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using System;
// add the liabratory
using System.Data.SqlClient;
using System.Windows.Forms;

namespace Student_InFo
{
    public partial class Form1 : Form
    {
        // instance var of the form
        private DialogResult s_pic;
        private SqlConnection connection;
        private SqlCommand command;
        private SqlDataReader read_data;
        private SqlDataAdapter dataAdapter;
        private System.Data.DataTable dataTable;
        private String query;
        private String pic_Path;
        private const string const_Pic = @"C:\Users\Nabeel\Documents\Visual Studio
2010\Projects\Student_InFo\Student_InFo\Untitled22.png";
        // Init Form
        public Form1()
        {
            InitializeComponent();
            // get the database path
            connection = new SqlConnection(@"Data Source=.\sqlexpress;Initial
Catalog=Student_database;Integrated Security=True;Pooling=False");
            // importanat point
            pictureBox1.Load(const_Pic);
            showTable();
            query = "select isnull(max(Id+1),0) as Id from Information";
            // send this query to the command
            command = getCommand(query);
            // cammand execute
            read_data = command.ExecuteReader();
            if (read_data.Read()) {
                // add the value of id into the text
                ID_textBox.Text = read_data["Id"].ToString();
            }
            closeConnection();
        }
        // open connection and set the sql_Cammand
        private SqlCommand getCommand(String query)
        {
            // open the connection

            connection.Open();
            return new SqlCommand(query, connection);

        }
        // close the connection
        public void closeConnection() {
            //
            connection.Close();
        }
        // used to get the picture
        private void Picture_button_Click(object sender, EventArgs e)

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{
    // it show the list of file on the desktop
    s_pic = this.openFileDialog1.ShowDialog();
    if (s_pic == DialogResult.OK)
    {
        // pic_path
        pic_Path = this.openFileDialog1.FileName;
        // Load the pic on the picture_Box
        pictureBox1.Load(pic_Path);
    }
    else
    {
        // if the Picture not Select this will show the message
        MessageBox.Show("Picture not Select");
    }
}

// New Insertion new query
int Id_plus = 1;
private void Submit_Click(object sender, EventArgs e)
{
    query = "Insert into Information(Id,Name,FName,Age,Barth,Address,Contect,Picture)
values('"+ID_textBox.Text+"','"+Name_textBox.Text+"','"+FName_textBox.Text+"','"+Age_comboBox.T
ext+"','"+DOB_textBox.Text+"','"+Address_textBox.Text+"','"+Contact_textBox.Text+"','"+pic_Path
+"')";
    command = getCommand(query);
    if (command.ExecuteNonQuery() > 0) {
        showTable();
        // show message
        MessageBox.Show("The result is store");
        // know null the reuslt of the text pox
        Id_plus += Convert.ToInt16(ID_textBox.Text);
    }
    closeConnection();
    ID_textBox.Text = Id_plus.ToString();
    Id_plus = 1;
}

// Update_Query
private void Update_Click(object sender, EventArgs e)
{
    query = "update Information set Name = '" + Name_textBox.Text + "',FName =
'"+FName_textBox.Text+"',Age ='"+Age_comboBox.Text+"',Barth='"+DOB_textBox.Text+"',Address =
'"+Address_textBox.Text+"',Contect = '"+Contact_textBox.Text+"', Picture = '" +pic_Path+ "'
where Id =" + ID_textBox.Text;
    command = getCommand(query);
    if (command.ExecuteNonQuery() > 0)
    {
        // show message
        showTable();
        MessageBox.Show("The result is Update");
    }
    closeConnection();
}

// Delete_Query
private void Delete_Click(object sender, EventArgs e)
{
    query = "delete from Information where Id =" + ID_textBox.Text;
    command = getCommand(query);
    if (command.ExecuteNonQuery() > 0)

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    {
        showTable();
        MessageBox.Show("Record is delete");
    }
    closeConnection();
}
// View Result Query
private void View_Click(object sender, EventArgs e)
{
    // get the All information about the Student
    query = "select *from Information where Id =" + ID_textBox.Text;
    command = getCommand(query);
    read_data = command.ExecuteReader();
    if (read_data.Read())
    {
        //Id,Name,FName,Age,Barth,Address,Contect,Picture
        Name_textBox.Text = read_data["Name"].ToString();
        FName_textBox.Text = read_data["FName"].ToString();
        Age_comboBox.Text = read_data["Age"].ToString();
        DOB_textBox.Text = read_data["Barth"].ToString();
        Address_textBox.Text = read_data["Address"].ToString();
        Contact_textBox.Text = read_data["Contect"].ToString();
        pictureBox1.Load(read_data["Picture"].ToString());
    }
    closeConnection();
}
// Clerar_All box
private void Clear_Click(object sender, EventArgs e)
{
    Name_textBox.Clear();
    FName_textBox.Clear();
    Age_comboBox.Text = "";
    DOB_textBox.Clear();
    Address_textBox.Clear();
    Contact_textBox.Clear();
    pictureBox1.Load(const_Pic);
}
// Exit the form
private void Exit_Click(object sender, EventArgs e)
{
    // end the connection and Close the form
    closeConnection();
    Application.Exit();
    //this.Close();
}

// method of show_Table_Result
private void showTable(){

    query = "Select * from Information";

    dataAdapter = new SqlDataAdapter(query, connection);
    dataTable = new System.Data.DataTable();
    dataAdapter.Fill(dataTable);
    dataGridView1.DataSource = dataTable;
    //
}

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private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs e)
{
    DataGridViewRow row = this.dataGridView1.Rows[e.RowIndex];
    ID_textBox.Text = row.Cells["id"].Value.ToString();
    Name_textBox.Text = row.Cells["Name"].Value.ToString();
    FName_textBox.Text = row.Cells["FName"].Value.ToString();
    Age_comboBox.Text = row.Cells["Age"].Value.ToString();
    DOB_textBox.Text = row.Cells["Barth"].Value.ToString();
    Address_textBox.Text = row.Cells["Address"].Value.ToString();
    Contact_textBox.Text = row.Cells["Contect"].Value.ToString();
    pictureBox1.Load(row.Cells["Picture"].Value.ToString());
}

}

}
```