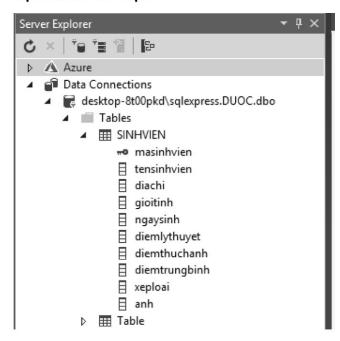


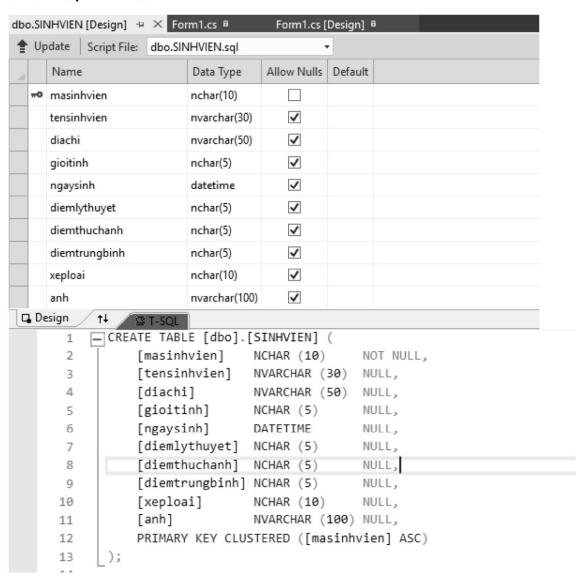
## TẠO CƠ SỞ DỮ LIỆU



# CHÚ Ý ĐỐI TƯỢNG KẾT NỐI CSDL



# CÁC THUỘC TÍNH CSDL



## 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

```
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 !!!"); }
        }
ĐƯA DỮ LIÊU 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);
}
```

```
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 + "'
                            + 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 MÔT BẢN GHI
private void button_delete_Click(object sender, EventArgs e){
    try{
          if (MessageBox.Show("Ban chác 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
```