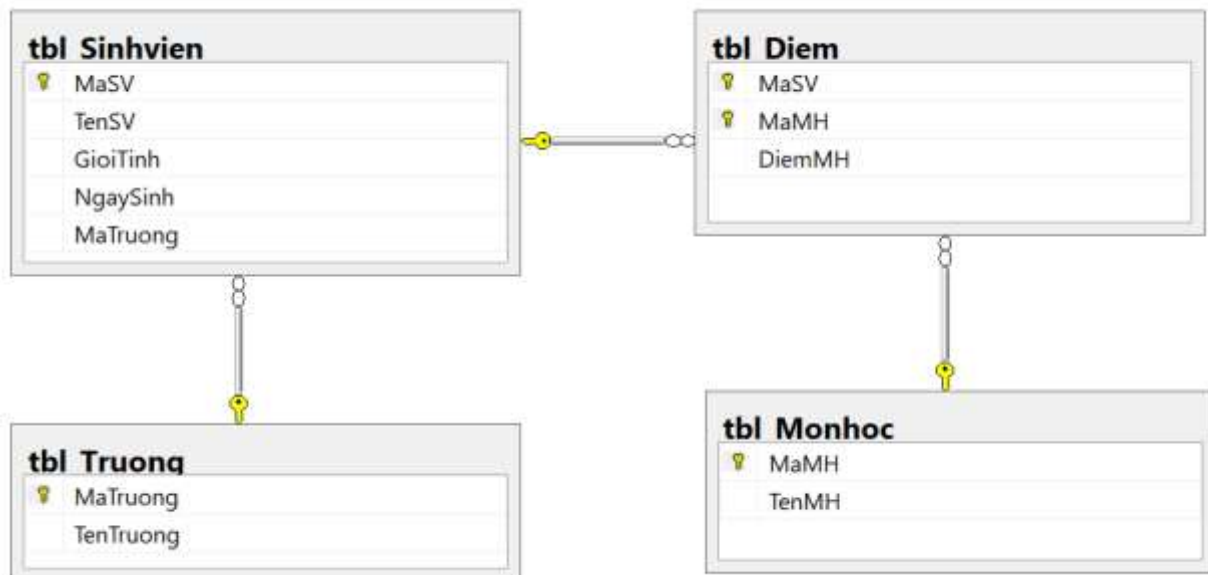


LAB 05 – THỰC HÀNH SQL - ADO

Bài tập 1: Tạo CSDL QL_SINHVIEN



MaTruong	TenTruong
MT01	ĐH Bách Khoa
MT02	ĐH Kinh Tế
MT03	ĐH Sư Phạm
MT04	ĐH Giao Thông VT
MT05	VTCA

MaSV	TenSV	Phai	NgaySinh	MaTruong
SV001	Nguyễn Văn Hùng	Nam	1990-03-12 ...	MT01
SV002	Trần Diệu Nhi	Nữ	1990-06-22 ...	MT02
SV003	Phạm Minh Đăng	Nam	1990-12-09 ...	MT03
SV004	Nguyễn Anh Đào	Nữ	1991-08-12 ...	MT01
SV005	Trần Văn Hưng	Nam	1990-09-12 ...	MT02
.....

MaMH	TenMH
MH01	Thiết kế Web
MH02	Lập trình Web
MH03	ASP.NET
MH04	SQL Server
MH05	HTML và CSS
MH06	Lập trình căn bản
.....

MaSV	MaMH	DiemTB
SV001	MH01	9
SV001	MH02	6.5
SV001	MH03	8.5
SV001	MH04	7
SV002	MH01	8
SV002	MH02	6.8
SV002	MH03	7.5
SV002	MH04	9
SV003	MH01	8
SV003	MH02	8
SV003	MH03	5
SV003	MH04	8
SV004	MH01	8.5
SV004	MH02	8.6
SV004	MH03	5.8
SV004	MH04	8.5
SV005	MH01	7
SV005	MH02	9.6
SV005	MH03	8.8
SV005	MH04	8.5

Hướng dẫn:

```
create database QL_SINHVIEN
```

```
use QL_SINHVIEN
```

```
create table tbl_truong
```

```
(
```

```
MaTruong nvarchar(5) NOT NULL primary key,
```

```
TenTruong nvarchar(50) NOT NULL
```

```
)
```

```
create table tbl_sinhvien
```

```
(
```

```
MaSV nvarchar(5) NOT NULL primary key,
```

```
TenSV nvarchar(50) NOT NULL,
```

GV: TRẦN VŨ ĐẠI

Phai nvarchar(5) NOT NULL,
NgàySinh datetime,
MaTruong nvarchar(5) NOT NULL
)

create table tbl_monhoc
(
MaMH nvarchar(5) NOT NULL primary key,
TenMH nvarchar(50) NOT NULL
)

create table tbl_diem
(
MaSV nvarchar(5) NOT NULL,
MaMH nvarchar(5) NOT NULL,
DiemTB float NOT NULL,
primary key(MaSV, MaMH)
)

ALTER TABLE tbl_sinhvien
add constraint fk_sv_t foreign key (MaTruong) references tbl_Truong (MaTruong)
ALTER TABLE tbl_diem
add constraint fk_d_mh foreign key (MaMH) references tbl_monhoc (MaMH)
ALTER TABLE tbl_diem
add constraint fk_d_sv foreign key (MaSV) references tbl_sinhvien (MaSV)

/* Chèn dữ liệu */

INSERT INTO tbl_truong VALUES ('MT01', N'DH Bách khoa')

INSERT INTO tbl_truong VALUES ('MT02', N'DH Kinh Tế')

INSERT INTO tbl_truong VALUES ('MT03', N'DH Sư Phạm')

INSERT INTO tbl_truong VALUES ('MT04', N'DH Giao Thông VT')

INSERT INTO tbl_truong VALUES ('MT05', N'VTCA')

INSERT INTO tbl_sinhvien VALUES ('SV001', N'Nguyễn Văn Hùng', N'Nam',
'1990-03-12', 'MT01')

INSERT INTO tbl_sinhvien VALUES ('SV002', N'Trần Diệu Nhi', N'Nữ', '1990-
06-22', 'MT02')

INSERT INTO tbl_sinhvien VALUES ('SV003', N'Phạm Minh Đăng', N'Nam',
'1990-12-09', 'MT03')

INSERT INTO tbl_sinhvien VALUES ('SV004', N'Nguyễn Anh Đào', N'Nữ',
'1990-08-12', 'MT01')

INSERT INTO tbl_sinhvien VALUES ('SV005', N'Trần Văn Hưng', N'Nam',
'1990-09-12', 'MT02')

INSERT INTO tbl_monhoc VALUES ('MH01', N'Thiết kế web')

INSERT INTO tbl_monhoc VALUES ('MH02', N'Lập Trình web')

INSERT INTO tbl_monhoc VALUES ('MH03', N'ASP.NET')

INSERT INTO tbl_monhoc VALUES ('MH04', N'SQL Server')

INSERT INTO tbl_monhoc VALUES ('MH05', N'HTML và CSS')

INSERT INTO tbl_monhoc VALUES ('MH06', N'Lập trình căn bản')

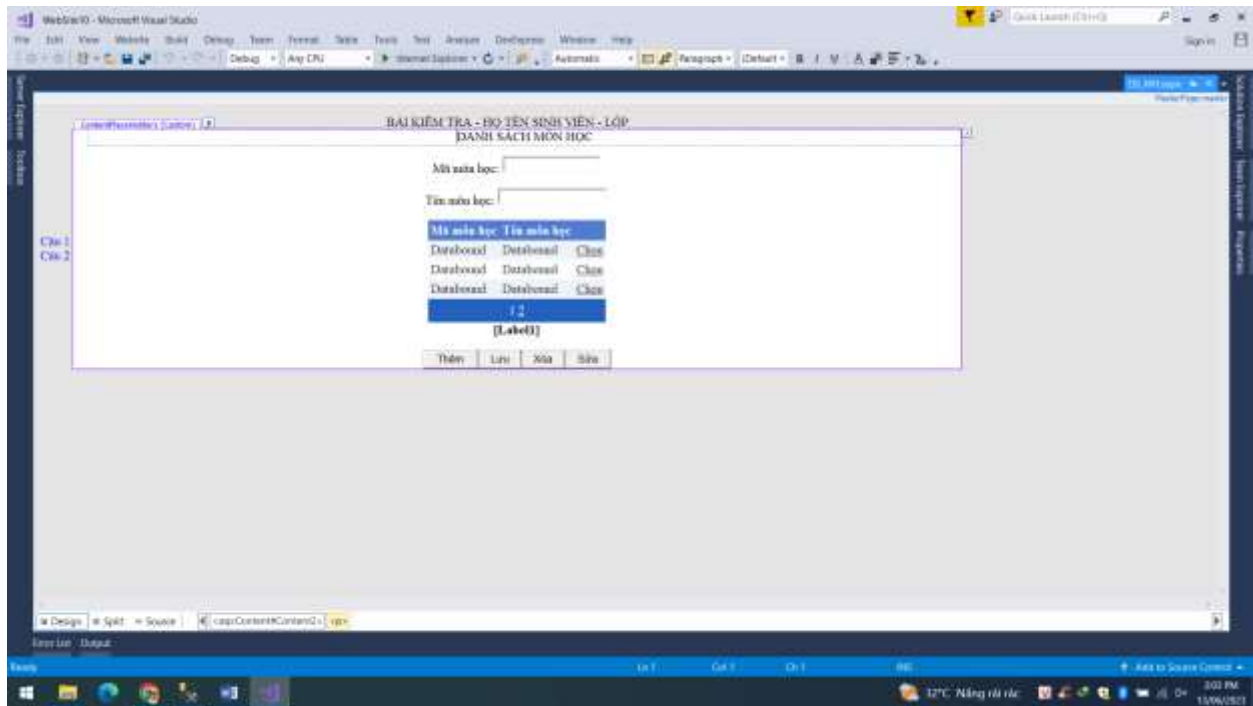
INSERT INTO tbl_diem VALUES ('SV001', 'MH01', 9)

INSERT INTO tbl_diem VALUES ('SV001', 'MH02', 6.5)

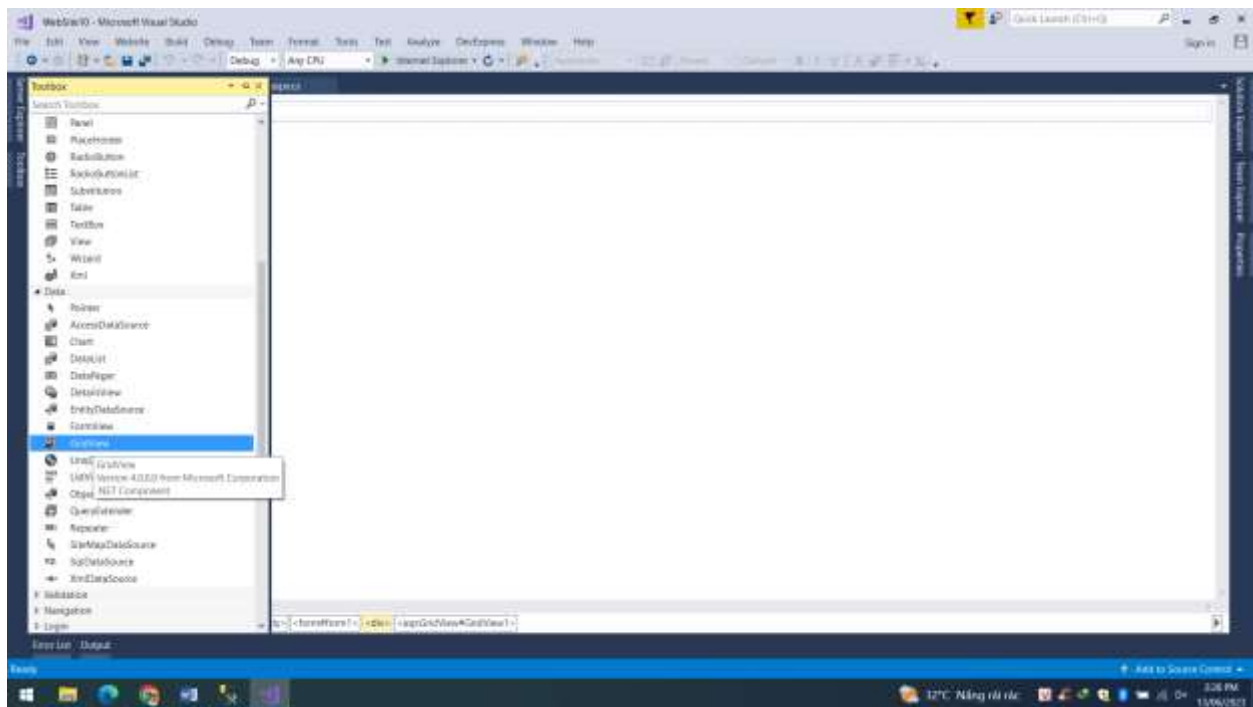
```
INSERT INTO tbl_diem VALUES ('SV001', 'MH03', 8.5)
INSERT INTO tbl_diem VALUES ('SV001', 'MH04', 7)
INSERT INTO tbl_diem VALUES ('SV002', 'MH01', 8)
INSERT INTO tbl_diem VALUES ('SV002', 'MH02', 6.8)
INSERT INTO tbl_diem VALUES ('SV002', 'MH03', 7.5)
INSERT INTO tbl_diem VALUES ('SV002', 'MH04', 9)
INSERT INTO tbl_diem VALUES ('SV003', 'MH01', 8)
INSERT INTO tbl_diem VALUES ('SV003', 'MH02', 8)
INSERT INTO tbl_diem VALUES ('SV003', 'MH03', 5)
INSERT INTO tbl_diem VALUES ('SV003', 'MH04', 8)
INSERT INTO tbl_diem VALUES ('SV004', 'MH01', 8.5)
INSERT INTO tbl_diem VALUES ('SV004', 'MH02', 8.6)
INSERT INTO tbl_diem VALUES ('SV004', 'MH03', 5.8)
INSERT INTO tbl_diem VALUES ('SV004', 'MH04', 8.5)
INSERT INTO tbl_diem VALUES ('SV005', 'MH01', 7)
INSERT INTO tbl_diem VALUES ('SV005', 'MH02', 9.6)
INSERT INTO tbl_diem VALUES ('SV005', 'MH03', 8.8)
INSERT INTO tbl_diem VALUES ('SV005', 'MH04', 8.5)
```

GV: TRẦN VŨ ĐẠI

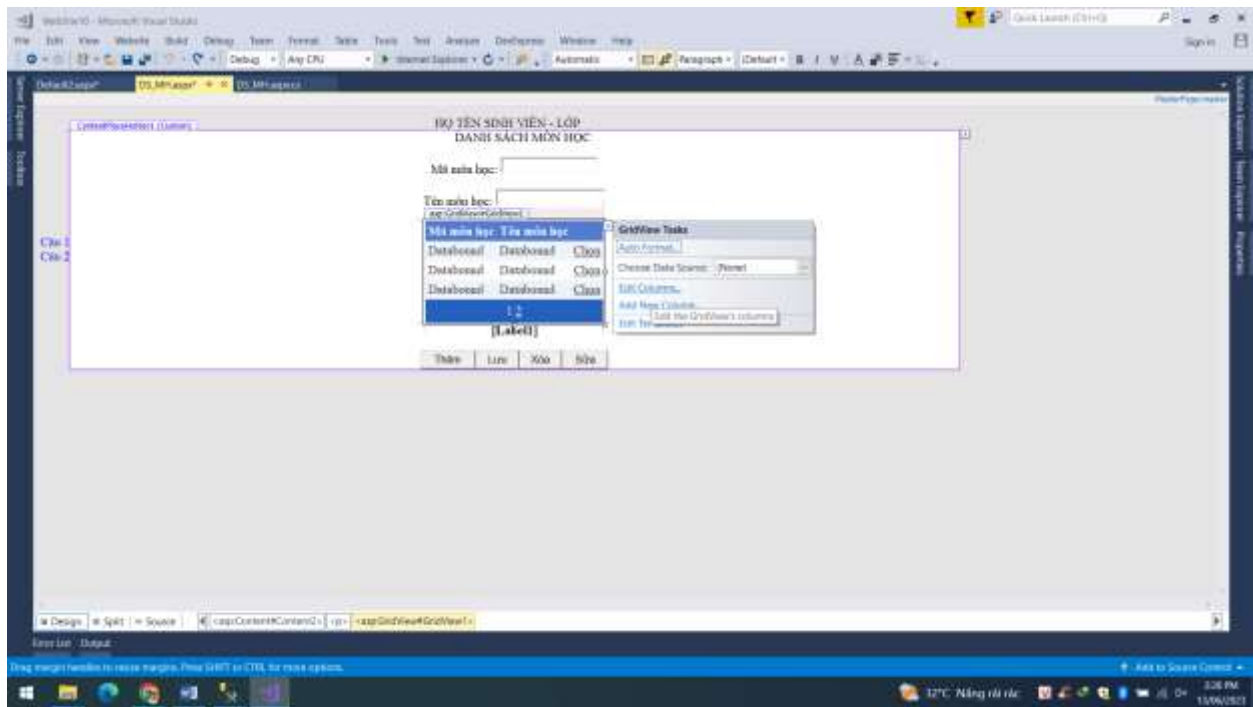
Bài tập 2: Thiết kế trang Web cập nhật Môn học cho CSDL QL_SINHVIEN đã tạo ở trên



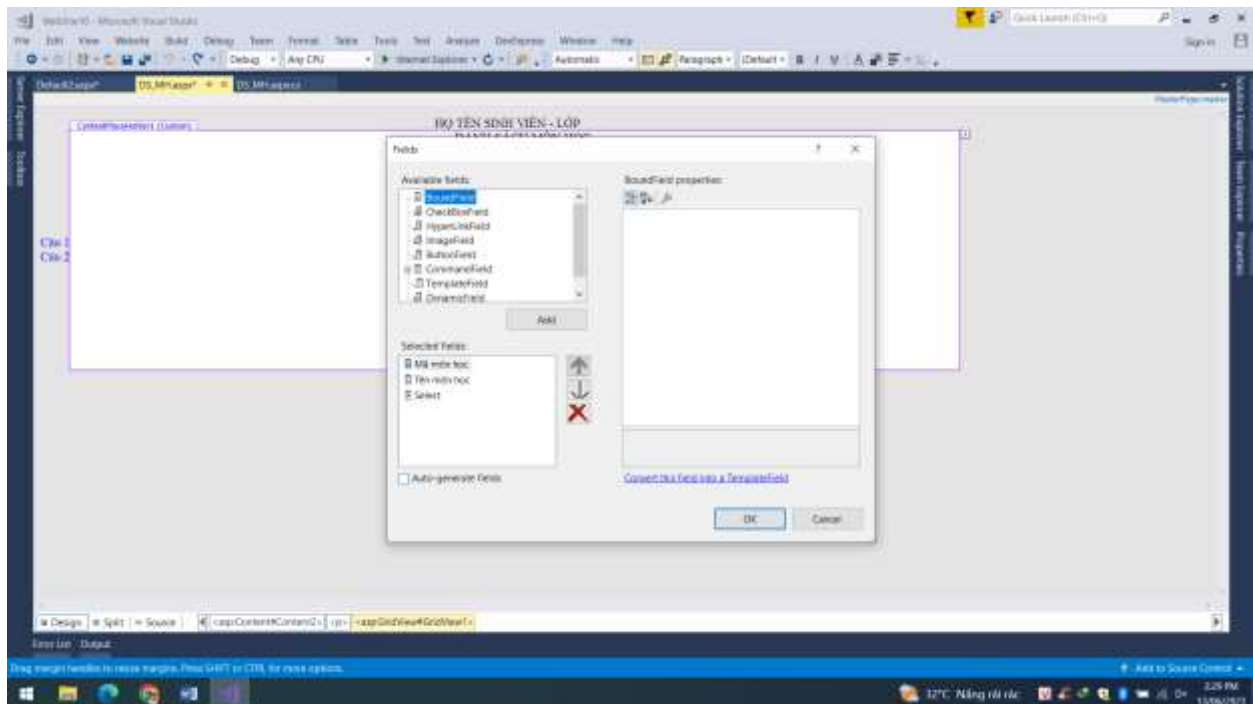
* Định dạng chỗ GridView



GV: TRẦN VŨ ĐẠI

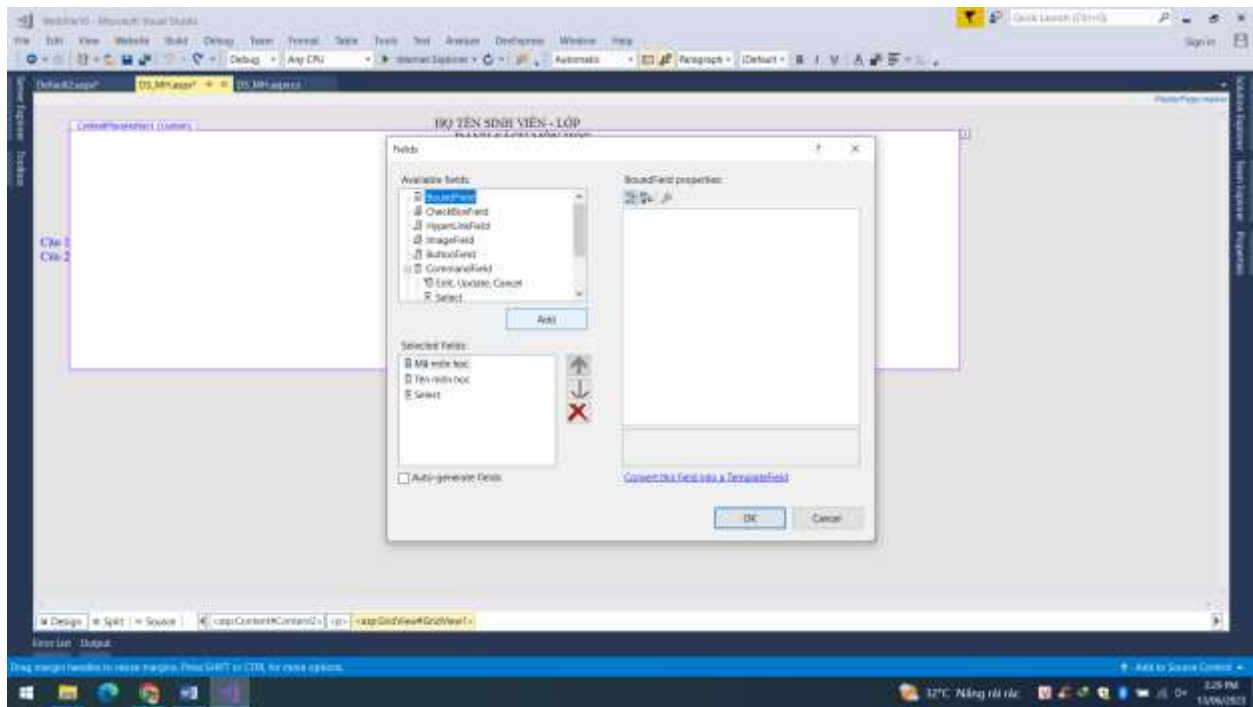


- Bỏ chọn ô check: auto-general

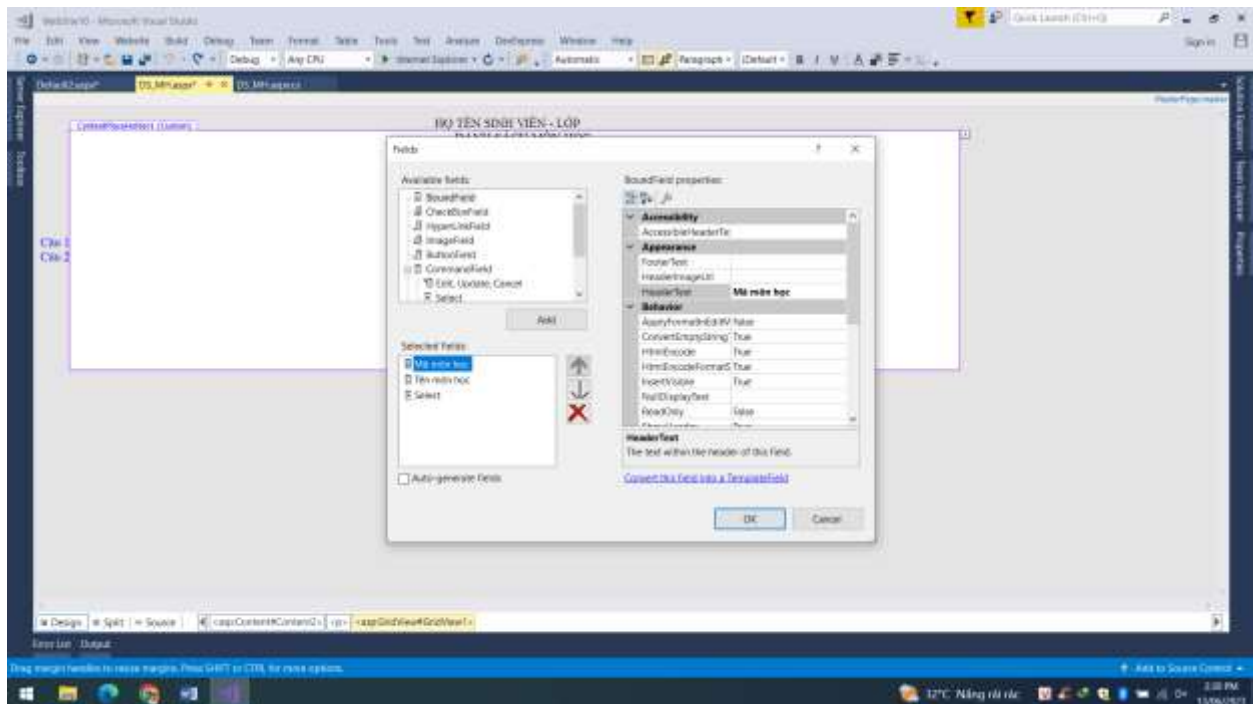


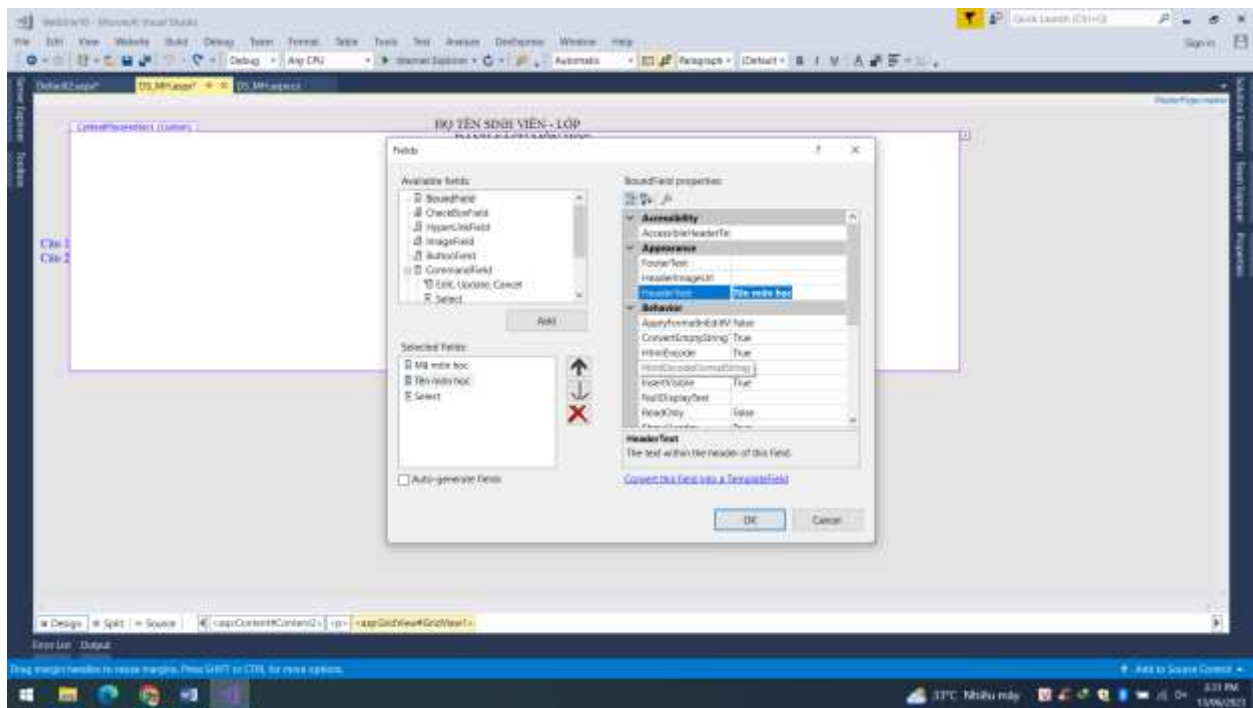
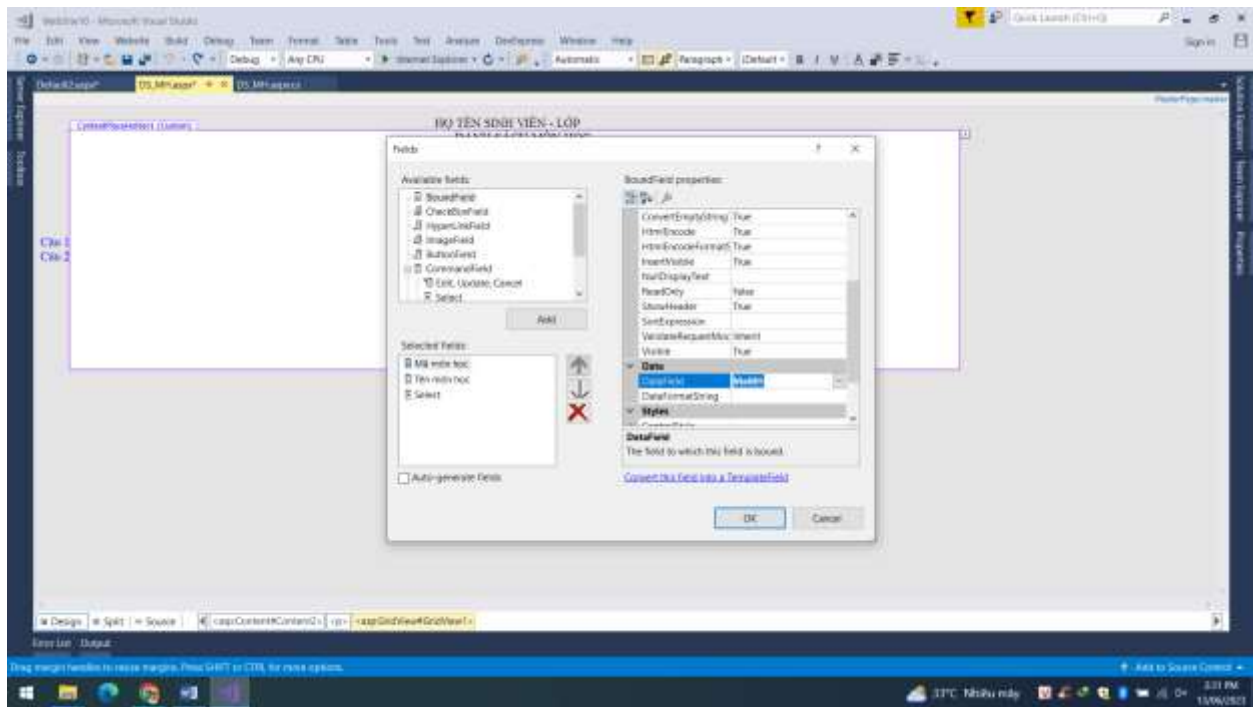
- Đưa 2 cái BoundField và 1 Select

GV: TRẦN VŨ ĐẠI

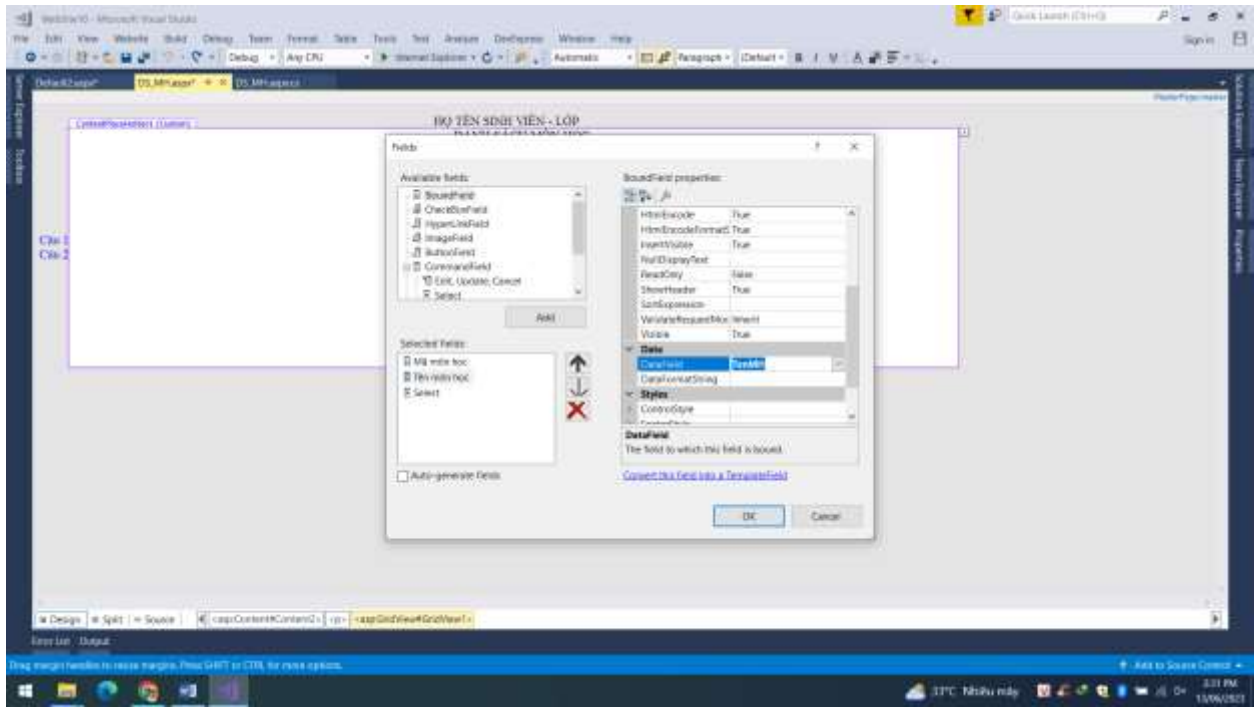


- Mỗi cái BoundField Chọn như sau:

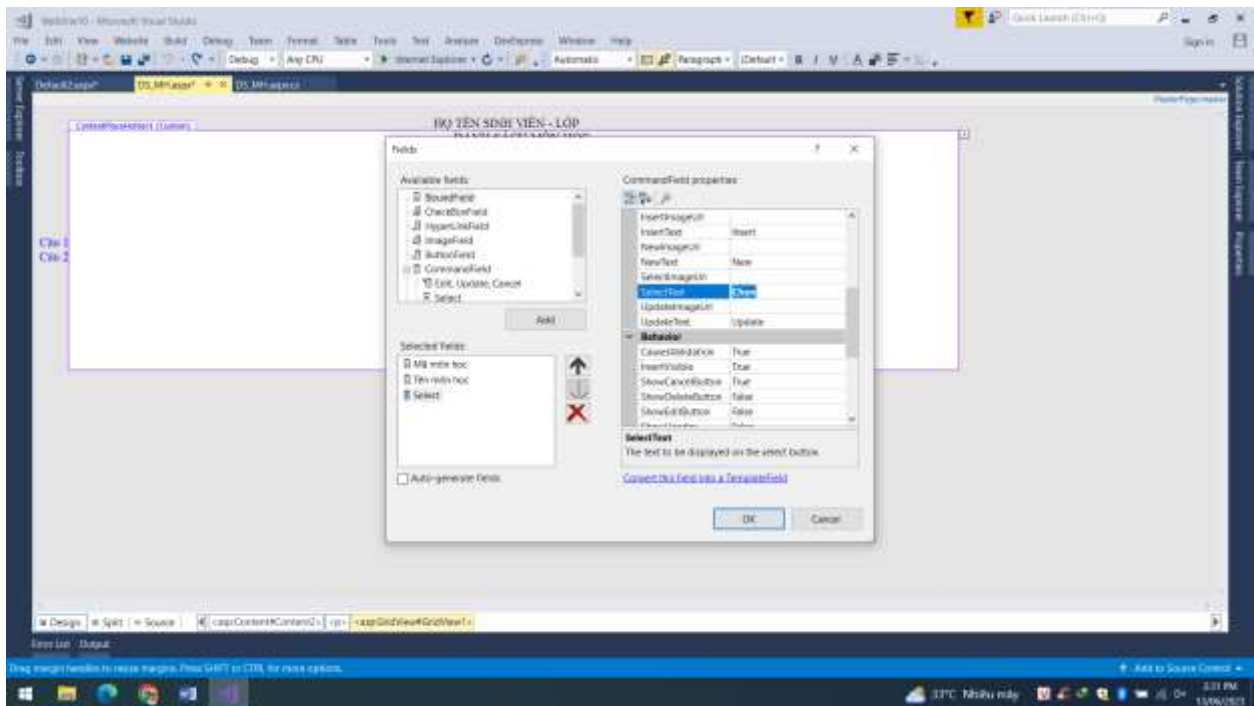




GV: TRẦN VŨ ĐẠI

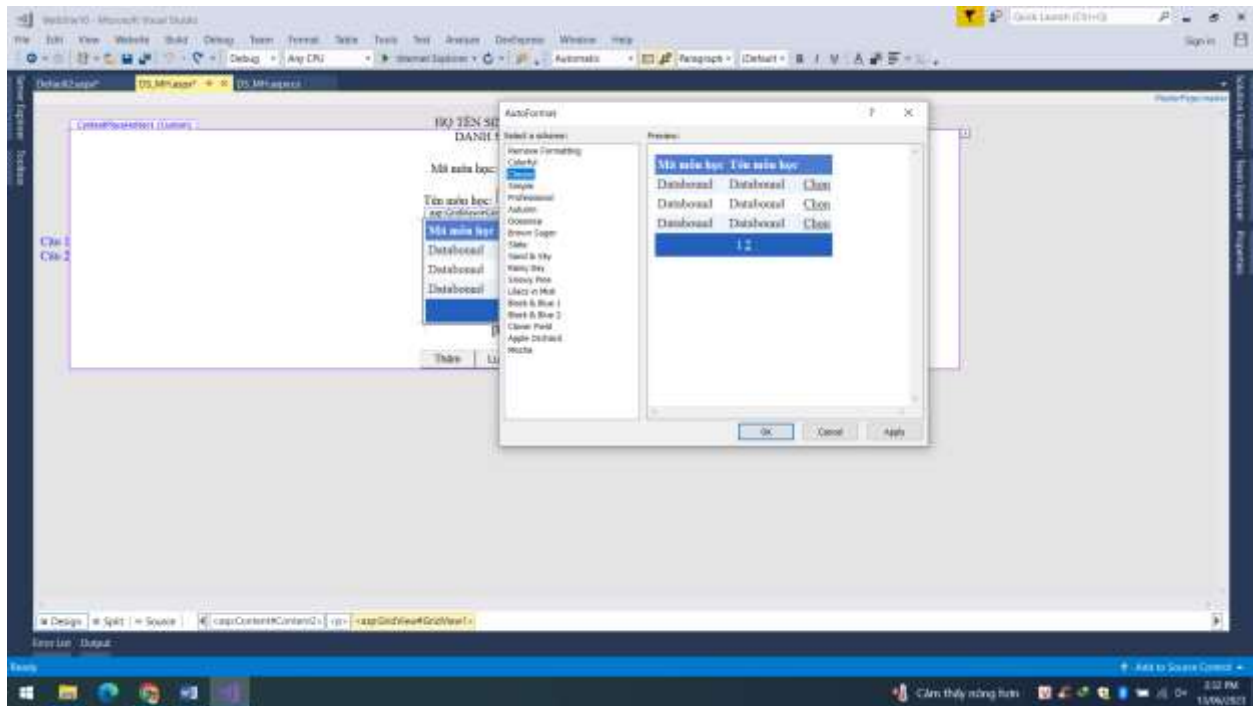
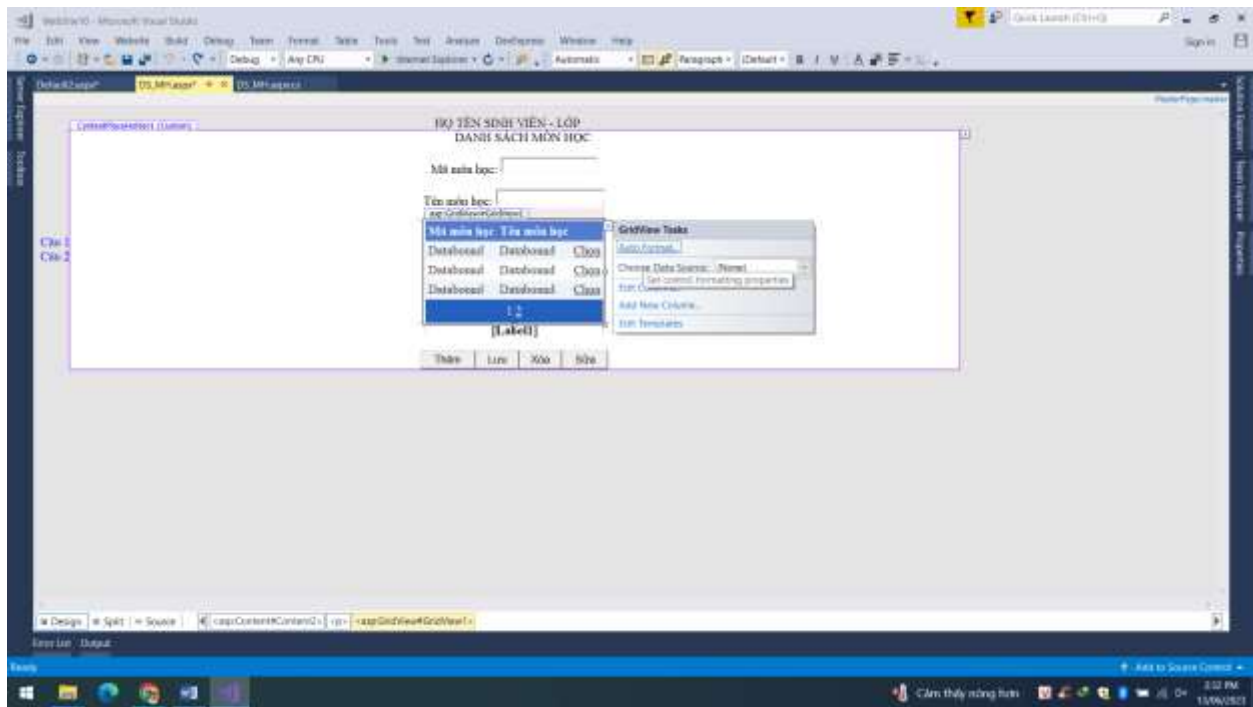


- Chọn Select như sau:

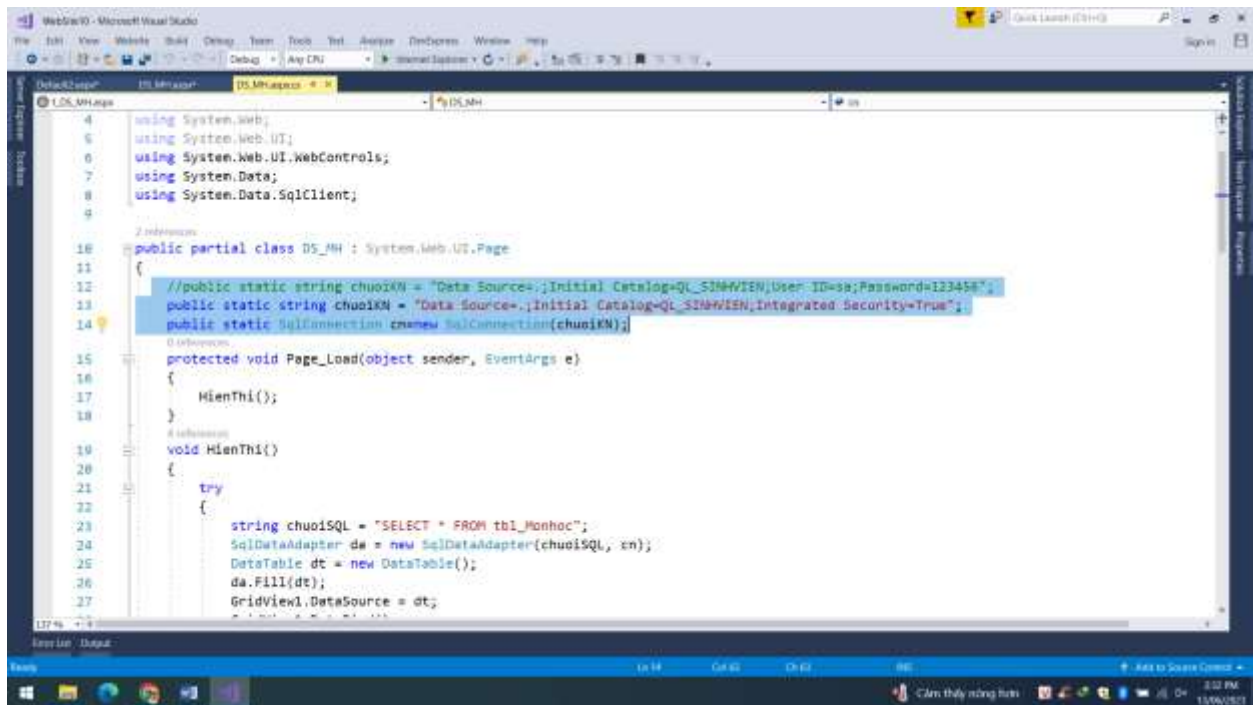


- Định dạng cho GridView:

GV: TRẦN VŨ ĐẠI



- Vào Chương trình:



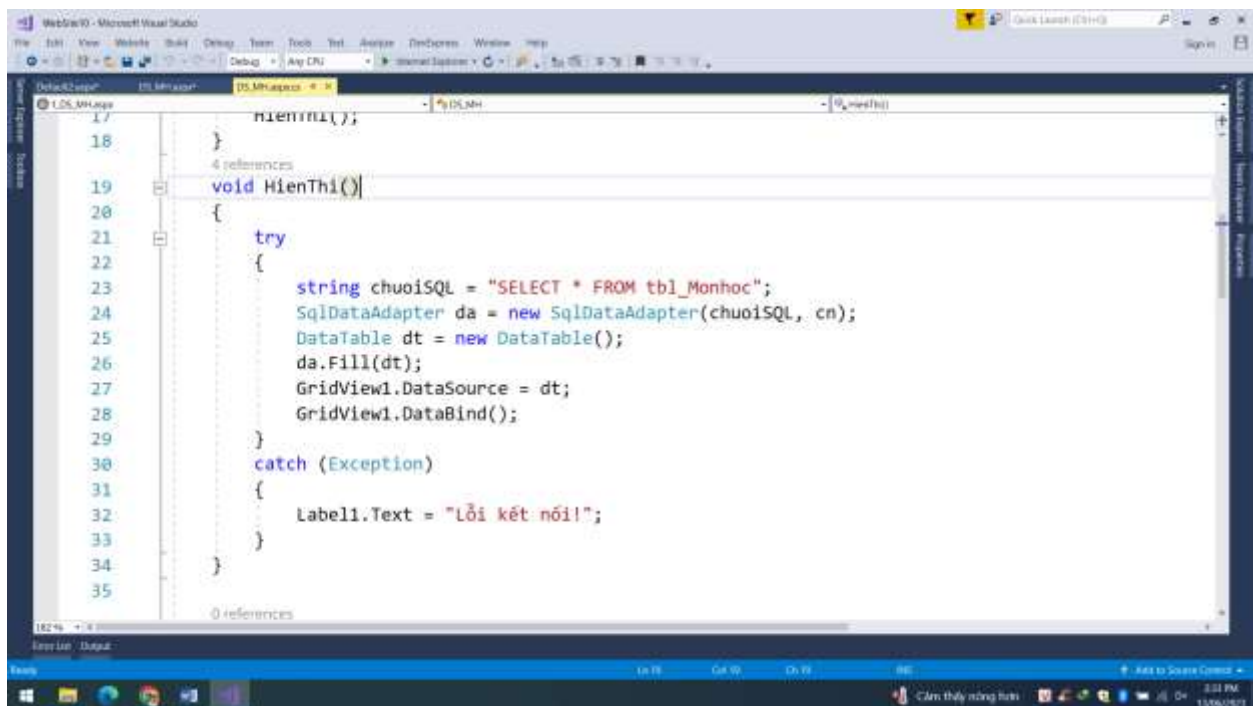
```
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;

public partial class DS_MH : System.Web.UI.Page
{
    //public static string chuoiKN = "Data Source=.;Initial Catalog=QL_SINHVIEN;User ID=sa;Password=123456";
    public static string chuoiKN = "Data Source=.;Initial Catalog=QL_SINHVIEN;Integrated Security=True";
    public static SqlConnection cn = new SqlConnection(chuoiKN);

    protected void Page_Load(object sender, EventArgs e)
    {
        HienThi();
    }

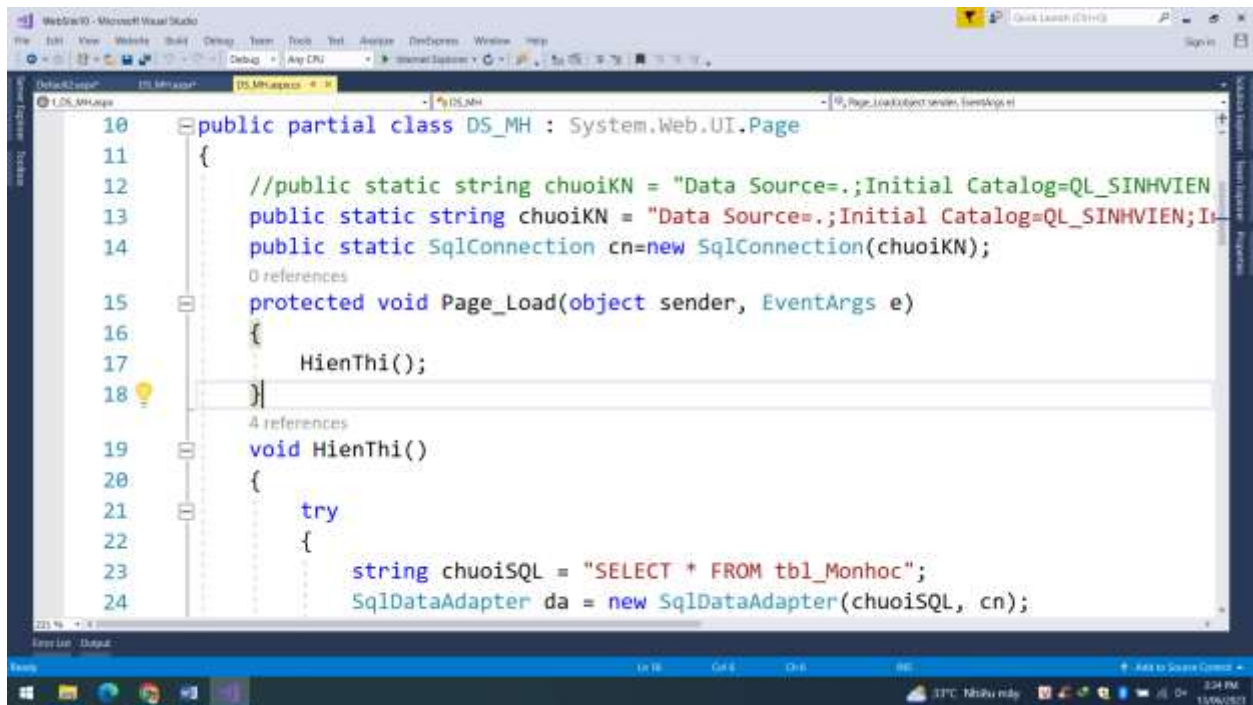
    void HienThi()
    {
        try
        {
            string chuoiSQL = "SELECT * FROM tbl_Monhoc";
            SqlDataAdapter da = new SqlDataAdapter(chuoiSQL, cn);
            DataTable dt = new DataTable();
            da.Fill(dt);
            GridView1.DataSource = dt;
        }
    }
}
```

- Tạo thủ tục Hiển thị:



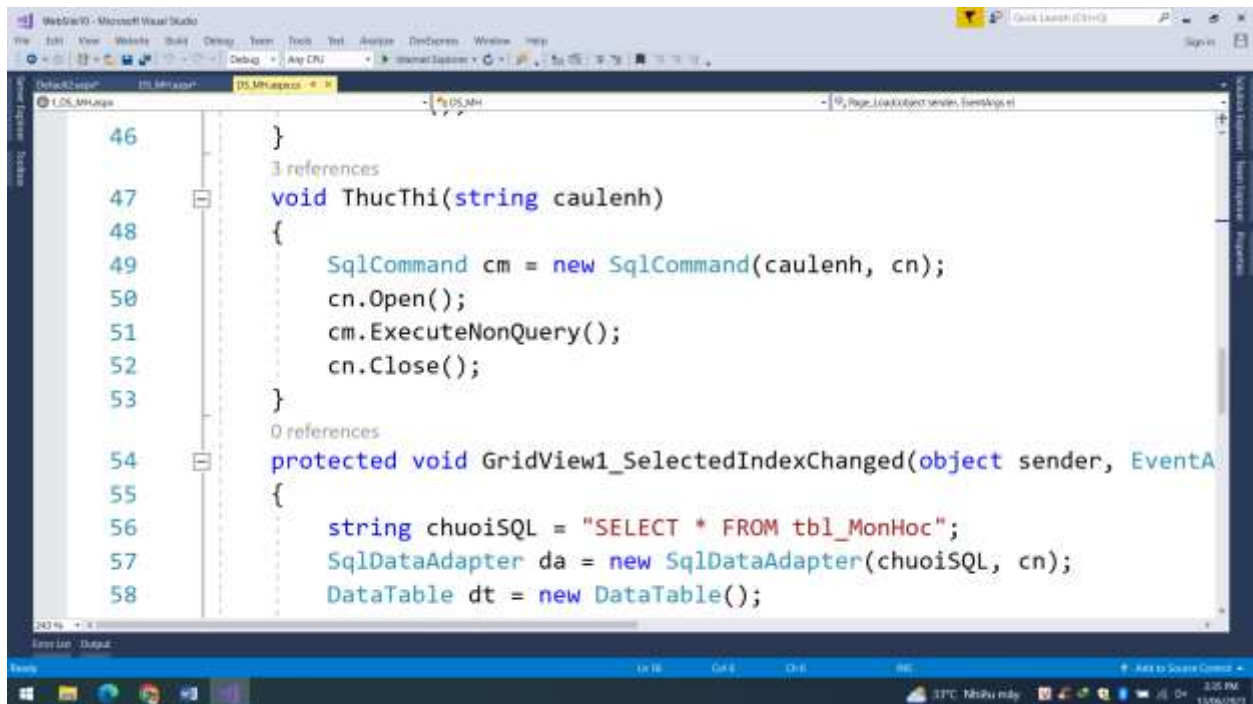
```
void HienThi()
{
    try
    {
        string chuoiSQL = "SELECT * FROM tbl_Monhoc";
        SqlDataAdapter da = new SqlDataAdapter(chuoiSQL, cn);
        DataTable dt = new DataTable();
        da.Fill(dt);
        GridView1.DataSource = dt;
        GridView1.DataBind();
    }
    catch (Exception)
    {
        Label1.Text = "Lỗi kết nối!";
    }
}
```

- Kích đúp vào trang web để vào Form_Load:



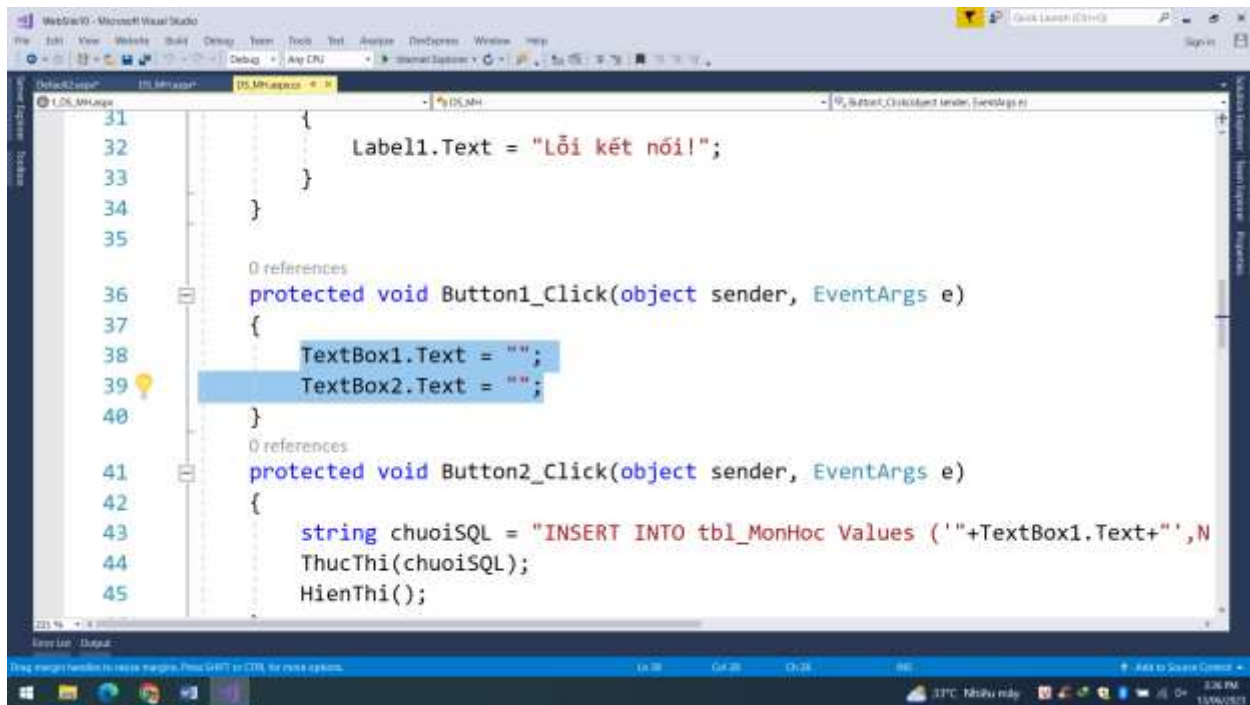
```
10 public partial class DS_MH : System.Web.UI.Page
11 {
12     //public static string chuoiKN = "Data Source=.;Initial Catalog=QL_SINHVIEN;
13     public static string chuoiKN = "Data Source=.;Initial Catalog=QL_SINHVIEN;I
14     public static SqlConnection cn=new SqlConnection(chuoiKN);
15     0 references
16     protected void Page_Load(object sender, EventArgs e)
17     {
18         HienThi();
19     }
20     4 references
21     void HienThi()
22     {
23         try
24         {
25             string chuoiSQL = "SELECT * FROM tbl_Monhoc";
26             SqlDataAdapter da = new SqlDataAdapter(chuoiSQL, cn);
```

- Tạo Thủ tục Thực thi như sau:



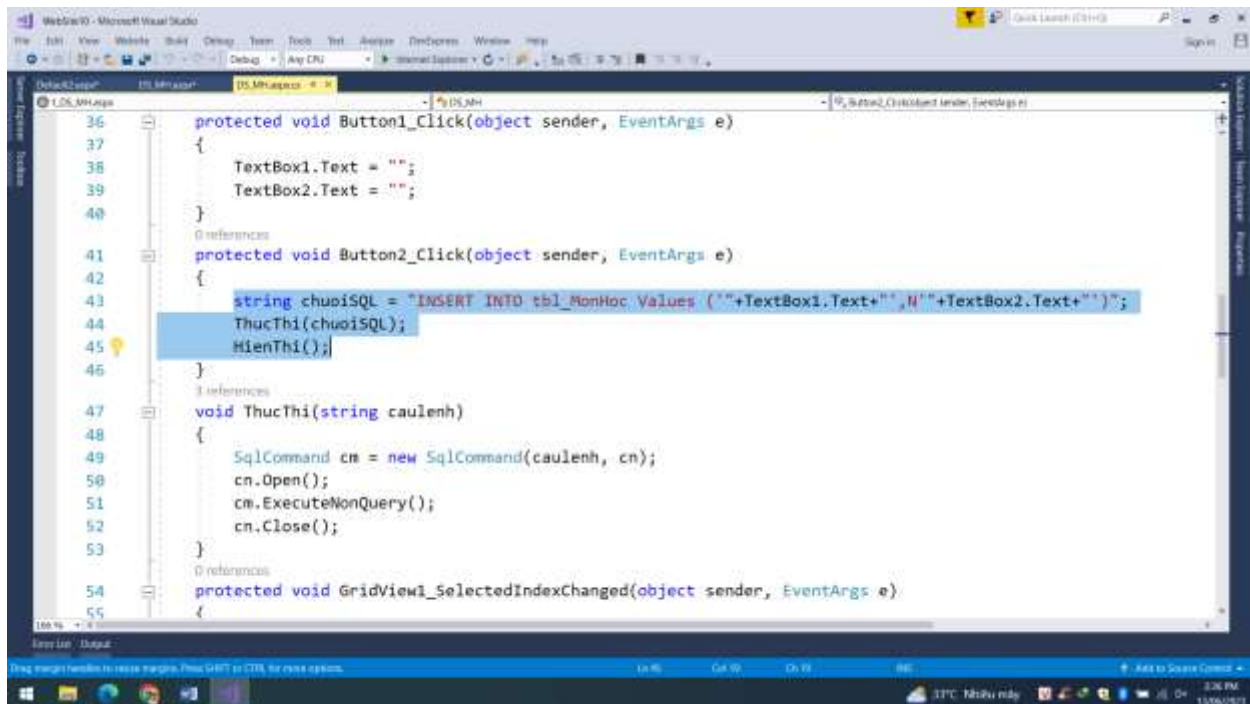
```
46     }
47     3 references
48     void ThucThi(string caulenh)
49     {
50         SqlCommand cm = new SqlCommand(caulenh, cn);
51         cn.Open();
52         cm.ExecuteNonQuery();
53         cn.Close();
54     }
55     0 references
56     protected void GridView1_SelectedIndexChanged(object sender, EventArgs e)
57     {
58         string chuoiSQL = "SELECT * FROM tbl_MonHoc";
59         SqlDataAdapter da = new SqlDataAdapter(chuoiSQL, cn);
60         DataTable dt = new DataTable();
```

- Kích đúp nút THÊM:



```
31 {
32     Label1.Text = "Lỗi kết nối!";
33 }
34 }
35
36 // references
37 protected void Button1_Click(object sender, EventArgs e)
38 {
39     TextBox1.Text = "";
40     TextBox2.Text = "";
41 }
42 // references
43 protected void Button2_Click(object sender, EventArgs e)
44 {
45     string chuoiSQL = "INSERT INTO tbl_MonHoc Values ('"+TextBox1.Text+"',N
46     ThucThi(chuoiSQL);
47     HienThi();
48 }
```

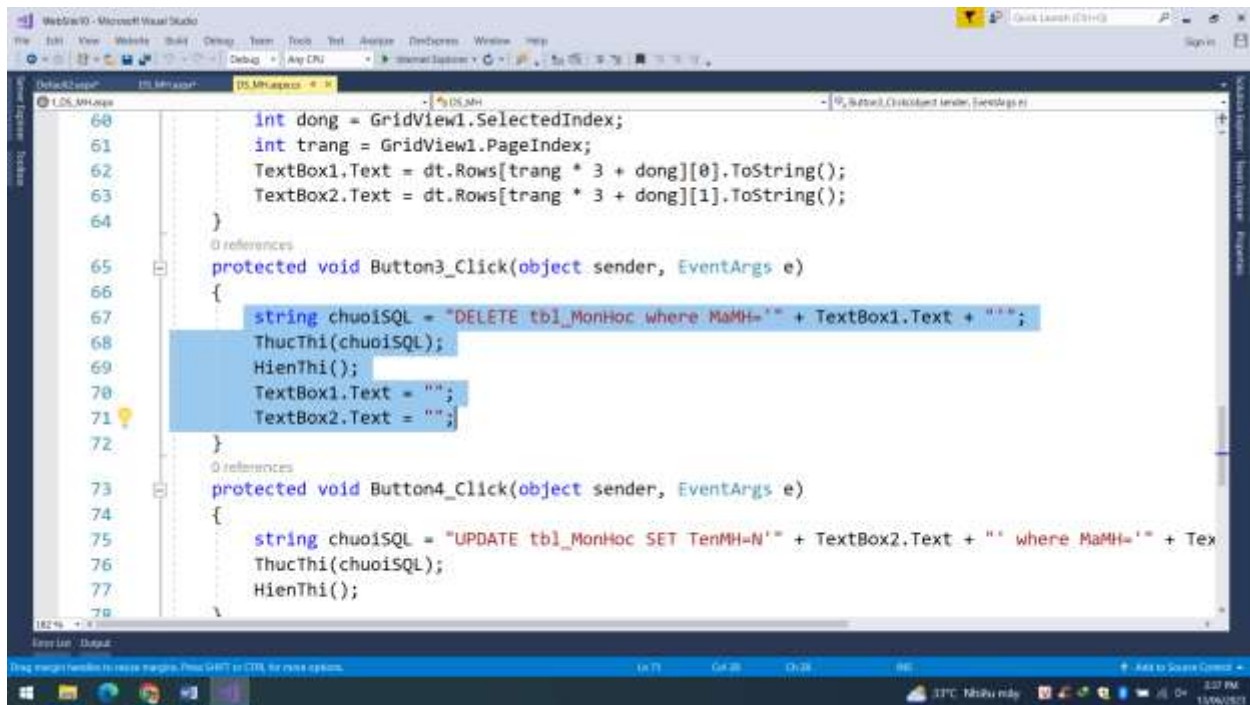
- Kích đúp nút LƯU



```
36 protected void Button1_Click(object sender, EventArgs e)
37 {
38     TextBox1.Text = "";
39     TextBox2.Text = "";
40 }
41 // references
42 protected void Button2_Click(object sender, EventArgs e)
43 {
44     string chuoiSQL = "INSERT INTO tbl_MonHoc Values ('"+TextBox1.Text+"',N"+TextBox2.Text+"')";
45     ThucThi(chuoiSQL);
46     HienThi();
47 }
48 // references
49 void ThucThi(string cauLenh)
50 {
51     SqlCommand cm = new SqlCommand(cauLenh, cn);
52     cn.Open();
53     cm.ExecuteNonQuery();
54     cn.Close();
55 }
56 // references
57 protected void GridView1_SelectedIndexChanged(object sender, EventArgs e)
58 {
59 }
```

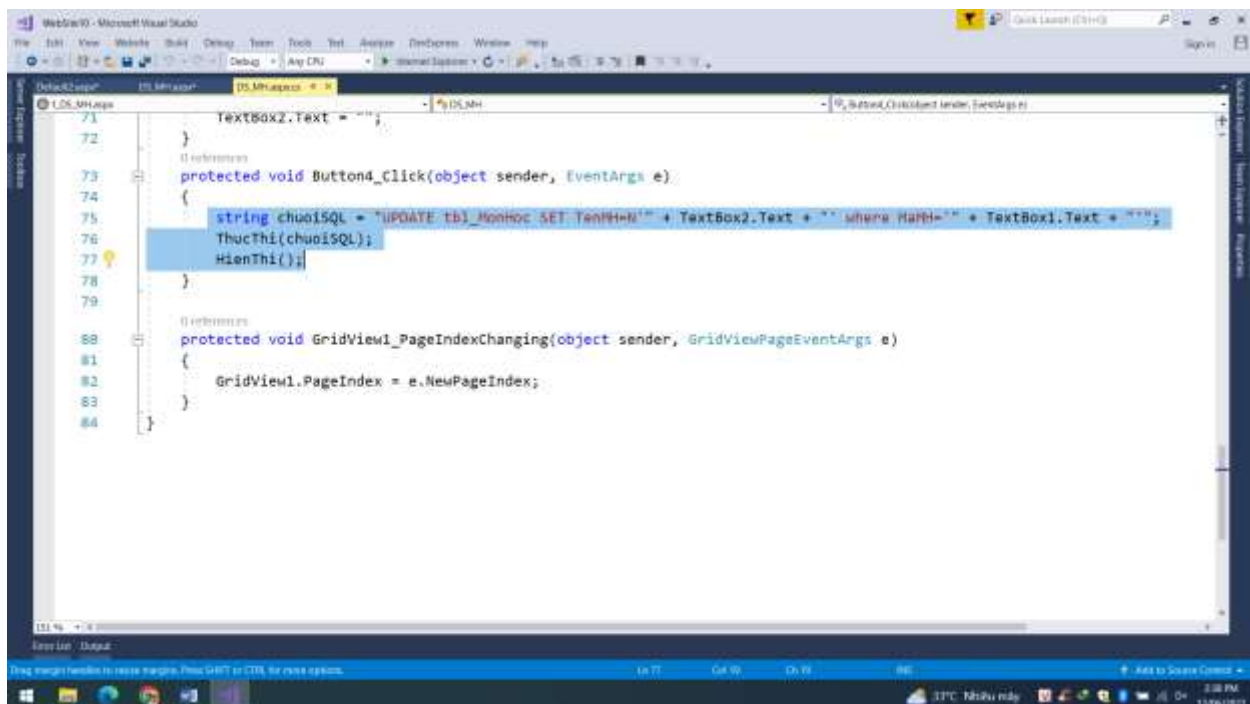
- Kích đúp nút XÓA

GV: TRẦN VŨ ĐẠI



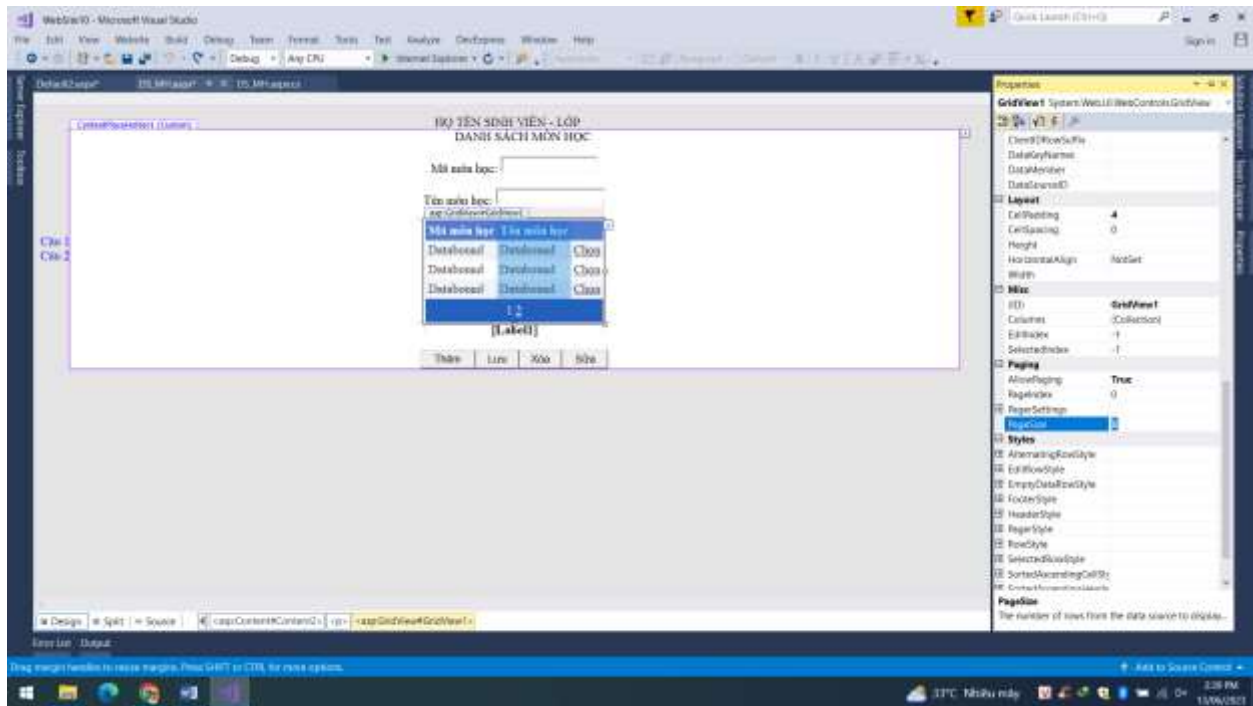
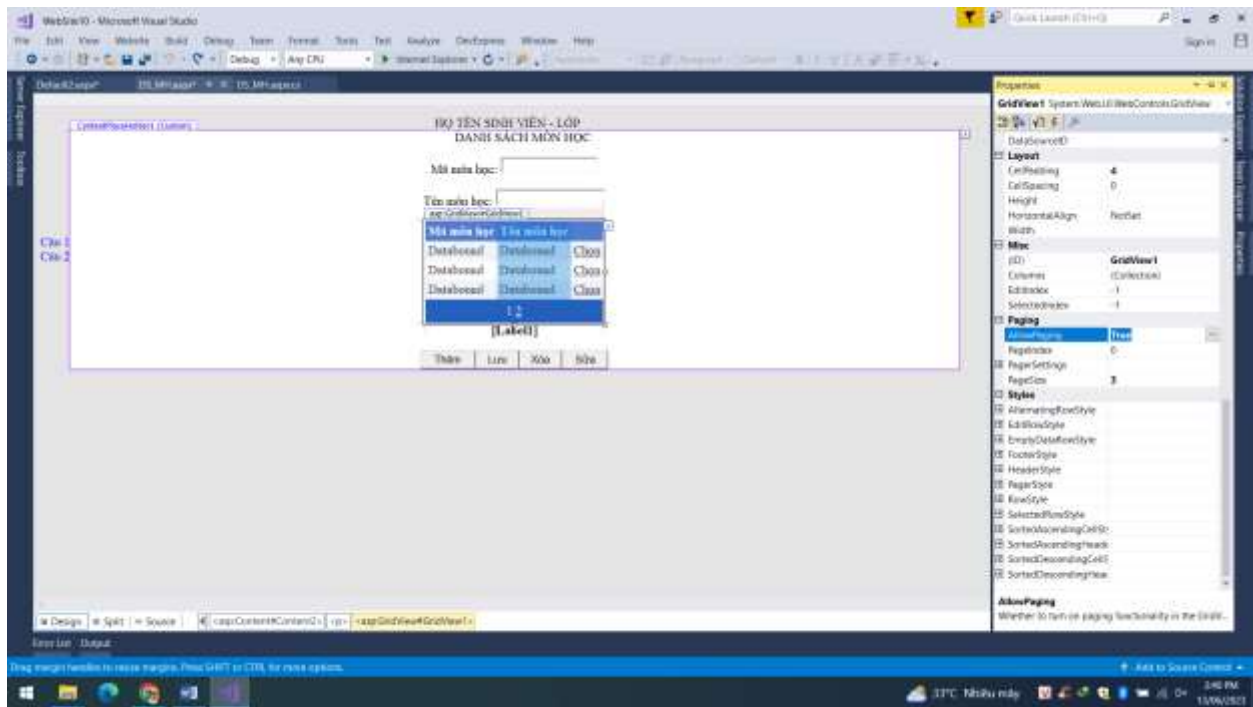
```
60     int dong = GridView1.SelectedIndex;
61     int trang = GridView1.PageIndex;
62     TextBox1.Text = dt.Rows[trang * 3 + dong][0].ToString();
63     TextBox2.Text = dt.Rows[trang * 3 + dong][1].ToString();
64 }
65 0 references
66 protected void Button3_Click(object sender, EventArgs e)
67 {
68     string chuoiSQL = "DELETE tbl_MonHoc where MaMH='" + TextBox1.Text + "'";
69     ThucThi(chuoiSQL);
70     HienThi();
71     TextBox1.Text = "";
72     TextBox2.Text = "";
73 }
74 0 references
75 protected void Button4_Click(object sender, EventArgs e)
76 {
77     string chuoiSQL = "UPDATE tbl_MonHoc SET TenMH=''" + TextBox2.Text + "' where MaMH='" + Tex
78     ThucThi(chuoiSQL);
79     HienThi();
80 }
```

- Kích đúp nút SỬA:

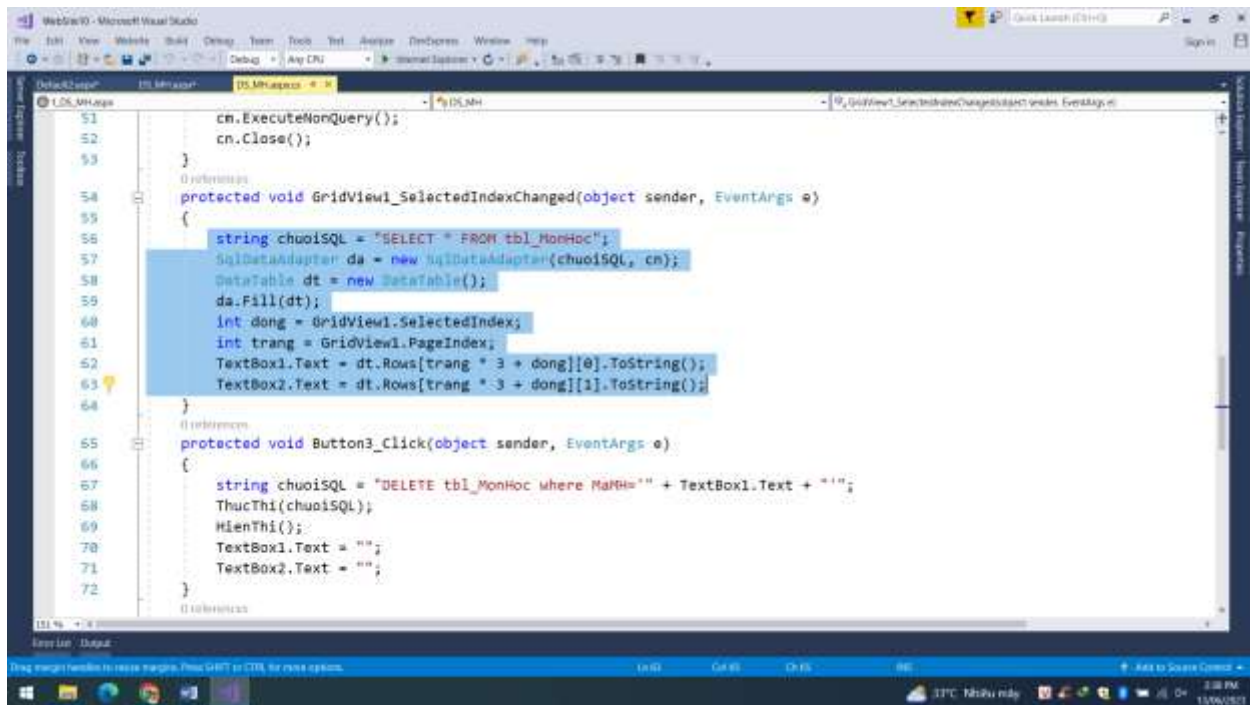


```
71     TextBox2.Text = "";
72 }
73 0 references
74 protected void Button4_Click(object sender, EventArgs e)
75 {
76     string chuoiSQL = "UPDATE tbl_MonHoc SET TenMH='" + TextBox2.Text + "' where MaMH='" + TextBox1.Text + "'";
77     ThucThi(chuoiSQL);
78     HienThi();
79 }
80 0 references
81 protected void GridView1_PageIndexChanging(object sender, GridViewPageEventArgs e)
82 {
83     GridView1.PageIndex = e.NewPageIndex;
84 }
```

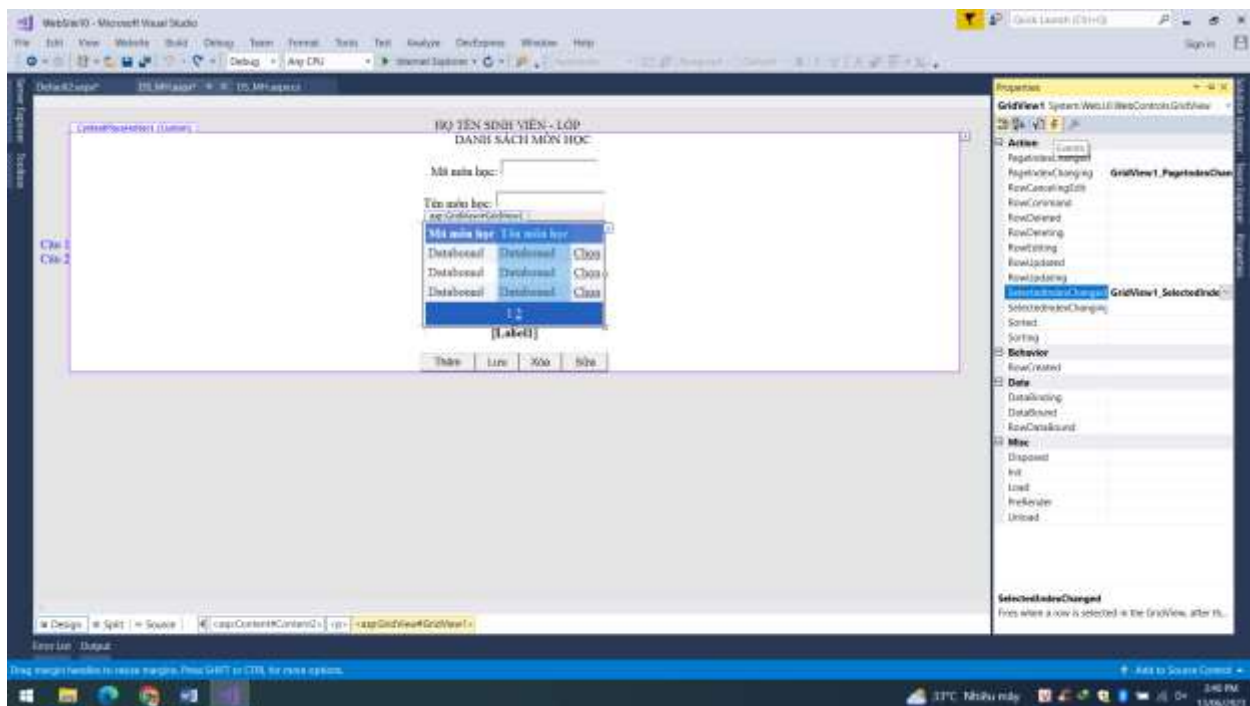
- Ấn chọn GridView → Properties



- Kích đúp vào GridView

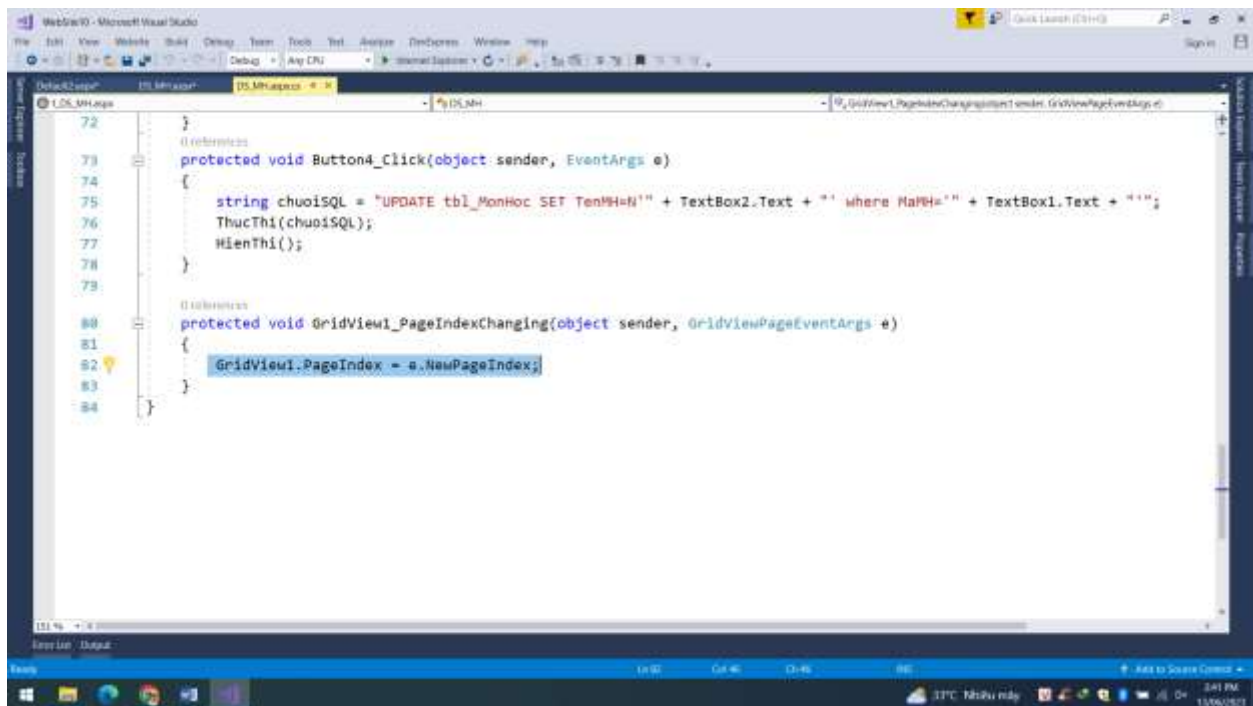
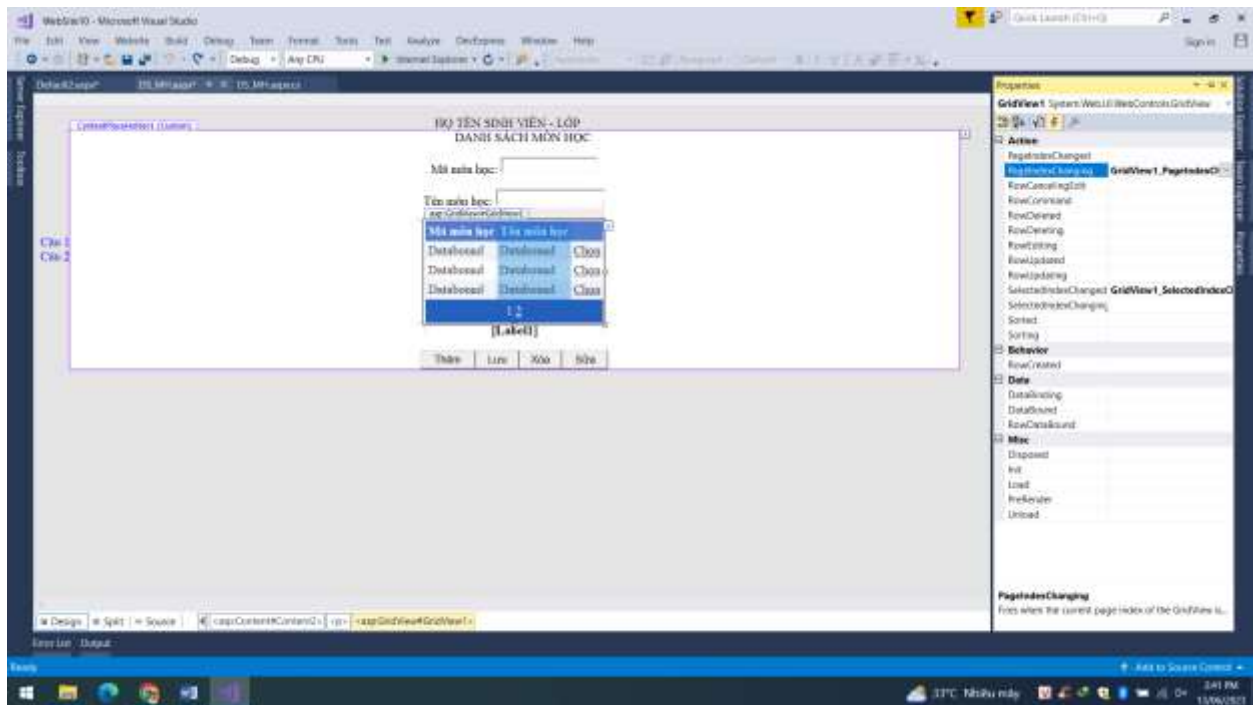


- Chọn vào GridView → Event



- Kích đúp vào

GV: TRẦN VŨ ĐẠI



CHẠY CHƯƠNG TRÌNH