



**Princess Nora University
College of Computer & Information System
Computer Science Department**



C# PROJECT (A)

Group Number:73.

Course Name: Advanced Programming Language.

Course Number: CS313T

Teacher Name: Dalal AlOtaibi.

Done by:

Serial#	Section	Student Name	Student ID
1	5C1	ريم احمد الراشد	436000234
2	5C1	غادة فهد المقرن	437003862
3	5C1	اثير عمر السعر	436200069
4	5C1	لمياء سابر القرني	436001883
5	5C1	نوف عبد الله الدعجاني	437004100
6	5C7	يارا العمري	437006653

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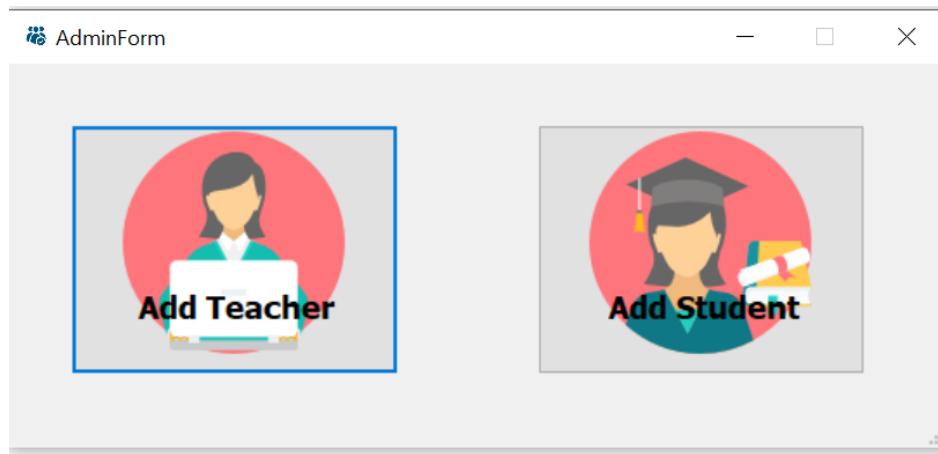
- **Introduction:**

Student Attendance Management System is a software program developed using C# programming language for easily record and view regular student attendance in schools, universities, and institutes. It helps to access the attendance information of a particular student in a particular section. Three users are allowed to access the system and they are Admin, Teacher and Student, access is done through username and password with choosing user type. First of all, admin can add teachers and students specifying Name, id, username and password. The teacher can do some operations on a section such as add section, update section name and delete section. Also, the teacher can record student attendance and generate a report for students who their absence rate reaches 25% of the total contact hours. The report contains student's information (i.e., name, id, section, number of absence hours, absence rate). This system will also help in evaluating attendance eligibility criteria of a student as it displays the absence hours and its corresponding absence rate when absence rate reaches 25% the report will contain the student name and id and that he/she has reached disciplinary notice. Students only can access their sections and printout attendance record including the number of absence hours as well as the corresponding absence rate.

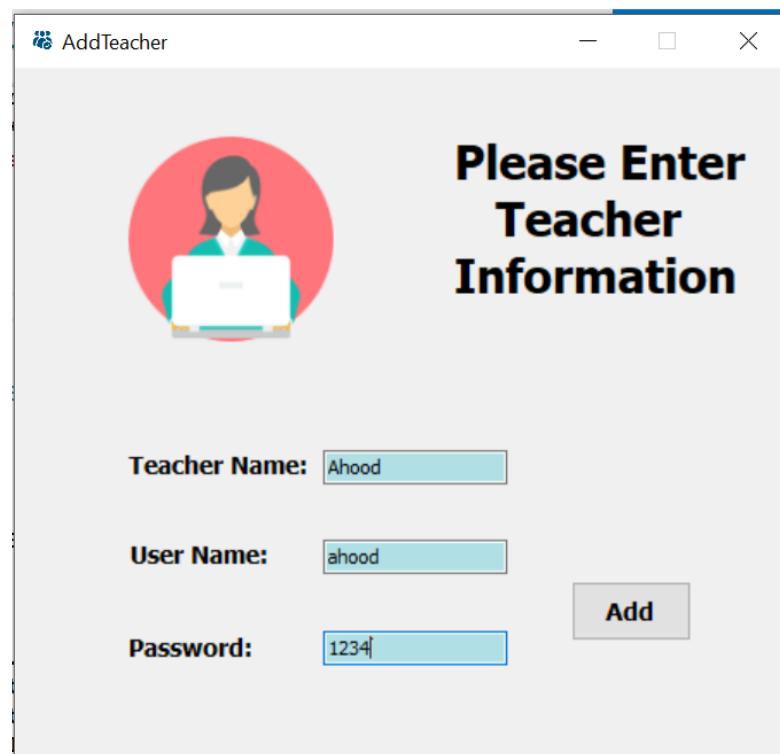
- **System hierarchy:** represents user navigation hierarchy.

Hierarchy for Admin form:

The admin can add Teacher and Student



Add Teacher:



Add Student:



Please Enter Student Information

Student Name: Kholoud

User Name: Kholoud

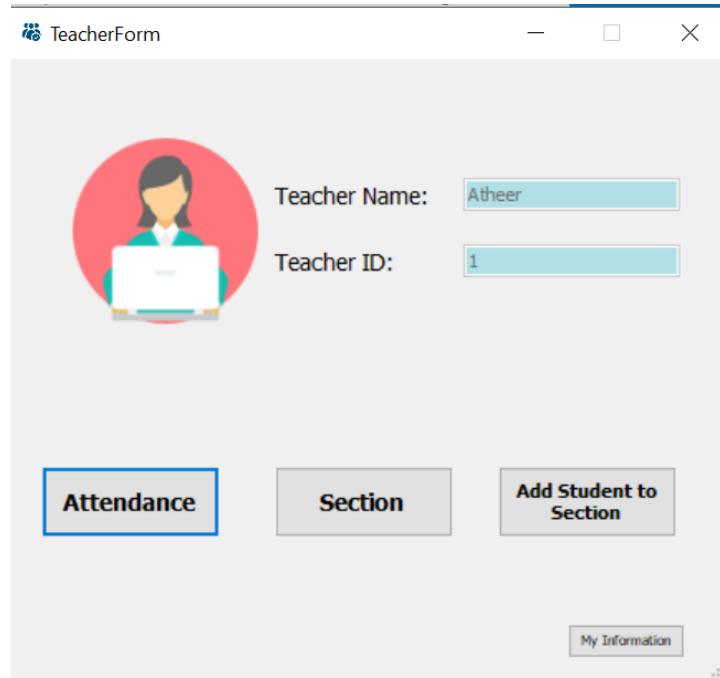
Password:

123

Add

Hierarchy for Teacher form:

Main Form:

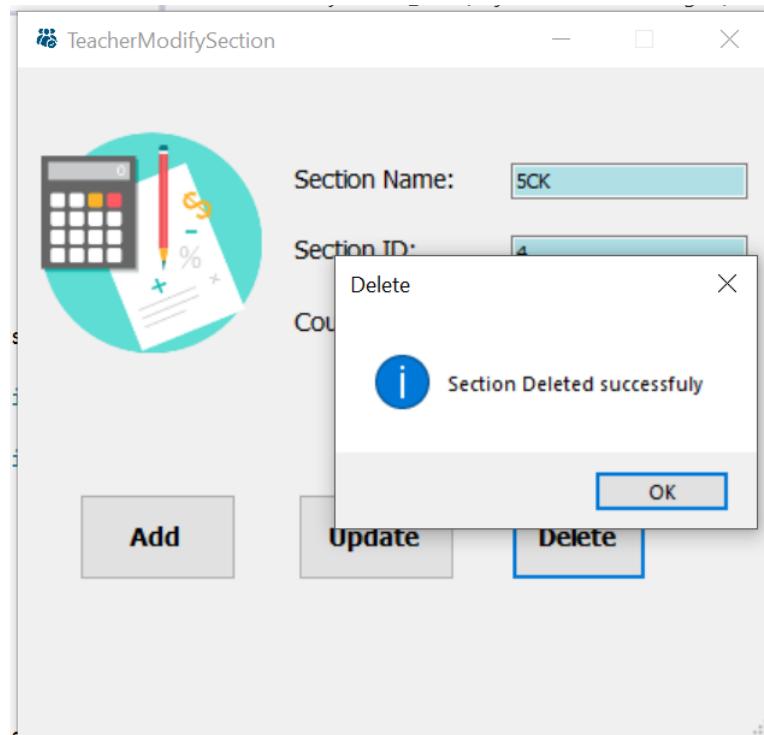


Attendance Record and view report:

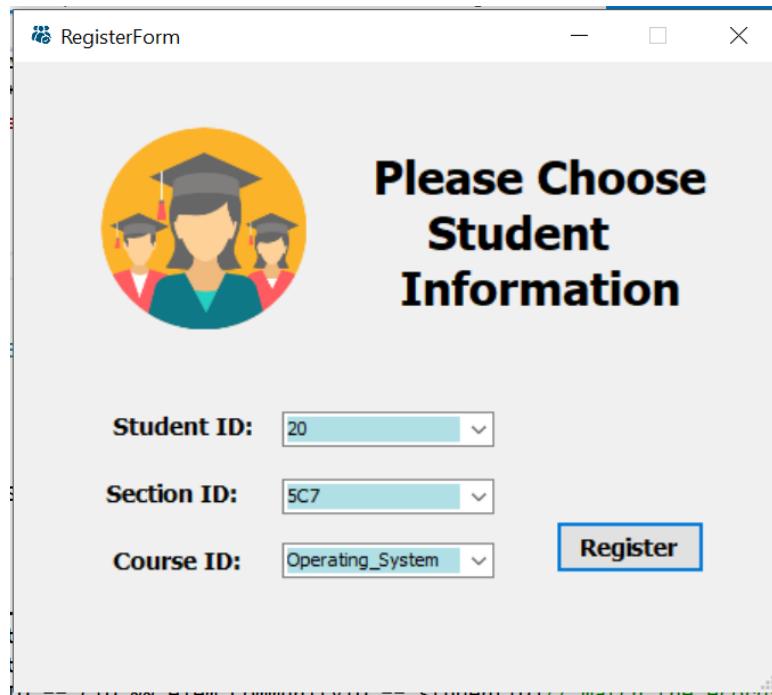
The screenshot shows a Windows application window titled "TeacherAttendance". It features two dropdown menus at the top: "5C7" and "Operating_System". Below them is a table with columns "Name", "CommunityID", and "Select Student". The table contains five rows of student data. At the bottom are "Save" and "View Report" buttons.

	Name	CommunityID	Select Student
▶	Reem	2	<input type="checkbox"/>
	Nouf	7	<input type="checkbox"/>
	Reem	3	<input type="checkbox"/>
	Wafa	10	<input type="checkbox"/>
	Rana	11	<input type="checkbox"/>

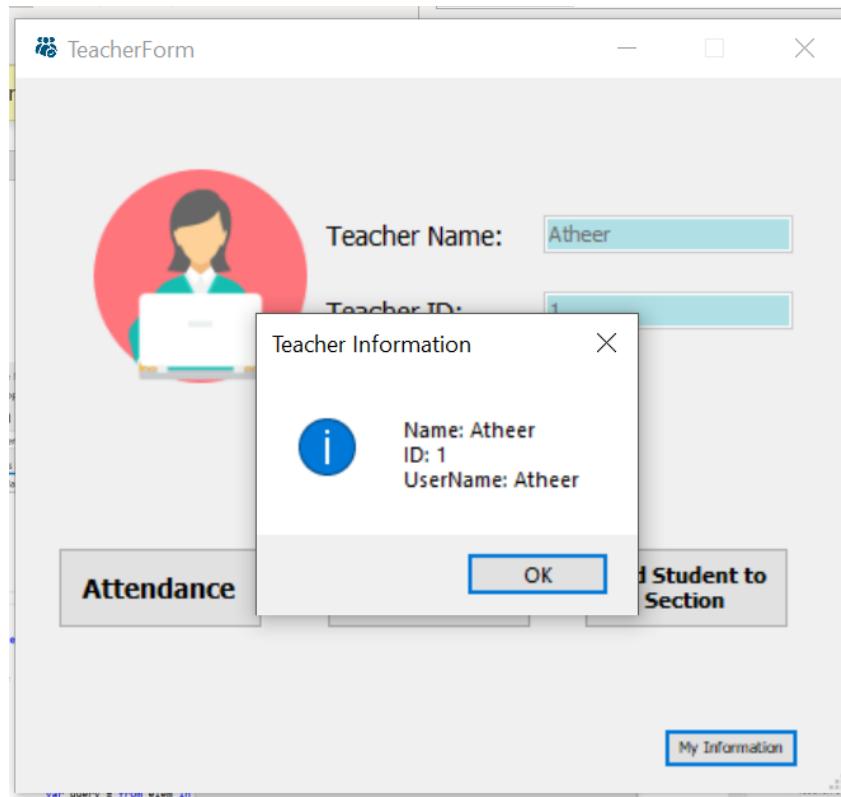
Section: Add Section, Update section name, Delete Section.



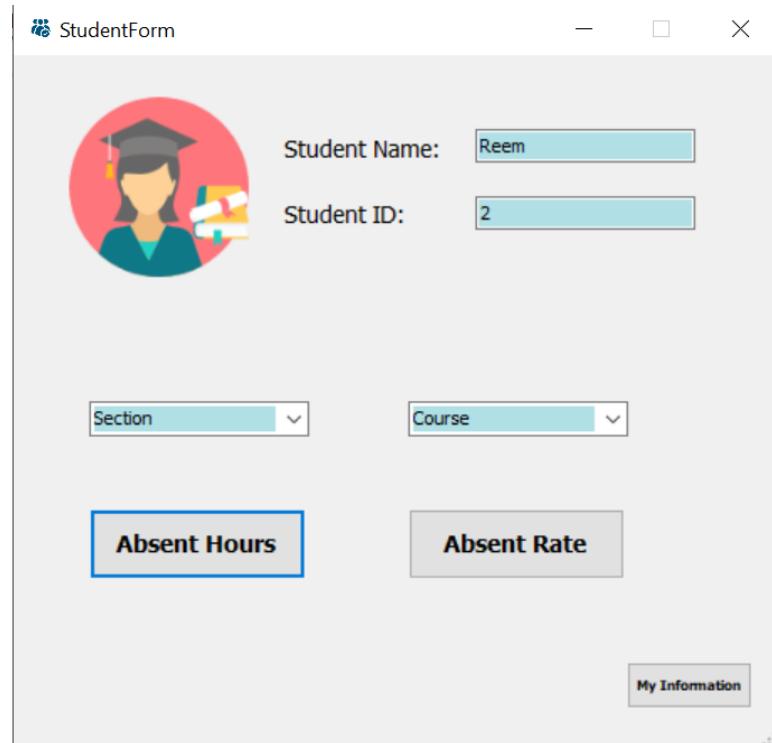
Register student in specific course and section:



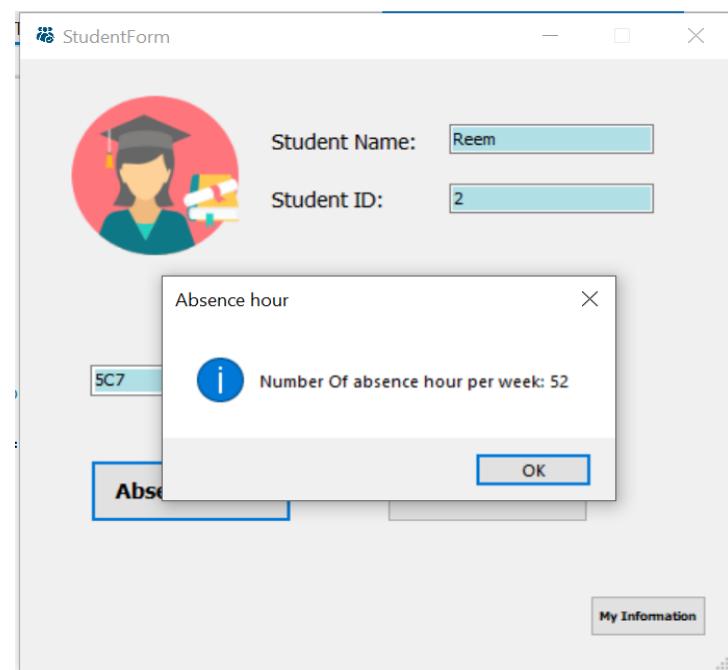
My information Form: Prints the teacher's information.



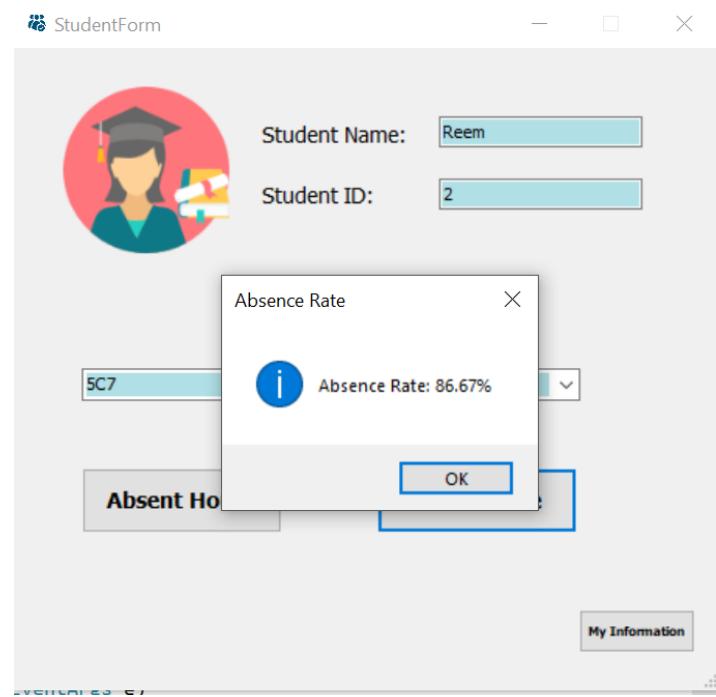
Hierarchy for Student form:



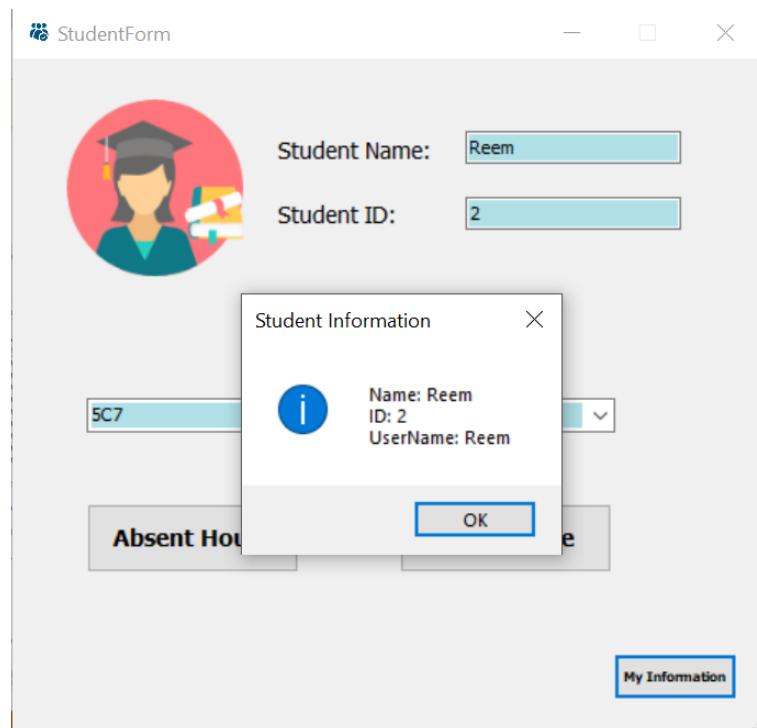
Absent hours:



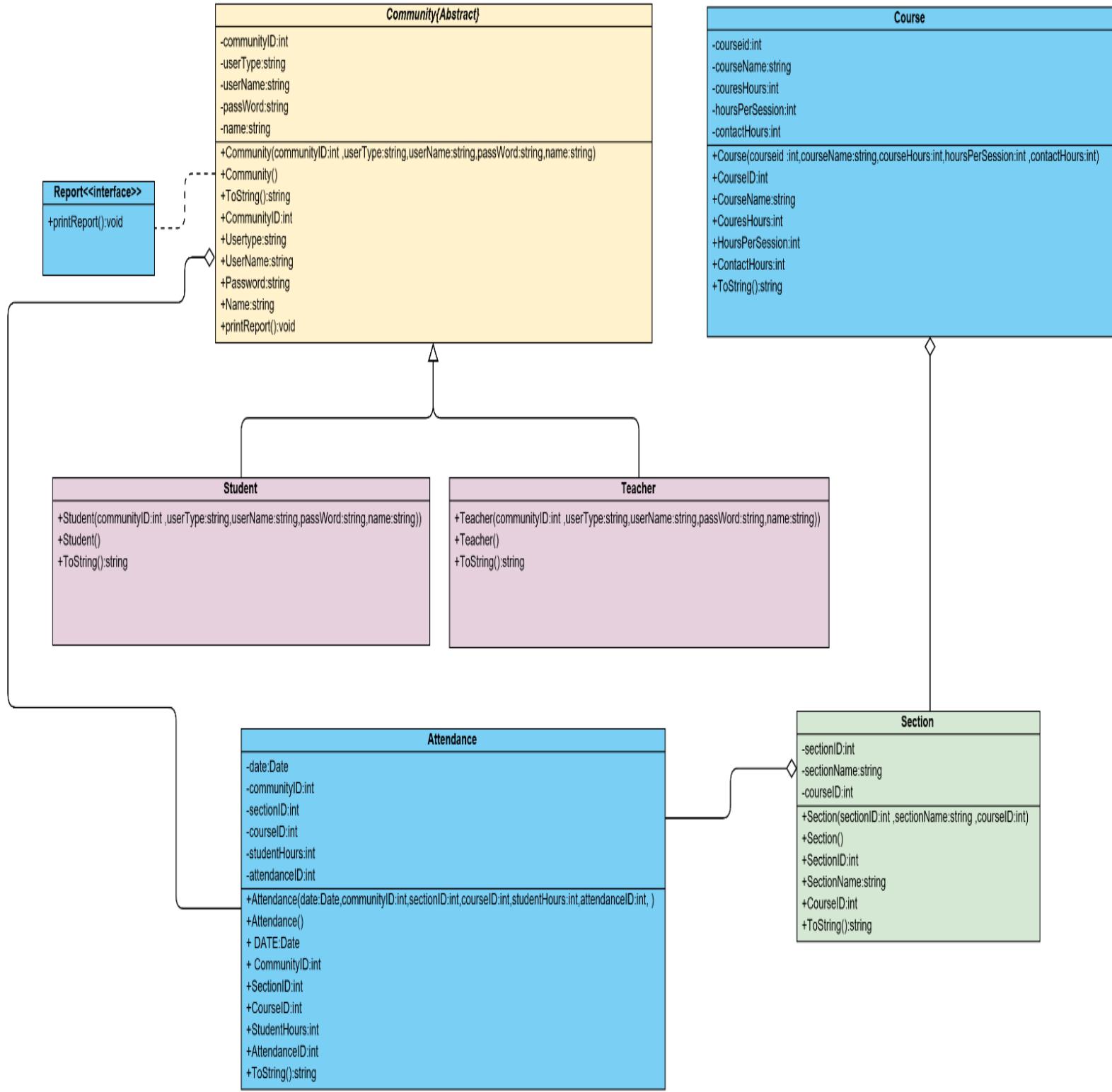
Absent rate:



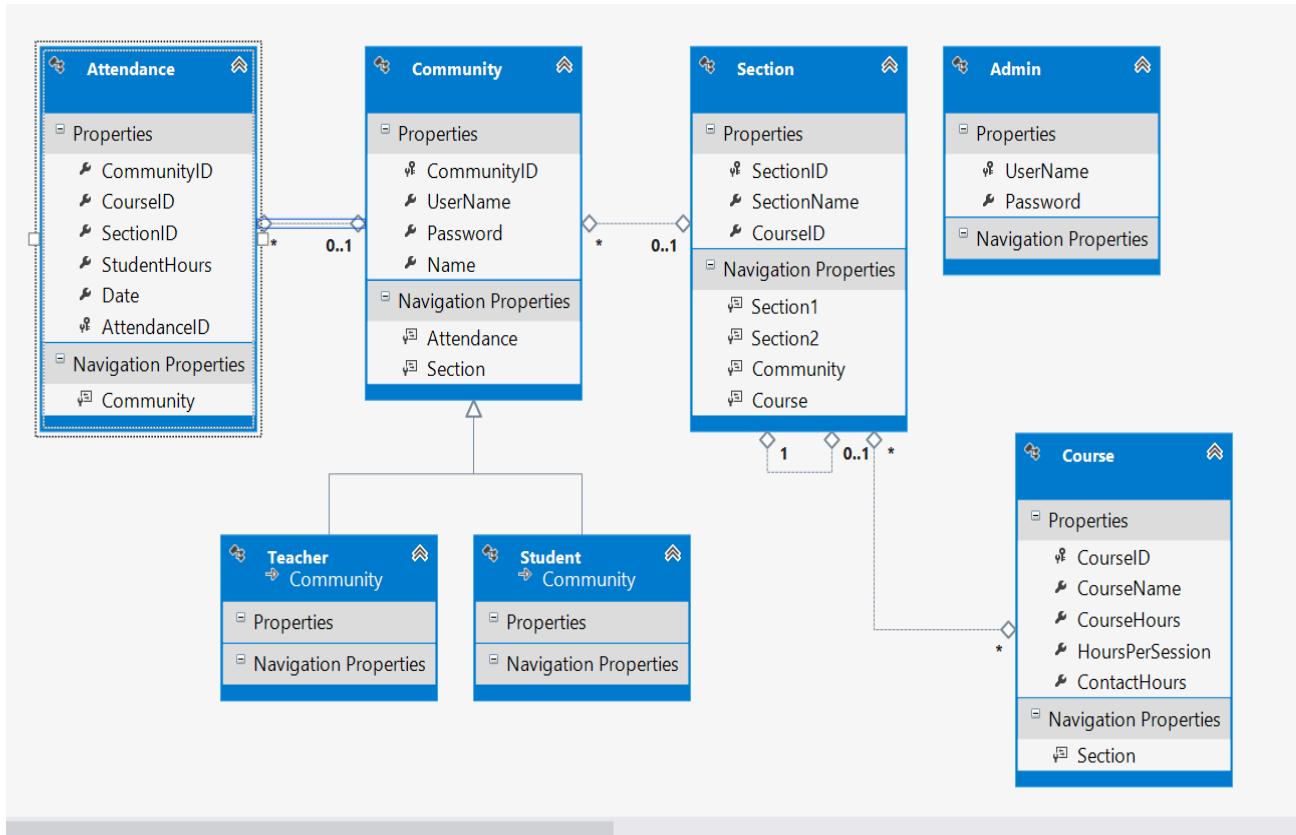
My information: Prints students' information



- UML class diagram: represents all classes and their relationships



- Database Model after linking with visual studio and mapping base and subclasses:



■ Database schema:

Database description:

It contains five tables Admin, Community, Attendance, Course and Section. And three other tables for representing many to many relationship

For Community we store (CommunityID as a primary key, UserName, Password and Name).

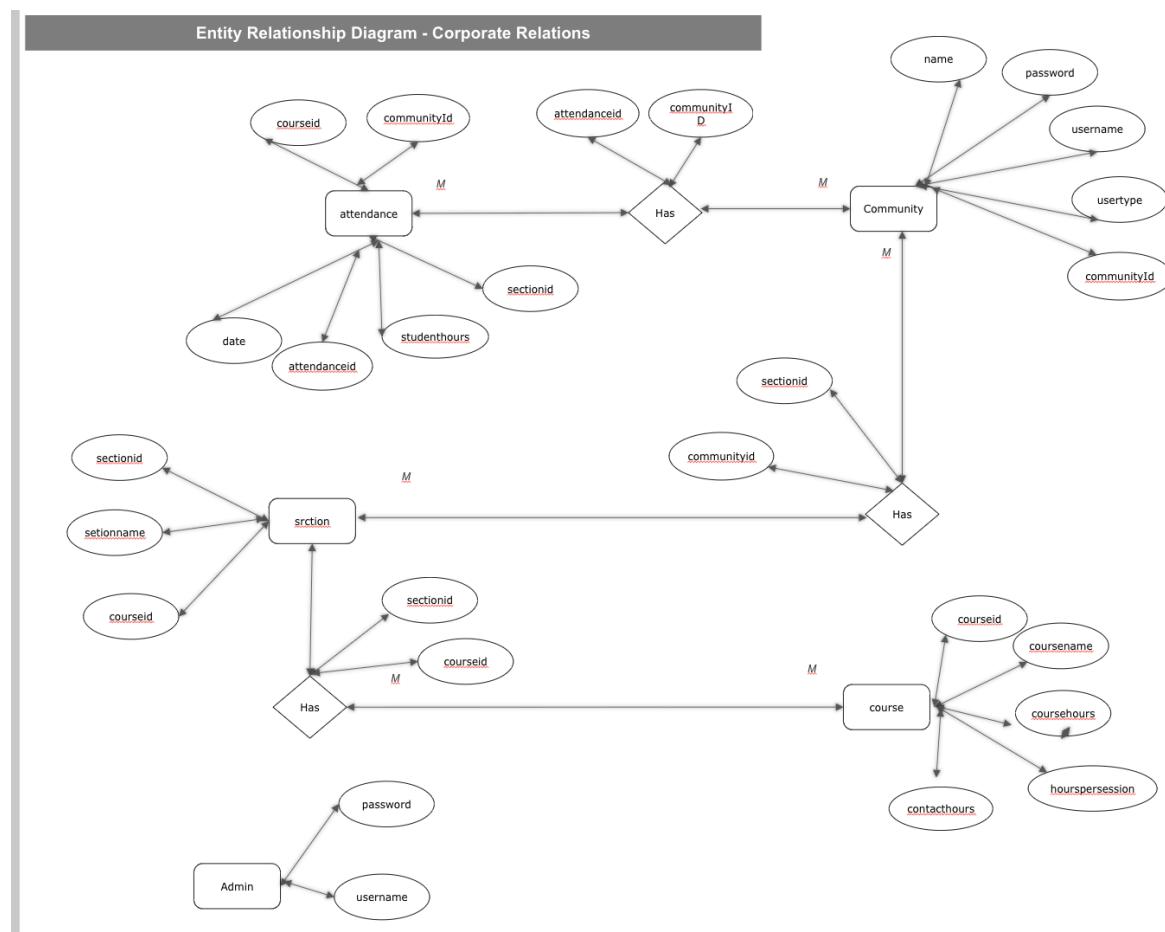
For Admin we store (UserName as primary key and Password).

For Course we store (CourseID as primary key, CourseName, CourseHours, HoursPerSession, ContactHours).

For Section we store (SectionID as primary key, SectionName and CourseID).

For Attendance we store (AttendanceID as primary key, (CommunityID, CourseID, SectionId) as foreign key, StudentHours and Date).

ER-Diagram:



Tables:

Column Name	Data Type	Allow Nulls
SectionID	int	<input type="checkbox"/>
CommunityID	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
SectionID	int	<input type="checkbox"/>
CourseID	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
CourseID	int	<input type="checkbox"/>
CourseName	varchar(30)	<input type="checkbox"/>
CourseHours	int	<input type="checkbox"/>
HoursPerSession	int	<input type="checkbox"/>
ContactHours	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
SectionID	int	<input type="checkbox"/>
SectionName	varchar(30)	<input type="checkbox"/>
CourseID	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
CommunityID	int	<input type="checkbox"/>
CourseID	int	<input type="checkbox"/>
SectionID	int	<input type="checkbox"/>
StudentHours	int	<input type="checkbox"/>
Date	date	<input type="checkbox"/>
AttendanceID	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
CommunityID	int	<input type="checkbox"/>
AttendanceID	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
CommunityID	int	<input type="checkbox"/>
UserType	varchar(20)	<input type="checkbox"/>
UserName	varchar(30)	<input type="checkbox"/>
Password	varchar(30)	<input type="checkbox"/>
Name	varchar(30)	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
UserName	varchar(30)	<input type="checkbox"/>
Password	varchar(50)	<input type="checkbox"/>

[Tbl] dbo.Section_Community

(Identity)
(Name) Section_Community

[Tbl] dbo.Section_Course

(Identity)
(Name) Section_Course
Database Name StudentAttendanceM

[Tbl] dbo.Course

(Identity)
(Name) Course
Database Name StudentAttendanceM
Description
Schema dbo

[Tbl] dbo.Section

(Identity)
(Name) Section
Database Name StudentAttendanceM
Description

[Tbl] dbo.Attendance

(Identity)
(Name) Attendance
Database Name StudentAttendanceM
Description
Schema dbo
Server Name windows-l9neekh\mssql

[Tbl] dbo.Community_Attendance

(Identity)
(Name) Community_Attendance
Database Name StudentAttendanceM
Description

[Tbl] dbo.Community

(Identity)
(Name) Community
Database Name StudentAttendanceM
Description
Schema dbo
Server Name windows-l9neekh\mssql

[Tbl] dbo.Admin

(Identity)
(Name) Admin
Database Name StudentAttendanceM
Description

Data Sample:

Admin Table:

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure, including the Admin table under the dbo schema. The central pane displays a query results grid for the Admin table, which contains two rows of data: Admin1 and Admin2, both with the password 123. The Properties pane on the right shows connection details like the server name (WINDOWS-L9NEEKHM) and session tracing ID (51). The status bar at the bottom indicates the query was executed successfully.

UserName	Password
Admin1	123
Admin2	123

Attendance Table:

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure, including the Attendance table under the dbo schema. The central pane displays a query results grid for the Attendance table, which contains 15 rows of data. The columns include CommunityID, CourseID, SectionID, StudentHours, Date, and AttendanceID. The Properties pane on the right shows connection details like the server name (WINDOWS-L9NEEKHM) and session tracing ID (53). The status bar at the bottom indicates the query was executed successfully.

CommunityID	CourseID	SectionID	StudentHours	Date	AttendanceID
1	2	340	3	8	2018-12-05 0
2	4	380	2	3	2018-12-03 2
3	5	380	2	3	2018-12-03 3
4	6	380	2	1	2018-12-03 4
5	7	340	3	2	2018-12-05 5
6	3	340	3	4	2018-12-05 6
7	8	380	2	0	2018-12-04 7
8	9	380	2	0	2018-12-04 8
9	10	340	3	2	2018-12-05 9
10	11	340	3	2	2018-12-05 11
11	12	351	2	0	2018-12-05 12

Community Table:

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the 'Community' table under the 'StudentAttendanceManagementdb' database is selected. In the center pane, a query results grid displays 11 rows of data from the 'Community' table. The right pane shows connection properties and a 'Properties' window.

```

SELECT TOP 1000 [CommunityID]
      ,[UserType]
      ,[UserName]
      ,[Password]
      ,[Name]
   FROM [StudentAttendanceManagementdb].[dbo].[Community]
  
```

	CommunityID	UserType	UserName	Password	Name
1	1	Teacher	Atheer	1234	Atheer
2	2	Student	Reem	123	Reem
3	3	Student	Reem	123	Reem
4	4	Student	GF	123456	Ghadah
5	5	Student	lama	1234	Student
6	6	Student	sara	1234	Student
7	7	Student	Nouf	123	Nouf
8	8	Student	Noura	123	Noura
9	9	Student	Hala	123	Hala
10	10	Student	Wafa	123	Wafa
11	11	Student	Rana	123	Rana

Section Table:

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the 'Section' table under the 'StudentAttendanceManagementdb' database is selected. In the center pane, a query results grid displays 2 rows of data from the 'Section' table. The right pane shows connection properties and a 'Properties' window.

```

SELECT TOP 1000 [SectionID]
      ,[SectionName]
      ,[CourseID]
   FROM [StudentAttendanceManagementdb].[dbo].[Section]
  
```

	SectionID	SectionName	CourseID
1	2	SC8	340
2	3	SC7	380

Course Table:

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure, including the master database and various tables like AttendanceSystem, ReportServer, and StudentAttendanceManagement. The central pane displays a T-SQL script to select top 1000 rows from the Course table, which contains columns CourseID, CourseName, CourseHours, HoursPerSession, and ContactHours. The results pane shows the following data:

CourseID	CourseName	CourseHours	HoursPerSession	ContactHours
313	Advance_Programming	3	2	4
340	Operating_System	3	2	4
351	HCI	3	2	4
380	Ethics	1	1	1
531	Math	4	3	5

The status bar at the bottom indicates the query was executed successfully.

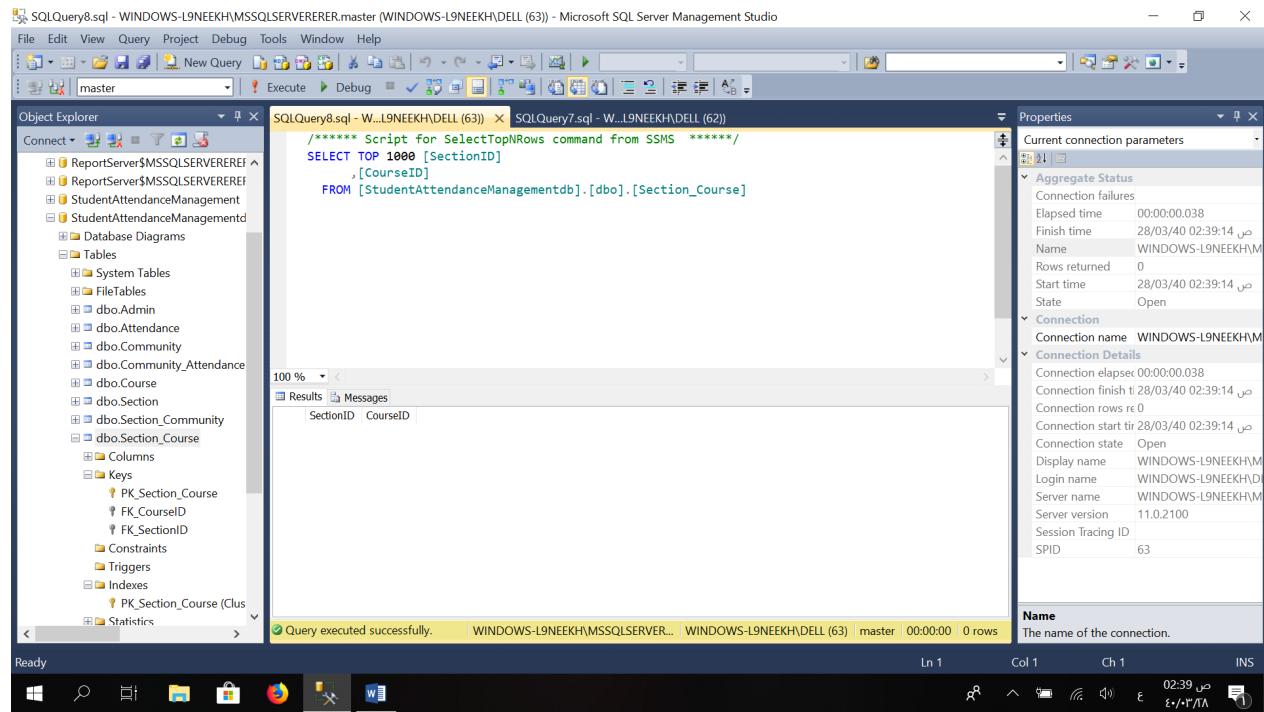
Section_Community:

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure, including the master database and various tables like ReportServer, StudentAttendanceManagement, and Section_Community. The central pane displays a T-SQL script to select top 1000 rows from the Section_Community table, which contains columns SectionID and CommunityID. The results pane shows the following data:

SectionID	CommunityID
-----------	-------------

The status bar at the bottom indicates the query was executed successfully.

Section_Course:

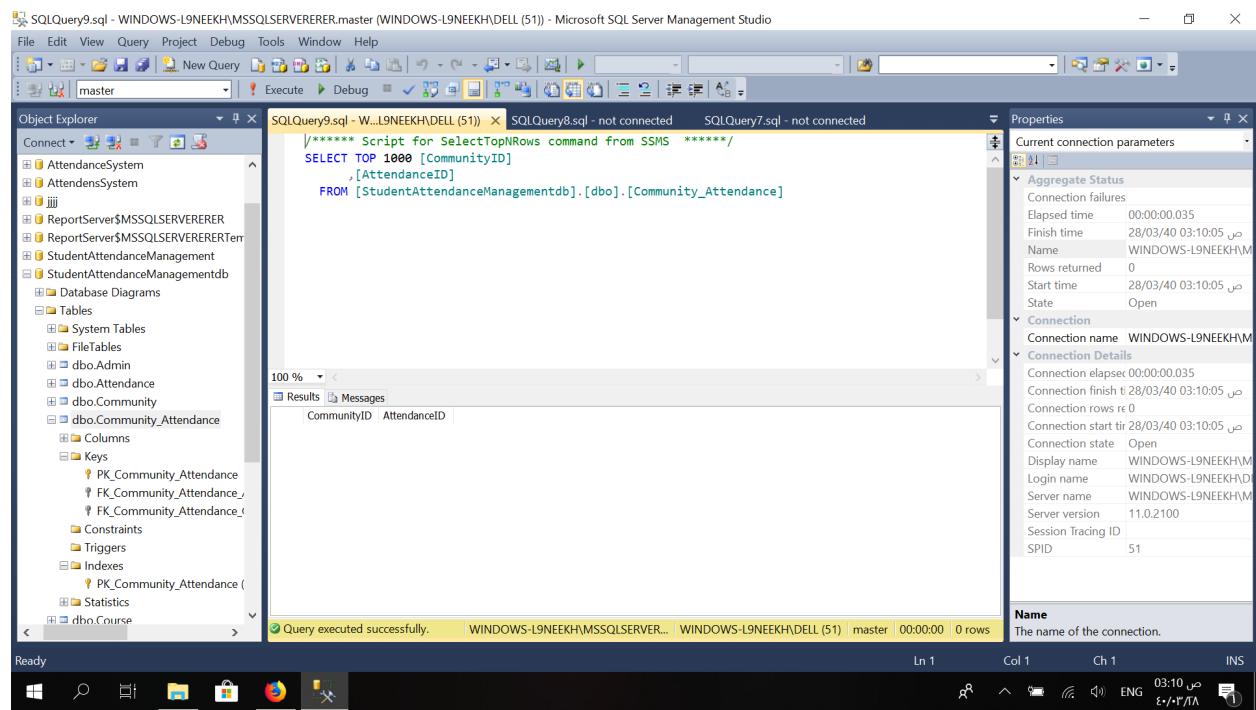


The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure, including the StudentAttendanceManagementdb database and its tables like Course, Section, and Section_Course. The central pane shows a query window with the following T-SQL code:

```
***** Script for SelectTopNRows command from SSMS *****
SELECT TOP 1000 [SectionID]
,[CourseID]
FROM [StudentAttendanceManagementdb].[dbo].[Section_Course]
```

The Results pane shows the output of the query, which executed successfully and returned 0 rows. The Properties pane on the right provides connection details, including the connection name (WINDOWS-L9NEEKH\DELL), server name (WINDOWS-L9NEEKH\DELL), and session tracing ID (63).

Community_Attendance:

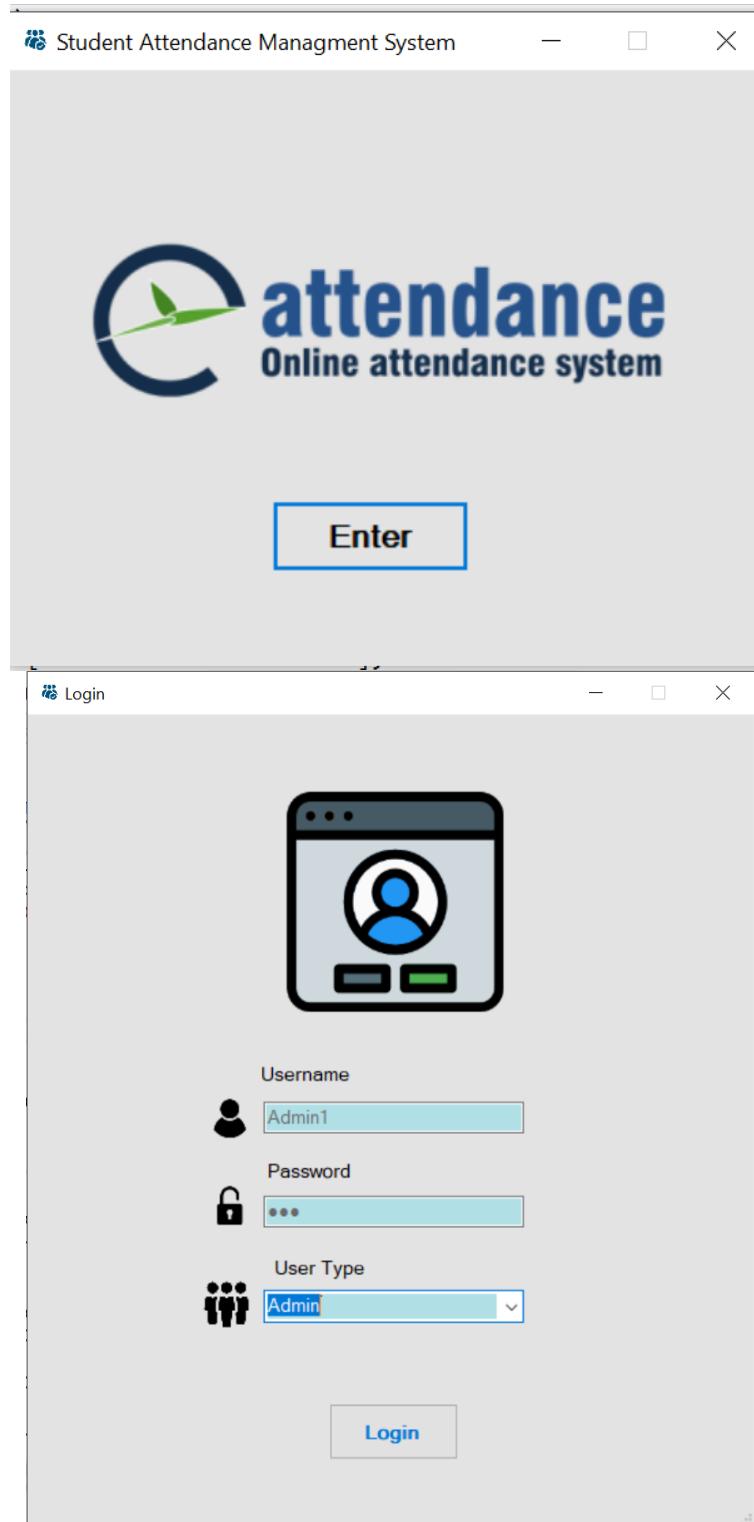


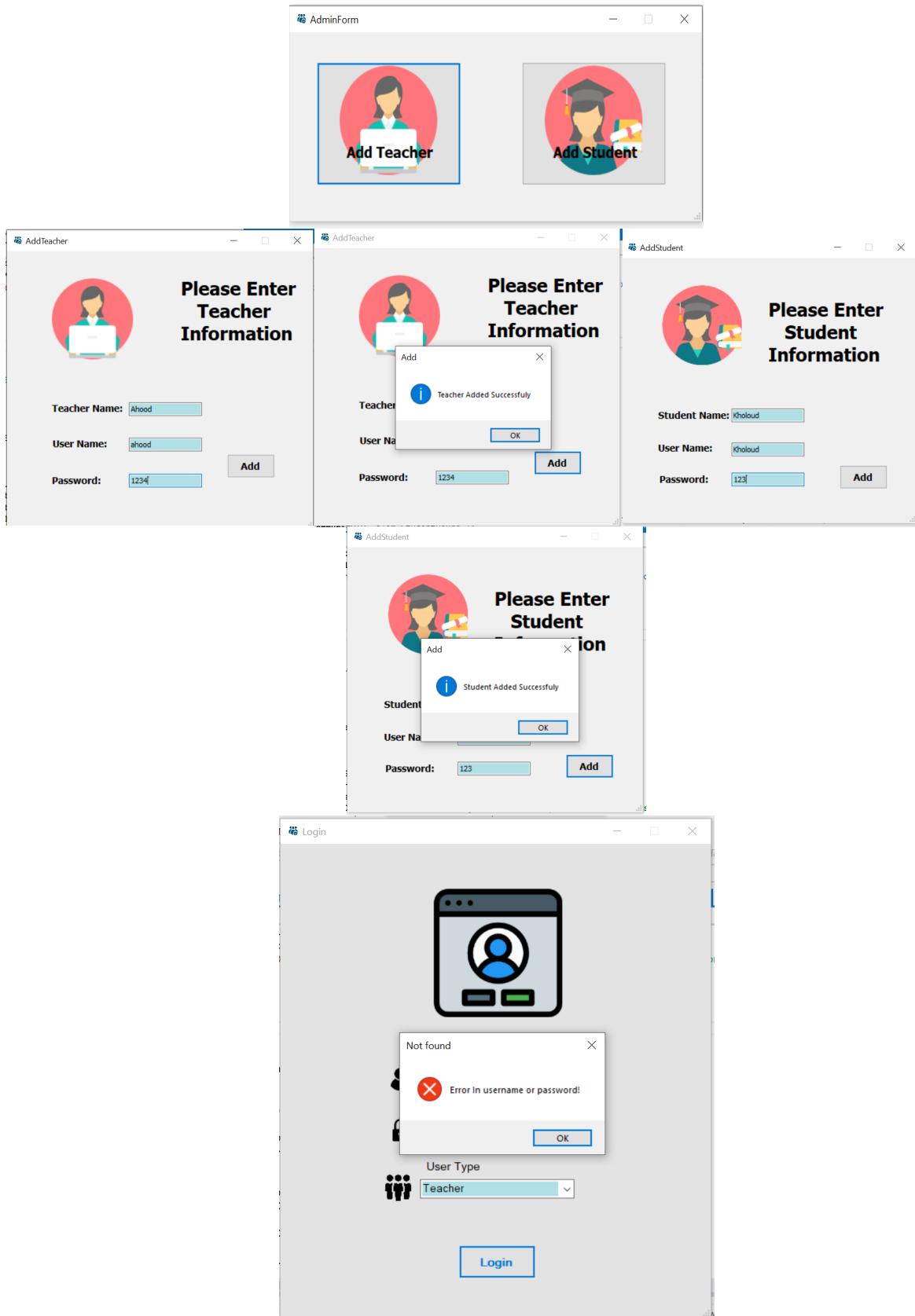
The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure, including the StudentAttendanceManagementdb database and its tables like Community, Community_Attendance, and Attendance. The central pane shows a query window with the following T-SQL code:

```
***** Script for SelectTopNRows command from SSMS *****
SELECT TOP 1000 [CommunityID]
,[AttendanceID]
FROM [StudentAttendanceManagementdb].[dbo].[Community_Attendance]
```

The Results pane shows the output of the query, which executed successfully and returned 0 rows. The Properties pane on the right provides connection details, including the connection name (WINDOWS-L9NEEKH\DELL), server name (WINDOWS-L9NEEKH\DELL), and session tracing ID (51).

- Snapshot of the execution trace.





TeacherForm

Teacher Name: Atheer
Teacher ID: 1

Attendance **Section** **Add Student to Section**

RegisterForm

Please Choose Student Information

Student ID: 20
Section ID: SC7
Course ID: Operating_System **Register**

TeacherModifySection

Section Name: 5C1
Section ID: 4

Add **OK**

Section Added successfully

TeacherModifySection

Section Name: 5CK
Section ID: 4

Delete **OK**

Section Deleted successfully

TeacherModifySection

Section Name: 5CK
Section ID: 4

Update **OK**

Section has updated successfully ..

TeacherAttendance

5C7 Operating System

	Name	CommunityID	Select Student
▶	Reem	2	<input type="checkbox"/>
	Nouf	7	<input type="checkbox"/>
	Reem	3	<input type="checkbox"/>
	Wafa	10	<input type="checkbox"/>
	Rana	11	<input type="checkbox"/>

< >

Save View Report

TeacherAttendance

5C7 Operating_System

	Name	CommunityID	Select Student
▶	Reem	2	<input checked="" type="checkbox"/>
	Nouf	7	<input checked="" type="checkbox"/>

Success

i Students has Marked thier Attendance successfully ..

OK

< >

Save View Report

TeacherViewReportForm

Please Choose Section and Course

Operating_System

5C7

View Report

The Following students have 25% absence or more:
Name: Reem, ID: 2, number Of absence hours per week: 4, Absence Rate: 86.67%
Name: Nouf, ID: 7, number Of absence hours per week: 2, Absence Rate: 96.67%
Name: Reem, ID: 3, number Of absence hours per week: 0, Absence Rate: 93.33%
Name: Wafa, ID: 10, number Of absence hours per week: 2, Absence Rate: 96.67%
Name: Rana, ID: 11, number Of absence hours per week: 2, Absence Rate: 96.67%

OK

Login

Username: reem

Password: ***

User Type: Student

Login

The image displays four screenshots of a Windows application window titled "StudentForm".

- Screenshot 1:** Shows the main form with a student profile icon, fields for "Student Name: Reem" and "Student ID: 2", and dropdowns for "Section" and "Course". Buttons for "Absent Hours" and "Absent Rate" are visible.
- Screenshot 2:** Shows a modal dialog titled "Absence hour" with the message "Number Of absence hour per week: 52".
- Screenshot 3:** Shows a modal dialog titled "Absent Rate" with the message "Absence Rate: 86.67%".
- Screenshot 4:** Shows a modal dialog titled "Student Information" with the message "Name: Reem", "ID: 2", and "UserName: Reem".

■ Snapshot of the code.

```

Student_Attendance_Management_System.cs (Design) StudentAttendanceManagementdbModel.tt StudentForms.cs (Design) Admin.cs
namespace Student_Attendance_Management_System
{
    using System;
    using System.Collections.Generic;

    public partial class Admin
    {
        //Constructor
        public Admin() { }
        public Admin(string uname, string password)
        {
            UserName = uname;
            Password = password;
        }
        //Auto-implemented properties
        public string UserName { get; set; }
        public string Password { get; set; }
        //To print the object
        public override string ToString()
        {
            return "UserName: " + UserName + " Password: " + Password;
        }
    }
}

100% □ Error List Output Ready
FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
Start Debug Any CPU Table View
Quick Launch (Ctrl+Q) Stop Share
Database Explorer Toolbox
Solution Explorer
Search Solution Explorer (Ctrl+I)
StudentAttendanceManagementdbModel.edmx.tt
StudentAttendanceManagementdbModel.tt
Admin.cs
Attendance.cs
Community.cs
Course.cs
Section.cs
Student.cs
StudentAttendanceMangementdbModel.cs
Teacher.cs
Properties
Ln 33 Col 1 Ch 1 INS
StudentAttendanceManagementdbModel.tt StudentForm.cs (Design) Admin.cs Attendance.cs
namespace Student_Attendance_Management_System
{
    using System;
    using System.Collections.Generic;

    public partial class Attendance
    {
        //Constructors
        public Attendance(){}
        public Attendance(int cID, int courseID, int secID, int sHours, int aID)
        {
            CommunityID = cID;
            CourseID = courseID;
            SectionID = secID;
            StudentHours = sHours;
            AttendanceID = aID;
        }
        //Auto-implemented properties
        public int CommunityID { get; set; }
        public int CourseID { get; set; }
        public int SectionID { get; set; }
        public int StudentHours { get; set; }
        public System.DateTime Date { get; set; }
        public int AttendanceID { get; set; }

        public virtual Community Community { get; set; }
        //To print the object
        public override string ToString()
        {
        }
    }
}

100% □ Error List Output Ready
FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
Start Debug Any CPU Table View
Quick Launch (Ctrl+Q) Stop Share
Database Explorer Toolbox
Solution Explorer
Search Solution Explorer (Ctrl+I)
StudentAttendanceManagementdbModel.edmx.tt
StudentAttendanceManagementdbModel.tt
Admin.cs
Attendance.cs
Community.cs
Course.cs
Section.cs
Student.cs
StudentAttendanceMangementdbModel.cs
Teacher.cs
Properties
Ln 35 Col 14 Ch 14 INS

```

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU

StudentAttendanceManagementModel.tt StudentForm.cs [Design] Admin.cs Attendance.cs

Community.cs

```

public virtual Community Community { get; set; }
//To print the object
public override string ToString()
{
    return "CommunityID: " + CommunityID + " CourseID: " + CourseID + " SectionID: " + SectionID + " Att
}
}

```

Solution Explorer

Search Solution Explorer (Ctrl+.)

- StudentAttendanceManagementModel.edmx
- StudentAttendanceManagementModel.tt
- Admin.cs
- Attendance.cs
- Community.cs
- Course.cs
- Section.cs
- Student.cs
- StudentAttendanceManagementModel.cs
- Teacher.cs

Properties

Ready

LN 35 Col 14 Ch 14 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU

StudentAttendanceManagementModel.tt StudentForm.cs [Design] Admin.cs Attendance.cs Community.cs

Community.cs

```

namespace Student_Attendance_Management_System
{
    using System;
    using System.Collections.Generic;

    public abstract partial class Community : Report
    {
        //Constructor
        public Community()
        {
            this.Attendance = new HashSet<Attendance>();
        }

        public Community(string name, string password,int cID,string uName) {
            Name = name;
            Password = password;
            UserName = uName;
            CommunityID = cID;
        }

        //Auto-implemented properties
        public int CommunityID { get; set; }
        public string UserName { get; set; }
        public string Password { get; set; }
        public string Name { get; set; }

        public virtual ICollection<Attendance> Attendance { get; set; }
        public virtual Section Section { get; set; }
        //To print the object
    }
}

```

Solution Explorer

Search Solution Explorer (Ctrl+.)

- StudentAttendanceManagementModel.edmx
- StudentAttendanceManagementModel.tt
- Admin.cs
- Attendance.cs
- Community.cs
- Course.cs
- Section.cs
- Student.cs
- StudentAttendanceManagementModel.cs
- Teacher.cs

Properties

Ready

LN 37 Col 30 Ch 30 INS

Community.cs

```

public virtual Section Section { get; set; }
//To print the object
public String printReport()// implementation for interface method
{
    return "Name: " + Name + "\n ID: " + CommunityID + "\n UserName: " + UserName;
}
public override string ToString()
{
    return "CommunityID:" + CommunityID + "UserName:" + UserName + "Password: " + Password + "Name:" + Name;
}
}

```

Courses.cs

```

namespace Student_Attendance_Management_System
{
    using System;
    using System.Collections.Generic;

    public partial class Course
    {
        //Constructor
        public Course()
        {
            this.Section = new HashSet<Section>();
        }
        public Course(int cID, string cName, int cHours, int HpeS, int contact)
        {
            CourseID = cID;
            CourseName = cName;
            CourseHours = cHours;
            HoursPerSession = HpeS;
            ContactHours = contact;
        }
        //Auto-implemented properties
        public int CourseID { get; set; }
        public string CourseName { get; set; }
        public int CourseHours { get; set; }
        public int HoursPerSession { get; set; }
        public int Contacthours { get; set; }

        public virtual ICollection<Section> Section { get; set; }
    }
}

```

The screenshot shows the Microsoft Visual Studio Express 2012 interface. The main window displays the `Course.cs` file under the `StudentAttendance_Management_System.Course` namespace. The code implements a `ToString()` method that returns a string representation of the course details. The Solution Explorer on the right shows the project structure with files like Admin.cs, Attendance.cs, Community.cs, Course.cs, Section.cs, Student.cs, and Teacher.cs. The Properties window is also visible.

```
public string CourseName { get; set; }
public int CourseHours { get; set; }
public int HoursPerSession { get; set; }
public int ContactHours { get; set; }

public virtual ICollection<Sections> Section { get; set; }
//To print the object
public override string ToString()
{
    return "CourseID: " + CourseID + " CourseName: " + CourseName + " CourseHours: " + CourseHours + " HoursPerSession: " + HoursPerSession + " ContactHours: " + ContactHours;
}
```

The screenshot shows the Microsoft Visual Studio Express 2012 interface. The main window displays the `Section.cs` file under the `StudentAttendance_Management_System.Section` namespace. The code defines a partial class `Section` with properties for Section ID, name, and course, along with a collection of communities. The Solution Explorer on the right shows the project structure with files like Admin.cs, Attendance.cs, Community.cs, Course.cs, Section.cs, Student.cs, and Teacher.cs. The Properties window is also visible.

```
namespace StudentAttendance_Management_System
{
    using System;
    using System.Collections.Generic;

    public partial class Section
    {
        //Constructors
        public Section()
        {
            this.Community = new HashSet<Community>();
            this.Course = new HashSet<Course>();
        }

        public Section(int sID, string sName, int cID)
        {
            SectionID = sID;
            SectionName = sName;
            CourseID = cID;
        }

        //Auto-implemented properties
        public int SectionID { get; set; }
        public string SectionName { get; set; }
        public int CourseID { get; set; }

        public virtual Section Section1 { get; set; }
        public virtual Section Section2 { get; set; }
        public virtual ICollection<Community> Community { get; set; }
        public virtual ICollection<Course> Course { get; set; }
    }
}
```

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

Section.cs

```

public virtual ICollection<Community> Community { get; set; }
public virtual ICollection<Course> Course { get; set; }
//To print the object
public override string ToString()
{
    return "SectionID: " + SectionID + " SectionName: " + SectionName + " CourseID: " + CourseID;
}

```

Students.cs

```

namespace Student_Attendance_Management_System
{
    using System;
    using System.Collections.Generic;

    public partial class Student : Community
    {
        //Constructor
        public Student() { }
        public Student(string name, string password, int cID, string uName)
            : base(name, password, cID, uName)
        {
        }
        //To print the object
        public override string ToString()
        {
            return base.ToString();
        }
    }
}

```

```
namespace Student_Attendance_Management_System
{
    using System;
    using System.Data.Entity;
    using System.Data.Entity.Infrastructure;

    public partial class StudentAttendanceManagementdbContext : DbContext
    {
        public StudentAttendanceManagementdbContext()
            : base("name=StudentAttendanceManagementdbContext")
        {}

        protected override void OnModelCreating(DbModelBuilder modelBuilder)
        {
            throw new UnintentionalCodeFirstException();
        }

        public DbSet<Admin> Admin { get; set; }
    }
}
```

Ready Ln 20 Col 10 Ch 10 09:54 p INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows ID: 716-628-9909 Stop Share

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Quick Launch (Ctrl+Q)

Database Explorer

Toolbox

Section.cs Student.cs StudentAttendanceManagementdbModel.cs x StudentAttendance...edmx [Diagram1] Attendance.cs

Student Attendance Management System.StudentAttendanceManagement v StudentAttendanceManagementdbEntities()

```
    throw new UnintentionalCodeFirstException(); }

    public DbSet<Admin> Admin { get; set; }

    public DbSet<Attendance> Attendance { get; set; }

    public DbSet<Community> Community { get; set; }

    public DbSet<Course> Course { get; set; }

    public DbSet<Section> Section { get; set; }

}
```

Solution Explorer

Search Solution Explorer (Ctrl+.)

- ▶ Admin.cs
- ▶ Attendance.cs
- ▶ Community.cs
- ▶ Course.cs
- ▶ Section.cs
- ▶ Student.cs
- ▶ StudentAttendanceMangementdbModel.cs
- ▶ Teacher.cs
- ▶ StudentForm.cs
- ▶ TeacherAttendance.cs
- ▶ TeacherForm.cs

Properties

100% Error List Output

Ready Ln 20 Col 10 Ch 10 09:55 p INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU

Student.cs StudentAttendanceManagementdbModel.cs StudentAttendance...edmx [Diagram1] Attendance.cs Teacher.cs

Student_Attendance_Management_System.Teacher

```

namespace Student_Attendance_Management_System
{
    using System;
    using System.Collections.Generic;

    public partial class Teacher : Community
    {
        //Constructor
        public Teacher() { }
        public Teacher(string name, string password, int cID, string UName)
            : base(name, password, cID, UName)
        {
        }
        //To print the object
        public override string ToString()
        {
            return base.ToString();
        }
    }
}

```

100 % Error List Output

Ready Ln 23 Col 30 Ch 30 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU

Teacher.cs StudentForm.cs [Design] StudentForm.cs AddStudent.cs [Design] AddStudents.cs

Student_Attendance_Management_System.AddStudent

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Student_Attendance_Management_System
{
    public partial class AddStudent : Form
    {
        StudentAttendanceManagementdbEntities db = new StudentAttendanceManagementdbEntities();

        public AddStudent()
        {

            InitializeComponent();
        }

        private void label2_Click(object sender, EventArgs e)
        {

        }
}

```

100 % Error List Output

Ready Ln 31 Col 13 Ch 13 INS

Search Solution Explorer (Ctrl+.)

Solution Explorer

- Student_Attendance_Management_System
 - Properties
 - References
 - Resources
 - AddStudent.cs
 - AddTeacher.cs
 - AdminForm.cs
 - App.config
 - Form1.cs

Properties

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

private void AddStudent_Load(object sender, EventArgs e)
{
}

private void button1_Click(object sender, EventArgs e)
{
    try{

        string StudentName = textBox1.Text;
        string UserName = textBox3.Text;
        string Password = textBox4.Text;
        Student s = new Student { Name = StudentName, Password = Password, UserName = UserName };
        db.Community.Add(s);
        db.SaveChanges();
        MessageBox.Show("Student Added Successfully", "Add", MessageBoxButtons.OK, MessageBoxIcon.Information);
    }

    catch{
        MessageBox.Show("Can't Add Student, Because There Is Error in Entered Data", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}

private void textBox2_TextChanged(object sender, EventArgs e)
{
}
}

```

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows ID: 716-628-9909 Stop Share Quick Launch (Ctrl+Q) X

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Database Explorer Toolbox StudentForm.cs AddStudent.cs [Design] AddStudent.cs AddTeacher.cs [Design] AddTeacher.cs [Design] StudentForm.cs [Design]

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Student_Attendance_Management_System
{
    public partial class AddTeacher : Form
    {
        StudentAttendanceManagementdbEntities db = new StudentAttendanceManagementdbEntities();

        public AddTeacher()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            try
            {
                string TeacherName = textBox1.Text;
                string UserName = textBox3.Text;
            }
        }
    }
}

```

100 % Error List Output

Ready Ln 52 Col 13 Ch 13 INS 09:56 p E:/T/F/V

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows ID: 716-628-9909 Stop Share Quick Launch (Ctrl+Q) X

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Database Explorer Toolbox StudentForm.cs AddStudents.cs [Design] AddStudent.cs AddTeacher.cs [Design] AddTeacher.cs [Design] StudentForm.cs [Design] Teacher.cs

```

string UserName = textBox3.Text;
string Password = textBox4.Text;
Teacher t = new Teacher { Name = TeacherName, Password = Password, UserName = UserName };
db.Community.Add(t);
db.SaveChanges();
MessageBox.Show("Teacher Added Successfully", "Add", MessageBoxButtons.OK, MessageBoxIcon.Information);
}

catch{
    MessageBox.Show("Can't Add Teacher, Because There Is Error in Entered Data", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
}

private void AddTeacher_Load(object sender, EventArgs e)
{
}

```

100 % Error List Output

Ready Ln 52 Col 13 Ch 13 INS 09:56 p E:/T/F/V

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows ID: 716-628-9909 Stop Share Quick Launch (Ctrl+Q) X

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Database Explorer Toolbox

AdminForm.cs* StudentForm.cs AddStudent.cs [Design] AddTeacher.cs [Design] AddTeacher.cs

```

public partial class AdminForm : Form
{
    public AdminForm()
    {
        InitializeComponent();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        this.Hide();
        AddTeacher Addt = new AddTeacher();

        Addt.ShowDialog();
        this.Show();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        this.Hide();
        Addstudent Adds = new AddStudent();

        Adds.ShowDialog();
        this.Show();
    }

    private void AdminForm_Load(object sender, EventArgs e)
    {
    }

```

100 % Error List Output

Ready Ln 40 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows ID: 716-628-9909 Stop Share Quick Launch (Ctrl+Q) X

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Database Explorer Toolbox

AdminForm.cs* AddStudents.cs [Design] AddStudent.cs AddTeacher.cs [Design] AddTeacher.cs Form1.cs [Design] Form1.cs

```

public partial class Form1 : Form
{
    public Form1()
    {
        InitializeComponent();
    }

    private void label2_Click(object sender, EventArgs e)
    {

    }

    private void button1_Click(object sender, EventArgs e)
    {
        this.Hide();
        Login l = new Login();
        l.ShowDialog();
        this.Show();
    }

    private void Form1_Load(object sender, EventArgs e)
    {
    }

```

100 % Error List Output

Ready Ln 35 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```
public partial class Login : Form
{
    public Login()
    {
        InitializeComponent();
    }

    private void textBox1_TextChanged(object sender, EventArgs e)
    {
    }

    private void textBox2_TextChanged(object sender, EventArgs e)
    {
    }

    private void button1_Click(object sender, EventArgs e)
    {
        StudentAttendanceManagementdbEntities db = new StudentAttendanceManagementdbEntities();

        if (comboBox1.Text == "Admin")
        {
            var aQuery = from a in db.Admin
                         where ((a.UserName == textBox1.Text) && (a.Password == textBox2.Text))
                         select a;
            if (aQuery.Count() != 0)
            {
                this.Hide();
                AdminForm f = new AdminForm();
                f.ShowDialog();
                this.Show();
            }
            else
            {
                MessageBox.Show("Error In username or password!", "Not found", MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
        }

        if (comboBox1.Text == "Teacher")
        {
            var tQuery = from t in db.Community
                         where ((t.UserName == textBox1.Text) && (t.Password == textBox2.Text))
                         select t;
            if (tQuery.Count() != 0)
            {
                this.Hide();
                TeacherForm f = new TeacherForm();
                f.ShowDialog();
                this.Show();
            }
            else
            {
                MessageBox.Show("Error In username or password!", "Not found", MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
        }
    }
}
```

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```
where ((a.UserName == textBox1.Text) && (a.Password == textBox2.Text))

select a;

if (aQuery.Count() != 0)
{
    this.Hide();
    AdminForm f = new AdminForm();
    f.ShowDialog();
    this.Show();
}

else
{
    MessageBox.Show("Error In username or password!", "Not found", MessageBoxButtons.OK, MessageBoxIcon.Error);
}

if (comboBox1.Text == "Teacher")
{
    var tQuery = from t in db.Community
                 where ((t.UserName == textBox1.Text) && (t.Password == textBox2.Text))
                 select t;
    if (tQuery.Count() != 0)
    {
        this.Hide();
        TeacherForm f = new TeacherForm();
        f.ShowDialog();
        this.Show();
    }
    else
    {
        MessageBox.Show("Error In username or password!", "Not found", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}
```

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

AdminForm.cs* AddTeacher.cs [Design] AddTeacher.cs Form1.cs [Design] Form1.cs Login.cs [Design] Login.cs

Student_Attendance_Management_System.Login

```

        where ((t.UserName == textBox1.Text) && (t.Password == textBox2.Text))

        select t;

        if (tQuery.Count() != 0)
        {
            int teacherID = tQuery.ToList().ElementAt(0).CommunityID;
            string teacherName = tQuery.ToList().ElementAt(0).Name;
            string uName = tQuery.ToArray().ElementAt(0).UserName;
            this.Hide();
            TeacherForm f = new TeacherForm(teacherID, teacherName, uName);

            f.ShowDialog();
            this.Show();
        }
        else
        {
            MessageBox.Show("Error In username or password!", "Not found", MessageBoxButtons.OK, MessageBoxIcon.Error);
        }
    }

    if (comboBox1.Text == "Student")
    {

```

100 % Error List Output

Ready Ln 132 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

AdminForm.cs* AddTeacher.cs [Design] AddTeacher.cs Form1.cs [Design] Form1.cs Login.cs [Design] Login.cs

Student_Attendance_Management_System.Login

```

        var sQuery = from s in db.Community

        where ((s.UserName == textBox1.Text) && (s.Password == textBox2.Text))

        select s;

        if (sQuery.Count() != 0)
        {
            int studentID = sQuery.ToList().ElementAt(0).CommunityID;
            string studentName = sQuery.ToList().ElementAt(0).Name;
            string userName = sQuery.ToList().ElementAt(0).UserName;

            this.Hide();
            StudentForm f = new StudentForm(studentID, studentName, userName);

            f.ShowDialog();
            this.Show();
        }
        else
        {
            MessageBox.Show("Error In username or password!", "Not found", MessageBoxButtons.OK, MessageBoxIcon.Error);
        }
    }


```

100 % Error List Output

Ready Ln 132 Col 13 Ch 13 INS

Solution Explorer

Search Solution Explorer (Ctrl+.)

- ** References
- Resources
- AddStudent.cs
- AddTeacher.cs
- AdminForm.cs
- App.config
- Form1.cs
- Login.cs
- packages.config
- Program.cs

Properties

Ready Ln 132 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

public partial class RegisterForm : Form
{
    private static int attendanceID = 14;

    StudentAttendanceManagementdbEntities db = new StudentAttendanceManagementdbEntities();

    int[] courseIDes;
    int[] studentIDes;
    int[] sectionIDes;

    public RegisterForm()
    {
        InitializeComponent();
        loadStudents();
        loadSections();
        loadCourses();
    }

    private void loadStudents()
    {
        var list = from x in db.Community.OfType<Student>()
                    orderby x.CommunityID ascending
    }
}

select new { x.Name, x.CommunityID };
studentIDes = new int[list.Count()];
int index = 0;
foreach (var elem in list)
{
    comboBox3.Items.Add(elem.CommunityID);
    studentIDes[index] = elem.CommunityID;
    index++;
}
}

private void loadSections()
{
    var list = from x in db.Section
                orderby x.SectionName ascending
    select new { x.SectionName, x.SectionID };

    sectionIDes = new int[list.Count()];
    int index = 0;
    foreach (var elem in list)
    {
        comboBox2.Items.Add(elem.SectionName);
        sectionIDes[index] = elem.SectionID;
        index++;
    }
}

```

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start | Debug | Any CPU | Table View | Quick Launch (Ctrl+Q)

AdminForm.cs* Form1.cs [Design] Form1.cs Login.cs [Design] Login.cs RegisterForm.cs [Design] RegisterForm.cs

```

foreach (var elem in list)
{
    comboBox1.Items.Add(elem.SectionName);
    sectionIDes[index] = elem.SectionID;
    index++;
}
private void loadCourses()
{
    var list = from x in db.Course
               orderby x.CourseName ascending
               select new { x.CourseName, x.CourseID };

    courseIDes = new int[list.Count()];
    int index = 0;
    foreach (var elem in list)
    {
        comboBox2.Items.Add(elem.CourseName);
    }
}

```

100 % Error List Output

Ready Ln 103 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start | Debug | Any CPU | Table View | Quick Launch (Ctrl+Q)

AdminForm.cs* Form1.cs [Design] Form1.cs Login.cs [Design] Login.cs RegisterForm.cs [Design] RegisterForm.cs

```

courseIDes[index] = elem.CourseID;
index++;
}
private void RegisterForm_Load(object sender, EventArgs e)
{
}
private void comboBox2_SelectedIndexChanged(object sender, EventArgs e)
{
}
private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
{
}
private void textBox1_TextChanged(object sender, EventArgs e)
{
}

```

100 % Error List Output

Ready Ln 103 Col 13 Ch 13 INS

Solution Explorer

- AddTeacher.cs
- AdminForm.cs
- App.config
- Form1.cs
- Login.cs
- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceManagement

Properties

Search Solution Explorer (Ctrl+.)

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

private void textBox1_TextChanged_1(object sender, EventArgs e)
{
}

private void button1_Click_1(object sender, EventArgs e)
{
    try
    {
        if (comboBox3.SelectedIndex > -1)
        {
            int sID = studentIdes[comboBox3.SelectedIndex]; //student id
            if (comboBox1.SelectedIndex > -1)
            {
                int secID = sectionIdes[comboBox1.SelectedIndex];// section id
                if (comboBox2.SelectedIndex > -1)
                {
                    int cID = courseIdes[comboBox2.SelectedIndex];
                    DateTime currentDate = DateTime.Now;
                    Attendance a = new Attendance { AttendanceID = ++attendanceID, CommunityID = sID
                        , SectionID = secID, CourseID = cID, Date = currentDate, StudentHours = 0
                    };
                    /*
                     * a.AttendanceID = attendanceID++;
                     * a.CommunityID = sID;
                    */
                }
            }
        }
    }
}

private void button2_Click_1(object sender, EventArgs e)
{
    try
    {
        if (comboBox3.SelectedIndex > -1)
        {
            int sID = studentIdes[comboBox3.SelectedIndex]; //student id
            if (comboBox1.SelectedIndex > -1)
            {
                int secID = sectionIdes[comboBox1.SelectedIndex];// section id
                if (comboBox2.SelectedIndex > -1)
                {
                    int cID = courseIdes[comboBox2.SelectedIndex];
                    DateTime currentDate = DateTime.Now;
                    Attendance a = new Attendance { AttendanceID = ++attendanceID, CommunityID = sID
                        , SectionID = secID, CourseID = cID, Date = currentDate, StudentHours = 0
                    };
                    /*
                     * a.AttendanceID = attendanceID++;
                     * a.CommunityID = sID;
                    */
                }
            }
        }
    }
}

```

Ready

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

db.Attendance.Add(a);

db.SaveChanges();

MessageBox.Show("Registration has been added successfully ..", "Add", MessageBoxButtons.OK, MessageBoxIcon.Information);
}

// else
//{
// MessageBox.Show("you must choose Course from ComboBox !", "Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Error);
//}

// else
//{
// MessageBox.Show("you must choose Section from ComboBox !", "Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Error);
//}

// else
//{
// MessageBox.Show("you must choose Student from ComboBox !", "Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Error);
//}

}
catch
{
    MessageBox.Show("Wrong Information !", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
}

```

Ready

The screenshot shows the Microsoft Visual Studio Express 2012 interface with the following details:

- Title Bar:** Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows
- Toolbar:** FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
- Solution Explorer:** Shows project files including AdminForm.cs*, Form1.cs [Design], Form1.cs, Login.cs [Design], RegisterForm.cs [Design], RegisterForm.cs, and RegisterForm.cs.
- Code Editor:** The RegisterForm.cs file is open, displaying C# code for a Windows application. The code includes error handling logic using try-catch blocks and MessageBox.Show() calls for user feedback.
- Status Bar:** Shows "Ready", "Ln 103", "Col 13", "Ch 13", and "09:59 AM".

```
    // MessageBox.Show("you must choose Student from ComboBox !", "Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Error);
    //}

    }

    catch
    {
        MessageBox.Show("Wrong Information !", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}
```

The screenshot shows the Microsoft Visual Studio Express 2012 interface with the following details:

- Title Bar:** Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows
- ID:** 716-628-9905
- Stop Share:** Stop button
- File Menu:** FILE, EDIT, VIEW, PROJECT, BUILD, DEBUG, TEAM, TOOLS, TEST, WINDOW, HELP
- Toolbar:** Standard toolbar with icons for New, Open, Save, Print, etc.
- Solution Explorer:** Shows the project structure:
 - StudentAttendanceManagementSystem
 - StudentAttendanceManagement
 - StudentForm.cs
 - TeacherAttendance.cs
 - TeacherModifySection.cs
 - TeacherViewReportForm.cs
- Properties Window:** Properties for the selected item.
- Code Editor:** The StudentForm.cs file is open, showing C# code for a Windows Form application. The code includes declarations for EntityDataSource, course, courseHourSession, Section, courseContactHour, studentName, and userName. It also contains a constructor for the StudentForm class and a private void loadCourses() method.
- Status Bar:** Ready, Ln 84, Col 13, Ch 13, INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
... Start Debug Any CPU ... Table View ...
Quick Launch (Ctrl+Q) X
RegisterForm.cs [Design] RegisterForm.cs StudentAttendance...edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs + X
Student_Attendance_Management_System.StudentForm
var list = from a in db.Attendance
join c in db.Course on a.CourseID equals c.CourseID
where a.CommunityID == studentID
select new { c.CourseName, c.CourseID, c.ContactHours };

courseIDes = new int[list.Count()];
courseContactHour = new int[list.Count()];
int index = 0;
foreach (var elem in list)
{
    comboBox2.Items.Add(elem.CourseName);
    courseIDes[index] = elem.CourseID;
    courseContactHour[index] = elem.ContactHours;
    index++;
}

private void loadSections()
{
    var list = from a in db.Attendance
join c in db.Section on a.SectionID equals c.SectionID
where a.CommunityID == studentID
select new { c.SectionName, c.SectionID };

SectionIDes = new int[list.Count()];
}

```

Ready

100 % Error List Output

Ln 84 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
... Start Debug Any CPU ... Table View ...
Quick Launch (Ctrl+Q) X
RegisterForm.cs [Design] RegisterForm.cs StudentAttendance...edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs + X
Student_Attendance_Management_System.StudentForm
int index = 0;
foreach (var elem in list)
{
    comboBox1.Items.Add(elem.SectionName);
    SectionIDes[index] = elem.SectionID;

    index++;
}

private void StudentForm_Load(object sender, EventArgs e)
{
}

private void button1_Click(object sender, EventArgs e)
{

    if (comboBox1.SelectedIndex > -1)
    {
        int secID = SectionIDes[comboBox1.SelectedIndex];
        if (comboBox2.SelectedIndex > -1)
        {
}

```

Ready

100 % Error List Output

Ln 84 Col 13 Ch 13 INS

Solution Explorer

Search Solution Explorer (Ctrl+.)

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceManagement
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Properties

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
ID: 716-628-9909 Stop Share
Quick Launch (Ctrl+Q) X
Database Explorer Toolbox
RegisterForm.cs [Design] RegisterForm.cs StudentAttendance...edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs + X
Student_Attendance_Management_System.StudentForm
int cID = courseides[comboBox2.SelectedIndex];
int contacthour = courseContactHour[comboBox2.SelectedIndex];
var query = from elem in db.Attendance
           where (elem.CourseID == cID & elem.CommunityID == studentID)// match the records.
           select new { elem.CommunityID, elem.StudentHours };
var x = query.ToList().ElementAt(0);
int absenceHour = (contacthour*15 - x.StudentHours);
MessageBox.Show("Number Of absence hour per week: " + absenceHour, "Absence hour", MessageBoxButtons.OK, MessageBoxIcon.Information);
}

private void button2_Click(object sender, EventArgs e)
{
    if (comboBox1.SelectedIndex > -1)
    {
        int secID = Sectionides[comboBox1.SelectedIndex];
        if (comboBox2.SelectedIndex > -1)
        {

            int cID = courseides[comboBox2.SelectedIndex];
            int contacthour = courseContactHour[comboBox2.SelectedIndex];
            var query = from elem in db.Attendance
                       where (elem.CourseID == cID & elem.CommunityID == studentID)// match the records.
                       select new { elem.CommunityID, elem.StudentHours };
            var x = query.ToList().ElementAt(0);

            double attendancerate = (x.StudentHours / ((double)contacthour * 15)) * 100;
            double absenceRate = (100 - attendancerate);

            MessageBox.Show("Absence Rate: " + absenceRate.ToString("0.00") + "%", "Absence Rate", MessageBoxButtons.OK, MessageBoxIcon.Information);
        }
    }
}

private void textBox2_TextChanged(object sender, EventArgs e)
{
}

```

100 % Error List Output

Ready

LN 84 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
ID: 716-628-9909 Stop Share
Quick Launch (Ctrl+Q) X
Database Explorer Toolbox
RegisterForm.cs [Design] RegisterForm.cs StudentAttendance...edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs + X
Student_Attendance_Management_System.StudentForm
int contacthour = courseContactHour[comboBox2.SelectedIndex];
var query = from elem in db.Attendance
           where (elem.CourseID == cID & elem.CommunityID == studentID)// match the records.
           select new { elem.CommunityID, elem.StudentHours };
var x = query.ToList().ElementAt(0);

double attendancerate = (x.StudentHours / ((double)contacthour * 15)) * 100;
double absenceRate = (100 - attendancerate);

MessageBox.Show("Absence Rate: " + absenceRate.ToString("0.00") + "%", "Absence Rate", MessageBoxButtons.OK, MessageBoxIcon.Information);
}

private void textBox2_TextChanged(object sender, EventArgs e)
{
}

```

100 % Error List Output

Ready

LN 84 Col 13 Ch 13 INS

Solution Explorer

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceManagement
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Search Solution Explorer (Ctrl+.)

Properties

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows [ID: 716-628-9909] Stop Share Quick Launch (Ctrl+Q) X

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

RegisterForm.cs [Design] RegisterForm.cs StudentAttendance..edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs X

Student_Attendance_Management_System.StudentForm

```

        }

        private void textBox2_TextChanged(object sender, EventArgs e)
        {
        }

        private void button3_Click(object sender, EventArgs e)
        {
            Community c1 = new Student();
            c1.CommunityID = studentID;
            c1.Name = studentName;
            c1.UserName = userName;

            MessageBox.Show(c1.printReport(),"Student Information",MessageBoxButtons.OK,MessageBoxIcon.Information);
        }
    }
}

```

100 % Error List Output

Ready Ln 84 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows [ID: 716-628-9909] Stop Share Quick Launch (Ctrl+Q) X

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

StudentAttendance..edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs TeacherAttendance.cs [Design] TeacherAttendance.cs X

Student_Attendance_Management_System.TeacherAttendance

```

    {
        public partial class TeacherAttendance : Form
        {
            StudentAttendanceManagementdbEntities db = new StudentAttendanceManagementdbEntities();

            int[] courseIDs;
            int[] courseHourSession;
            int[] SectionIDs;
            int[] courseContactHour;
            int ContactHours = 0;

            DataGridViewCheckBoxColumn check = new DataGridViewCheckBoxColumn();

            int cID = -1;
            int secID = -1;
            int hourPerSession = 0;
            List<int> std = new List<int>(); //students who we want to mark them as attended for this session

            bool addchek = false;

            public TeacherAttendance()
            {
                InitializeComponent();
                loadSections();
                loadCourses();
            }
        }
    }
}

```

100 % Error List Output

Ready Ln 192 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

StudentAttendance.edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs TeacherAttendance.cs [Design] TeacherAttendance.cs

Student_Attendance_Management_System.TeacherAttendance TeacherAttendance_Load(object sender, EventArgs e)

```

private void loadCourses()
{
    var list = from x in db.Course
               orderby x.CourseName ascending
               select new { x.CourseName, x.CourseID, x.HoursPerSession };

    courseIDs = new int[list.Count()];
    courseHourSession = new int[list.Count()];

    int index = 0;
    foreach (var elem in list)
    {
        comboBox2.Items.Add(elem.CourseName);
        courseIDs[index] = elem.CourseID;
        courseHourSession[index] = elem.HoursPerSession;
        index++;
    }
}

```

100 % Error List Output

Ready Ln 192 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

StudentAttendance.edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs TeacherAttendance.cs [Design] TeacherAttendance.cs

Student_Attendance_Management_System.TeacherAttendance TeacherAttendance_Load(object sender, EventArgs e)

```

private void loadSections()
{
    var list = from x in db.Section
               orderby x.SectionName ascending
               select new { x.SectionName, x.SectionID };

    SectionIDs = new int[list.Count()];
    int index = 0;

    foreach (var elem in list)
    {
        comboBox1.Items.Add(elem.SectionName);
        SectionIDs[index] = elem.SectionID;

        index++;
    }
}

```

100 % Error List Output

Ready Ln 192 Col 13 Ch 13 INS

Solution Explorer

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceManagement
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Properties

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

private void comboBox2_SelectedIndexChanged(object sender, EventArgs e)
{
    dataGridView1.Refresh();

    if (comboBox1.SelectedIndex > -1)
    {
        int secID = SectionIdes[comboBox1.SelectedIndex];
        if (comboBox2.SelectedIndex > -1)
        {
            cID = courseides[comboBox2.SelectedIndex];

            hourPerSession = courseHourSession[comboBox2.SelectedIndex];
            button1.Enabled = true;
            var list = (from a in db.Attendance
                        join s in db.Community on a.CommunityID equals s.CommunityID
                        where a.CourseID == cID && a.SectionID == secID
                        select new { s.Name, s.CommunityID });

            dataGridView1.DataSource = list.ToList();
            if (addchek == false)
            {
                dataGridView1.Columns.Add(check);
                check.HeaderText = "Select Student";
                check.Name = "check";
                addchek = true;
            }
        }
        else
        {
            MessageBox.Show("you must choose from ComboBox !", "Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Error);
        }
    }
}

private void button2_Click(object sender, EventArgs e)
{
    this.Hide();
    TeacherViewReportForm tt = new TeacherViewReportForm();
    tt.ShowDialog();
    this.Show();
}

private void button1_Click(object sender, EventArgs e)
{
    int i = 0;

    foreach (DataGridViewRow row in dataGridView1.Rows)
    {
        if (Convert.ToBoolean(row.Cells[check.Name].Value) == true)
        {

```

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows [ID: 716-628-9909] Stop Share Quick Launch (Ctrl+Q) X

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

StudentAttendance.edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs TeacherAttendance.cs [Design] TeacherAttendance.cs

Student_Attendance_Management_System.TeacherAttendance TeacherAttendance_Load(object sender, EventArgs e)

```

        {
            std.Insert(std.Count, Convert.ToInt32(row.Cells["CommunityID"].Value));
            i++;
        }
        string s = "";
        foreach (int id in std)
        {
            s += id + "\n";
            //Update student attendance//<-----
            var update = from elem in db.Attendance
                        where elem.CommunityID == id && elem.CourseID == cID// match the records.
                        select elem;
            Attendance a = update.ToList().ElementAt(0);
            a.StudentHours = a.StudentHours + hourPerSession;
            a.Date = DateTime.Now;
            db.SaveChanges();
        }

        //update course Contact Hours//
        var updatedc = from elem in db.Course
                      where (elem.CourseID== cID)// match the records.
                      select elem;
        var c = updatedc.ToList().ElementAt(0);
        //c.ContactHours = c.ContactHours + hourPerSession;

        db.SaveChanges();
        MessageBox.Show("Students has Marked thier Attendance successfully ..", "Success", MessageBoxButtons.OK, MessageBoxIcon.Information);

    }
}

private void TeacherAttendance_Load(object sender, EventArgs e)
{
}

```

100 % Error List Output

Ready Ln 192 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows [ID: 716-628-9909] Stop Share Quick Launch (Ctrl+Q) X

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

StudentAttendance.edmx [Diagram1] StudentForm.cs [Design] StudentForm.cs TeacherAttendance.cs [Design] TeacherAttendance.cs RegisterForm.cs

Student_Attendance_Management_System.TeacherAttendance TeacherAttendance_Load(object sender, EventArgs e)

```

        db.SaveChanges();
    }

    //update course Contact Hours//
    var updatedc = from elem in db.Course
                  where (elem.CourseID== cID)// match the records.
                  select elem;
    var c = updatedc.ToList().ElementAt(0);
    //c.ContactHours = c.ContactHours + hourPerSession;

    db.SaveChanges();
    MessageBox.Show("Students has Marked thier Attendance successfully ..", "Success", MessageBoxButtons.OK, MessageBoxIcon.Information);

}

private void TeacherAttendance_Load(object sender, EventArgs e)
{
}

```

100 % Error List Output

Ready Ln 192 Col 13 Ch 13 INS

Solution Explorer

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceManagement.cs
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Properties

```
public partial class TeacherForm : Form
{
    int tID;
    string fName;
    string uName;
    public TeacherForm(int tID, string fName, string uName)
    {
        this.tID = tID;
        this.fName = fName;
        this.uName = uName;
        InitializeComponent();
        textBox2.Text = fName;
        textBox3.Text = (tID).ToString();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        this.Hide();
        TeacherAttendance t = new TeacherAttendance();
        t.ShowDialog();
        this.Show();
    }

    private void button2_Click(object sender, EventArgs e)
    {
    }

    private void button3_Click(object sender, EventArgs e)
    {
    }

    private void button2_Click_1(object sender, EventArgs e)
    {
        this.Hide();
        TeacherModifySection t = new TeacherModifySection();
        t.ShowDialog();
        this.Show();
    }

    private void button3_Click_1(object sender, EventArgs e)
    {
        this.Hide();
        RegisterForm r = new RegisterForm();
        r.ShowDialog();
        this.Show();
    }

    private void TeacherForm_Load(object sender, EventArgs e)
    {
    }
}
```

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU

Table View

Quick Launch (Ctrl+Q)

StudentForm.cs TeacherAttendance.cs [Design] TeacherAttendance.cs TeacherForms.cs [Design] TeacherForm.cs

Student_Attendance_Management_System.TeacherForm

```

        }

        private void button4_Click(object sender, EventArgs e)
        {
            Community c1 = new Teacher();
            c1.CommunityID = tID;
            c1.Name = tName;
            c1.UserName = uName;

            MessageBox.Show(c1.printReport(), "Teacher Information", MessageBoxButtons.OK, MessageBoxIcon.Information);
        }
    }
}

```

Solution Explorer

Search Solution Explorer (Ctrl+J)

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceMangement
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Properties

100 %

Error List Output

Ready

LN 67 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU

Table View

Quick Launch (Ctrl+Q)

TeacherAttendance.cs TeacherForm.cs [Design] TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs

Student_Attendance_Management_System.TeacherSection

```

    {

        public partial class TeacherModifySection : Form
        {
            StudentAttendanceManagementdbEntities db = new StudentAttendanceManagementdbEntities();

            public TeacherModifySection()
            {
                InitializeComponent();
            }

            private void button1_Click(object sender, EventArgs e)
            {
                try {

                    string SectionName = textBox1.Text;
                    int SectionID = Convert.ToInt32(textBox2.Text);
                    int CourseID = Convert.ToInt32(textBox3.Text);
                    Section c = new Section { SectionName = SectionName, CourseID = CourseID, SectionID = SectionID };
                    db.Section.Add(c);
                    db.SaveChanges();

                    MessageBox.Show("Section Added successfully", "Add", MessageBoxButtons.OK, MessageBoxIcon.Information);
                }
            }
        }
    }
}

```

Solution Explorer

Search Solution Explorer (Ctrl+J)

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceMangement
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Properties

100 %

Error List Output

Ready

LN 98 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
ID: 716-628-9909 Stop Share
Quick Launch (Ctrl+Q)
Database Explorer Solution Explorer
Toolbox Search Solution Explorer (Ctrl+J)
TeacherAttendance.cs TeacherForm.cs [Design] TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs
Student_Attendance_Management_System.TeacherModifySection TeacherModifySection_Load(object sender, EventArgs e)
    catch {
        MessageBox.Show("Wrong Information ", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}

private void button2_Click(object sender, EventArgs e) {
    try {
        int SID = int.Parse(textBox2.Text);
        var update = from elem in db.Section
                    where elem.SectionID == SID
                    select elem;
        Section s = update.ToList().ElementAt(0);
        s.SectionName = textBox1.Text;
        db.SaveChanges();
        MessageBox.Show("Section has updated successfully ..", "Update", MessageBoxButtons.OK, MessageBoxIcon.Information);
    }
    catch {
        MessageBox.Show("Wrong Information ", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}

```

Ready

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

```

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP
ID: 716-628-9909 Stop Share
Quick Launch (Ctrl+Q)
Database Explorer Solution Explorer
Toolbox Search Solution Explorer (Ctrl+J)
TeacherAttendance.cs TeacherForm.cs [Design] TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs
Student_Attendance_Management_System.TeacherModifySection TeacherModifySection_Load(object sender, EventArgs e)
    catch {
        MessageBox.Show("Wrong Information ", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}

private void button3_Click(object sender, EventArgs e) {
    try {
        int sID = int.Parse(textBox2.Text);
        var delete = from s in db.Section
                    where s.SectionID == sID
                    select s;
        List<Section> list = delete.ToList();
        Section del = list.First();
        db.Section.Remove(del);
        db.SaveChanges();
        MessageBox.Show("Section Deleted successfully", "Delete", MessageBoxButtons.OK, MessageBoxIcon.Information);
    }
    catch { MessageBox.Show("Wrong Information", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error); }
}

```

Ready

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

TeacherAttendance.cs TeacherForm.cs [Design] TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs

```

        Section del = list.First();

        db.Section.Remove(del);
        db.SaveChanges();

        MessageBox.Show("Section Deleted successfully", "Delete", MessageBoxButtons.OK, MessageBoxIcon.Information);
    }

    catch { MessageBox.Show("Wrong Information", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error); }

}

private void TeacherModifySection_Load(object sender, EventArgs e)
{
}
}

```

Solution Explorer

Search Solution Explorer (Ctrl+J)

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceMangement
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Properties

Error List Output

Ready

Ln 98 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs TeacherViewReportForm.cs [Design] TeacherViewReportForm.cs

```

public partial class TeacherViewReportForm : Form
{
    StudentAttendanceManagementdbEntities db = new StudentAttendanceManagementdbEntities();

    int[] courseIds;
    int[] SectionIdes;
    int[] courseContactHour;

    public TeacherViewReportForm()
    {
        InitializeComponent();

        loadCourses();
        loadSections();
    }

    private void loadCourses()
    {
        var list = from x in db.Course

```

Solution Explorer

Search Solution Explorer (Ctrl+J)

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceMangement
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Properties

Error List Output

Ready

Ln 196 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs TeacherViewReportForm.cs [Design] TeacherViewReportForm.cs

Student_Attendance_Management_System.TeacherViewReportForm

TeacherViewReportForm_Load(object sender, EventArgs e)

```

private void loadCourses()
{
    var list = from x in db.Course
               orderby x.CourseName ascending
               select new { x.CourseName, x.CourseID, x.ContactHours };

    courseIDs = new int[list.Count()];
    courseContactHour = new int[list.Count()];

    int index = 0;
    foreach (var elem in list)
    {
        comboBox2.Items.Add(elem.CourseName);
        courseIDs[index] = elem.CourseID;
        courseContactHour[index] = elem.ContactHours;
        index++;
    }
}

```

100 % Error List Output

Ready Ln 196 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs TeacherViewReportForm.cs [Design] TeacherViewReportForm.cs

Student_Attendance_Management_System.TeacherViewReportForm

TeacherViewReportForm_Load(object sender, EventArgs e)

```

private void loadSections()
{
    var list = from x in db.Section
               orderby x.SectionName ascending
               select new { x.SectionName, x.SectionID };

    SectionIDs = new int[list.Count()];

    int index = 0;
    foreach (var elem in list)
    {
        comboBox1.Items.Add(elem.SectionName);
        SectionIDs[index] = elem.SectionID;
        index++;
    }
}

```

100 % Error List Output

Ready Ln 196 Col 13 Ch 13 INS

Solution Explorer

- packages.config
- Program.cs
- RegisterForm.cs
- Report.cs
- StudentAttendanceMangement
- StudentForm.cs
- TeacherAttendance.cs
- TeacherForm.cs
- TeacherModifySection.cs
- TeacherViewReportForm.cs

Search Solution Explorer (Ctrl+.)

Properties

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs TeacherViewReportForm.cs [Design] TeacherViewReportForm.cs

Student_Attendance_Management_System.TeacherViewReportForm

```

private void button1_Click(object sender, EventArgs e)
{
}

if (comboBox1.SelectedIndex > -1)
{
    int sID = SectionID[comboBox1.SelectedIndex];
    if (comboBox2.SelectedIndex > -1)
    {
        int cID = courseID[comboBox2.SelectedIndex];
        int contacthour = courseContacthour[comboBox2.SelectedIndex];
        var query = from elem in db.Attendance
                    where (elem.CourseID == cID) && (elem.SectionID == sID)
                    select new { elem.CommunityID, elem.StudentHours };

        if (query.Count() > 0)
        {
            bool exist = false;
            string students = "";
            foreach (var x in query)
            {
                double AttendanceRate = (x.StudentHours / ((double)contacthour * 15)) * 100;
                double absenceRate = (100 - AttendanceRate);
            }
        }
    }
}

```

100 % Error List Output

Ready Ln 196 Col 13 Ch 13 INS

Student Attendance Management System - Microsoft Visual Studio Express 2012 for Windows

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST WINDOW HELP

Start Debug Any CPU Table View

TeacherForm.cs TeacherModifySection.cs [Design] TeacherModifySection.cs TeacherViewReportForm.cs [Design]* TeacherViewReportForm.cs TeacherForm.cs [Design]

Student_Attendance_Management_System.TeacherViewReportForm

```

if (absenceRate >= 25)
{
    exist = true;

    List<Student> qStd = (
        from elem in db.Community.OfType<Student>()

        where (elem.CommunityID == x.CommunityID)// match the records
        select elem).ToList();

    foreach (var y in qStd)
    {
        students += "Name: " + y.Name + ", ID: " + y.CommunityID + ", number Of absence hours per week: " + (contacthour - x.StudentHours) +
        ", Absence Rate: " + absenceRate.ToString("0.00") + "%\n";
    }
}

if (exist)
    MessageBox.Show("The Following students have 25% absence or more: \n" + students, "Report", MessageBoxButtons.OK, MessageBoxIcon.Information);
else

```

100 % Error List Output

Ready Ln 149 Col 29 Ch 29 INS

The screenshot shows three code editors side-by-side in Microsoft Visual Studio Express 2012:

- TeacherForm.cs**: Shows a method with a large if-else block. It checks if a variable 'exist' is true, then displays a message box. If false, it checks if 'students' is greater than 25, then displays another message box. If both conditions fail, it checks if 'exist' is false, then displays a third message box. Finally, it checks if 'exist' is null, then displays a fourth message box.
- TeacherModifySection.cs [Design]**: Shows the start of a private void method named TeacherViewReportForm_Load.
- TeacherViewReportForm.cs [Design]**: Shows the end of the TeacherViewReportForm_Load method, which calls button1_Click.

The status bar at the bottom indicates the code is at line 149, column 29, character 29, and the time is 10:06 PM.