUỖI KẾT NỐI

```
public static SqlConnection connect = new  
SqlConnection(quan_ly_sinh_vien.Properties.Settings.Default.DUOCConnectionString);
```

KHAI BÁO THÊM CÁC BIẾN

```
string str, sql_view, path_image;  
int k;
```

ĐƯA DỮ LIỆU LÊN DATAGRIDVIEW

```
private void View_database(string sql){  
    try{  
        connect.Open();  
        SqlCommand command = new SqlCommand(sql, connect);  
        SqlDataAdapter data_adapter = new SqlDataAdapter(command);
```

```

        DataTable data_table = new DataTable();
        data_adapter.Fill(data_table);
        connect.Close();
        this.dataGridView.DataSource = data_table;
    }catch (Exception) { MessageBox.Show("Error !!!"); }
}

```

THỰC HIỆN QUERY

```

private void Execute_Query(string query){
    try{
        connect.Open();
        SqlCommand sqlCommand = new SqlCommand(query, connect);
        sqlCommand.ExecuteNonQuery();
        connect.Close();
    }
    catch (Exception) { MessageBox.Show("Error !!!"); }
}

```

DƯA DỮ LIỆU LÊN DATAGRIDVIEW

```

private void DataGridView_Click(int Index) {
    str = this.textBox_masinhvien.Text = this.dataGridView.Rows[Index].
                                                Cells[0].Value.ToString();
    this.textBox_tensinhvien.Text = this.dataGridView.
                                                Rows[Index].Cells[1].Value.ToString();
    this.textBox_diachi.Text = this.dataGridView.
                                                Rows[Index].Cells[2].Value.ToString();
    this.comboBox_gioitinh.Text = this.dataGridView.
                                                Rows[Index].Cells[3].Value.ToString();
    int dd = int.Parse(this.dataGridView.Rows[this.dataGridView.CurrentRow.Index].
                                                Cells[4].Value.ToString().Substring(0, 2));
    int mm = int.Parse(this.dataGridView.Rows[this.dataGridView.CurrentRow.Index].
                                                Cells[4].Value.ToString().Substring(3, 2));
    int yyyy = int.Parse(this.dataGridView.Rows[this.dataGridView.CurrentRow.Index].
                                                Cells[4].Value.ToString().Substring(6, 4));
    this.dateTimePicker_ngaysinh.Value = new DateTime(yyyy, mm, dd);
    this.textBox_diemlythuyet.Text = this.dataGridView.
                                                Rows[Index].Cells[5].Value.ToString();
    this.textBox_diemthuchanh.Text = this.dataGridView.
                                                Rows[Index].Cells[6].Value.ToString();
    this.textBox_diemtrungbinh.Text = Math.Round(double.Parse(this.dataGridView.
                                                Rows[Index].Cells[7].Value.ToString()), 2).ToString();
    this.textBox_xeploai.Text = this.dataGridView.
                                                Rows[Index].Cells[8].Value.ToString();
}

```

TÌNH HUỐNG FORM LOAD

```

private void Form1_Load(object sender, EventArgs e){
    sql_view = "SELECT masinhvien, tensinhvien, diachi, gioitinh,
        ngaysinh, diemlythuyet, diemthuchanh, " +
        " (diemlythuyet * 2 + diemthuchanh) / 3 AS diemtrungbinh, CASE" +
        " WHEN (diemlythuyet * 2 + diemthuchanh) / 3 > 8 THEN N'Giỏi'" +
        " WHEN (diemlythuyet * 2 + diemthuchanh) / 3 > 7 THEN N'Khá'" +
        " WHEN (diemlythuyet * 2 + diemthuchanh) / 3 > 5 THEN N'Trung bình'" +
        " ELSE N'Yếu' END AS xeploai, anh FROM SINHVIEN";
    View_database(sql_view);
    DataGridView_Click(this.dataGridView.CurrentRow.Index);
}

```

KIỂM TRA KHÓA

```

private bool Check_Key(string sql, string key){
    bool ok = false;
    try{
        connect.Open();
        SqlCommand command = new SqlCommand(sql, connect);
        SqlDataReader data = command.ExecuteReader();
        if (data.Read() && (data.GetString(0).ToUpper()
                                                                    == key.ToUpper()))ok = true;
        connect.Close();
    }catch (Exception) { MessageBox.Show("Error !!!"); }
    return ok;
}

```

TẠO MỚI MỘT BẢN GHI

```

private void button_cap_nhat_Click(object sender, EventArgs e){
    string dd = this.dateTimePicker_ngaysinh.Value.Day.ToString();
    string MM = this.dateTimePicker_ngaysinh.Value.Month.ToString();
    string yyyy = this.dateTimePicker_ngaysinh.Value.Year.ToString();
    string key = this.textBox_masinhvien.Text;
    string sql = "SELECT masinhvien FROM SINHVIEN WHERE masinhvien = '"+key+ "'";
    if (this.textBox_masinhvien.Text != "" && !Check_Key(sql, key)){
        string query = "INSERT INTO SINHVIEN VALUES('"
            + this.textBox_masinhvien.Text + "','N'"
            + this.textBox_tensinhvien.Text + "','N'"
            + this.textBox_diachi.Text + "','N'"
            + this.comboBox_gioitinh.Text + "',''"
            + yyyy + "/" + MM + "/" + dd + "',''"
            + this.textBox_diemlythuyet.Text + "',''"
            + this.textBox_diemthuchanh.Text + "',''"
            + path_image + "')";
        Execute_Query(query);
        View_database(sql_view);
        path_image = "";
    }else MessageBox.Show("Khóa rỗng hoặc trùng", "Kiểm tra khóa",
        MessageBoxButtons.OK, MessageBoxIcon.Information);
}

```

XÓA MỘT BẢN GHI

```

private void button_delete_Click(object sender, EventArgs e){
    try{
        if (MessageBox.Show("Bạn chắc chắn xóa bản ghi này ?", "C# Programming",
            MessageBoxButtons.OKCancel, MessageBoxIcon.Question).ToString() == "OK"){
            Execute_Query(@"DELETE FROM SINHVIEN WHERE (masinhvien='"+
                                                                    str + "')");
            View_database(sql_view);
        }
    }catch (Exception) { MessageBox.Show("Error !!!"); }
}

```

SỬA MỘT BẢN GHI

```

private void button_update_Click(object sender, EventArgs e){
    string key = this.textBox_masinhvien.Text;
    string sql = "SELECT masinhvien FROM SINHVIEN WHERE masinhvien = '"+key+ "'";
    if (this.textBox_masinhvien.Text != "" && Check_Key(sql, key)){
        string query = "UPDATE SINHVIEN SET tensinhvien=N'"
            +this.textBox_tensinhvien.Text
            +"',diachi=N'" +this.textBox_diachi.Text
            +"',gioitinh=N'" + this.comboBox_gioitinh.Text
            +"',diemlythuyet ='"+ this.textBox_diemlythuyet.Text

```

```

        + "", diemthuchanh = '" + this.textBox_diemthuchanh.Text
        + "', anh = '" + this.openFileDialog.FileName
        + "' WHERE (masinhvien = '" + this.textBox_masinhvien.Text + "')";
        Execute_Query(query);
        View_database(sql_view);
    }else MessageBox.Show("Khóa rỗng hoặc không hợp lệ", "Kiểm tra khóa",
        MessageBoxButtons.OK, MessageBoxIcon.Information);
}

```

TÌNH HUỐNG CLICK LÊN DATAGRIDVIEW

```

private void dataGridView_CellClick(object sender, DataGridViewCellEventArgs e){
    DataGridView_Click(this.dataGridView.CurrentRow.Index);
}

```

ĐƯA CON TRỎ TRONG GRIDVIEW ĐẾN BẢN GHI KẾ TIẾP

```

private void button_next_Click(object sender, EventArgs e){
    if (k < this.dataGridView.RowCount - 1){
        k = dataGridView.CurrentRow.Index + 1;
        this.dataGridView.CurrentCell = this.dataGridView.Rows[k].Cells[0];
        this.DataGridView_Click(k);
    }
}

```

ĐƯA CON TRỎ TRONG GRIDVIEW ĐẾN BẢN GHI TRƯỚC

```

private void button_previous_Click(object sender, EventArgs e){
    if (k > 0){
        k = dataGridView.CurrentRow.Index - 1;
        this.dataGridView.CurrentCell = this.dataGridView.Rows[k].Cells[0];
        this.DataGridView_Click(k);
    }
}

```

ĐƯA CON TRỎ TRONG GRIDVIEW ĐẾN BẢN GHI ĐẦU

```

private void button_first_Click(object sender, EventArgs e){
    k = 0;
    this.dataGridView.CurrentCell = this.dataGridView.Rows[k].Cells[0];
    this.DataGridView_Click(k);
}

```

ĐƯA CON TRỎ TRONG GRIDVIEW ĐẾN BẢN GHI CUỐI

```

private void button_last_Click(object sender, EventArgs e){
    k = this.dataGridView.RowCount - 1;
    this.dataGridView.CurrentCell = this.dataGridView.Rows[k].Cells[0];
    this.DataGridView_Click(k);
}

```

ĐƯA ẢNH LÊN ĐỐI TƯỢNG IMAGE

```

private void button_anh_Click(object sender, EventArgs e){
    this.openFileDialog.ShowDialog();
    path_image = this.openFileDialog.FileName;
    if (path_image != "openFileDialog")
        this.pictureBox.Image = Image.FromFile(path_image);
}

```