



BULACAN POLYTECHNIC COLLEGE

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BACHELOR OF SCIENCE IN INFORMATION SYSTEMS

**Student Management System
of San Miguel - Meysulao High School**

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PROBLEM AND ITS BACKGROUND

Introduction

Background of the Study / Rationale

Education has been internationally recognized as an essential part of our lives. All advanced countries have higher levels of education in comparison to the level of education in developing and under-developed countries. Many institutions try to increase education quality by upgrading the management of school resources. Due to the increasing demand for better services of schools amidst the pandemic, the workload of teachers and non-teaching staff of these educational institutions have increased as well. Sykes (2021) conducted a survey in the United States where they discovered that teachers worked additional 5 hours a day to accommodate online learnings since the pandemic began. The work of Teachers in the Philippines is not only limited to teaching students and distributing modules, but they are also doing a lot of reports and filling out school forms, such as SF10. Due to this, they are more prone to commit errors whenever they are creating student forms because of lack of automatic validation. San Miguel - Meysulao High School location is also a flood-prone area making the students' documents and school forms at risk of getting destroyed by flood.

Therefore, the researchers developed a system where teachers and registrar of the school can easily manage students' data including their SF10 or student permanent record. The system will prevent human-errors such as typographical error and it can also provide soft-copies of students' SF10 that can be saved to local computer storage for safekeeping. The grades, other information and personal details of the students are also saved to the database.

The system was developed using Visual Studio IDE 2019 and programmed using C#, while the database implemented is MS Access, allowing the system to run in Windows OS. This Student Management System is engaged in providing services to students, teachers, non-teaching staff and the school. In a nutshell, the Student Management System of San Miguel – Meysulao High School modernized the creation of school forms by simplifying and automating processes and addressing the needs of all users, helping them to be more efficient in their respective roles and lessening the workload of teachers. It also minimizes errors in school forms and keeps them safe from natural disasters such as floods and typhoons which are very common in the area.

Statement of the Problem

This study seeks to develop a student management system for San Miguel - Meysulao High School to modernize management of students and their school forms.

Specifically, this study will attempt to answer the following questions:

1. How does the school manage the students' information and data with the current manual system?
2. How does the new automated student management system improve the management of students' data, information, and school forms?

Theoretical Framework

Gone are the days when the Form 137 of the students were handwritten. It is prone to errors; the ink of the pen can fade throughout time and the creation of it is time-consuming and hard. Due to lack of copy and database, it is hard to produce copies and thus, making it vulnerable to get lost and or destroyed by natural causes. This system will eliminate or at least lessen what mentioned above. With the help of validation, automatic computation and digitalizing the form, the system

will modernize the management of students' information and data in a much more efficient, faster, and error-less way.

Conceptual Framework

The concept of the proposed system is to develop a student management system for SMMHS. The researchers are determined to create a system where it will help the teachers to lessen their workload by digitizing the data and information of every student. It can save time, minimize errors, and provide soft copies of their school forms.

The researcher based the design and the development of the system from the conceptual framework.

The study was conceptualized using a research paradigm that consists of three frames: the input, the process, and the output.

The INPUT phase was made up of resources and information that will be utilized in the system's design and development. It contains all the necessary facts to assist the proponent in achieving the intended result. It also includes some interviews concerned in developing the study and researching on how the school and teachers manage the students' information and school forms.

The PROCESS phase in which the researchers defined the processes to be used, such as defining and analyzing all problems in the existing system, documentation, planning, and presentation of the system, which would eventually lead to designing or programming the developed system, identifying and debugging logical and syntax errors, and testing, validating, and implementing the developed system.

The OUTPUT phase, the final output proceeded after gathering and integrating the essential input and conducting the step-by-step operations in the process stage. The Student Management System of San Miguel - Meysulao High School was developed.



Figure 1. input-process-output model (IPO model)

Significance of Study

The system will merit the following:

•Teachers

The proposed system will benefit the teachers because it will help them to properly create the forms of the students with a minimized to zero errors.

•Registrar

Once the system is implemented, it will help the registrar to collect and safekeep the forms of the students. With the help of the database, the data and information of the students can be obtained at any time.

•School

The proposed system will help the school to handle the forms and documents of the students which is vital in every student's life.

•Students and Parents

This system will help both the parents and students by giving them assurance that the students' school forms are safe and will not be lost and they can get a copy of it easily for whatever legal purpose it may serve.

•Future Researchers

This system will become a guide to the future researchers of reference on their own project.

Scope and Delimitation

This research is limited to teachers and registrar of the San Miguel – Meysulao High School, the researcher gathers information about how the new system will impact the work of teachers compared to the manual and old way.

The study will examine the teacher's and registrar's performances and point of view regarding the automated student management system.

Research Design

In this study, the researcher chose qualitative research because it best served to understand views and perceptions. It offers insight into the teachers' opinions and their experiences on the previous manual system which helps in developing this study and the automated student management system.

Research Locale

This study was conducted at San Miguel Meysulao High School, this school was selected since they are using a manual system to manage their students' information and data despite risks of natural disasters and human-error.

Population and Sampling

The respondent of this research includes one senior high teacher, two junior high teachers and the school registrar. They are all active employees of San Miguel - Meysulao High School and have been teachers for more than 2 years in the school.

Research Instrument

Interviews will be used as the main data-gathering instrument for this study. The researcher will use the unstructured interview which is a less formal type of interview in which sets of questions may be used, the interviewer is free to modify the sequence of questions, change the wordings and sometimes, add or explain them during the interaction. 10 questions will be given to each respondent.

Data Processing Methods

The researchers will secure the permission to conduct the study from the School Head of San Miguel - Meysulao High School. After which, they will select 4 teachers from both senior high and junior high departments including the registrar which they will interview personally.

After collecting the data, researchers will compare the answers of respondents. The result would be the basis to find out what the school and the teachers need to develop a student management system that is fit for the school.

Discussion

The interview that was conducted revealed that the teachers of San Miguel - Meysulao High School are having a hard-time managing their students' data, information and forms due to the fact that there is no systematic way of student management in the school. According to respondent #3, she used Microsoft Word to create Form 137 (now known as SF10) before. Respondent #2 revealed that the previous batches of students' form 137 were handwritten and the respondent from the senior high department stated that they are using the excel version of the school forms.

The researchers also determined that there are no electronic and even non-electronic databases used in the school which means only the teachers have the copy of the school forms and it is their own discretion how they will back-up the school forms knowing the fact that there are many factors that can result to loss of data including natural disaster, human-related occurrence, and computer-related problems.

Conclusion

This study revealed that the old manual system is unsystematic, prone to more errors due to lack of validation and possibility of loss of data. It is also inefficient, slow and requires more work. In comparison with the new automated student management system, it is equipped with a database, can be used offline, has built-in validation, security, automation, and other features that are superior, fast, and efficient than the old one.

Recommendation

The researchers recommend the implementation of the new automated student management system to utilize the benefits of using the new system and to also increase productivity of the teachers, lessen their workload and minimize errors and risk brought by using the old system.

Bibliography

Sykes. (2022, January 29). SURVEY REPORT 2021 TEACHING SURVEY: K–12 Teachers Are (More) Overworked During Pandemic. <https://www.sykes.com/resources/reports/2021-teaching-workload-during-pandemic/>

SMMHS Student Management System User-Interface

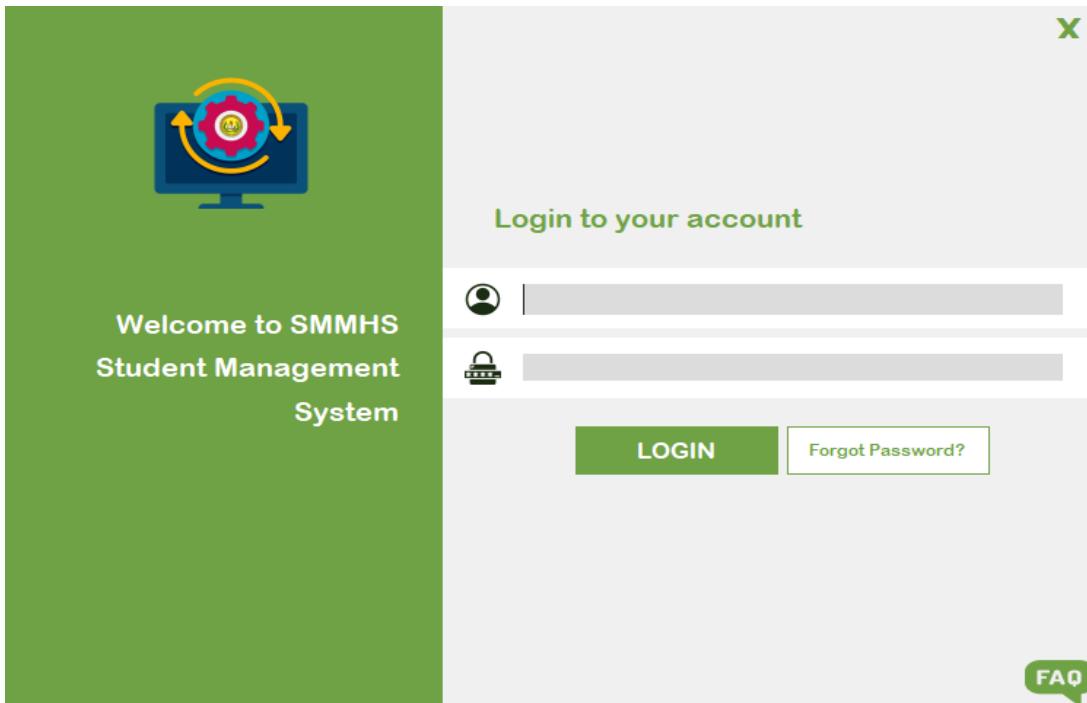


Figure 2. SMMHS – SMS Login Page

The screenshot shows the dashboard of the SMMHS Student Management System. The top navigation bar includes the school's logo, the text "SMMHS - SMS", and standard window control buttons. The dashboard has a dark blue header with the text "San Miguel - Mey sulao High School". On the left, a sidebar lists "Students", "School Forms", "Dashboard", and "Exit". The main content area features a "Dashboard" section with three colored boxes: blue for "TOTAL STUDENTS 5" showing two student icons, red for "Junior High Students 2" showing a student writing icon, and orange for "Senior High Students 3" showing a graduation cap icon. Below this is a large image of the school building, which is a multi-story structure with a green roof and a flag flying from a pole. The image includes the school's name in English and Tagalog: "Mataas na Paaralan ng San Miguel-Mey sulao" and "San Miguel, Calumpit, Bulacan".

Figure 3. SMMHS – SMS Dashboard

| # | LRN | Last Name | First Name | Middle Name | Gender | Grade | Status | Year | Action | Action | Action |
|---|--------------|-------------|------------|-------------|--------|----------|--------|------|----------------------|------------------------|------------------------|
| 1 | 102435789812 | Jaena | Jay | Lopez | Male | 10 | Active | 2022 | View | Update | Delete |
| 2 | 102987654678 | Windsor II | Elizabeth | Mountbatten | Female | 12 - TVL | Active | 2022 | View | Update | Delete |
| 3 | 104844070127 | Bonifacio | Mary Ann | Castro | Female | 12 - GAS | Active | 2022 | View | Update | Delete |
| 4 | 105627893452 | Santos | Jamie | Minerva | Female | 11 - TVL | Active | 2022 | View | Update | Delete |
| 5 | 145672839812 | Villafuerte | Kent | Dela Cruz | Male | 9 | Active | 2022 | View | Update | Delete |

Figure 4. SMMHS – SMS Manage Student Form

Add Student

LRN (Learner's Reference Number)

First Name:

Middle Name:

Last Name:

Name Extn.:

Gender

 Male Female

Date of Birth:

 Tuesday , June 14, 2022

Address:

Student Status:

Grade Level:

Figure 5. SMMHS – SMS Create/Add Student Form

View

LRN (Learner's Reference Number)
102435789812

First Name: Jay

Middle Name: Lopez

Last Name: Jaena

Name Extn.:

Gender
 Male Female

Date of Birth: Saturday , March 15, 2003

Address: Meysulao, Calumpit, Bulacan

Student Status: Active

Grade Level: 10

Close

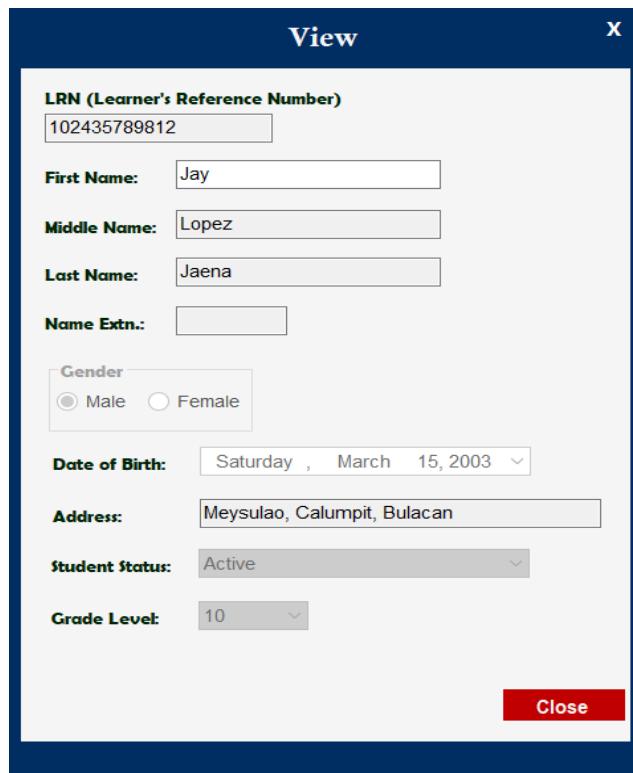


Figure 6. SMMHS – SMS View Student Form

Update

LRN (Learner's Reference Number)
102435789812

First Name: Jay

Middle Name: Lopez

Last Name: Jaena

Name Extn.:

Gender
 Male Female

Date of Birth: Saturday , March 15, 2003

Address: Meysulao, Calumpit, Bulacan

Student Status: Active

Grade Level: 10

Update **Close**

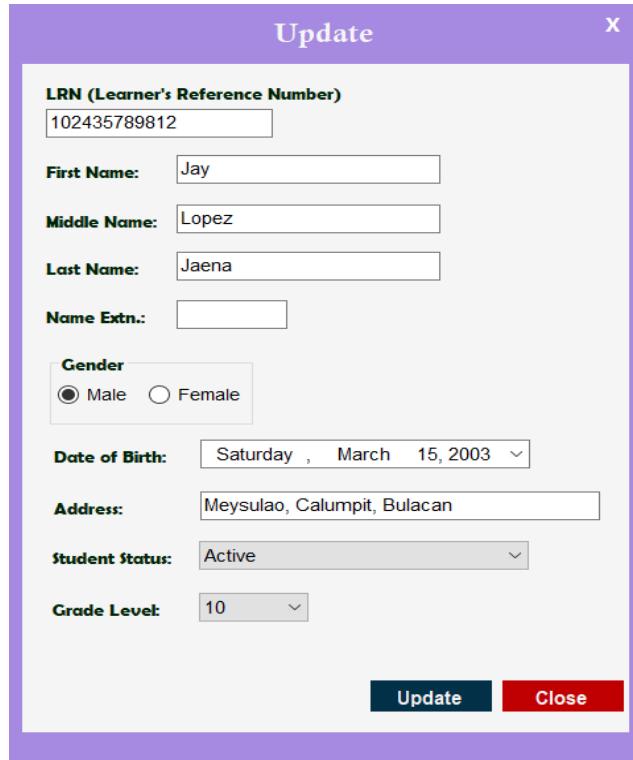


Figure 7. SMMHS – SMS Update Student Form

SMMHS - SMS



SMMHS
Student Management System

- Students
- Manage Students
- Export / Print
- School Forms
- Dashboard
- Exit

Print / Export

| # | LRN | Last Name | First Name | Middle Name | Gender | Grade | Status | Year | BirthDate | Address |
|---|--------------|-------------|------------|-------------|--------|----------|--------|------|------------|-----------------|
| 1 | 102435789812 | Jaena | Jay | Lopez | Male | 10 | Active | 2022 | 03/15/2003 | Meysulao, ... |
| 2 | 102987654678 | Windsor II | Elizabeth | Mountbatten | Female | 12 - TVL | Active | 2022 | 01/22/2002 | San Miguel, ... |
| 3 | 104844070127 | Bonifacio | Mary Ann | Castro | Female | 12 - GAS | Active | 2022 | 01/13/2001 | San Miguel, ... |
| 4 | 105627893452 | Santos | Jamie | Minerva | Female | 11 - TVL | Active | 2022 | 09/24/2001 | San Miguel, ... |
| 5 | 145672839812 | Villafuerte | Kent | Dela Cruz | Male | 9 | Active | 2022 | 06/18/2003 | Sulipan, Ap... |

Figure 8. SMMHS – SMS Print/Export Form

SMMHS - SMS



SMMHS
Student Management System

- Students
- School Forms
- SF10 - JHS
- SF10 - SHS
- Dashboard
- Exit

SF 10 - JHS

| # | LRN | Last Name | First Name | Middle Name | Gender | Grade | Status | Year | Update | View | Export |
|---|--------------|-------------|------------|-------------|--------|-------|--------|------|-------------------------|-----------------------|-------------------------|
| 1 | 102435789812 | Jaena | Jay | Lopez | Male | 10 | Active | 2022 | <button>Update</button> | <button>View</button> | <button>Export</button> |
| 2 | 145672839812 | Villafuerte | Kent | Dela Cruz | Male | 9 | Active | 2022 | <button>Update</button> | <button>View</button> | <button>Export</button> |

Figure 9. SMMHS – SMS SF 10 JHS List Form

Menu

Learner's Permanent Academic Record for Junior High School (SF10-JHS)

| | | | |
|--|-----------------|--|---|
| LEARNER'S INFORMATION | | | |
| LAST NAME: Jaena | FIRST NAME: Jay | NAME EXTN: | MIDDLE NAME: Lopez |
| Learner Reference Number (LRN) : 102435789812 | | Birthdate (mm/dd/yyyy) : 03/15/2003 | Sex: Male |
| ELIGIBILITY FOR JHS ENROLMENT | | | |
| <input checked="" type="checkbox"/> Elementary School Completer Name of Elementary School: Meysulao Elementary School | | General Average: <input type="text" value="99"/> | Citation: (If Any) <input type="text"/> |
| | | School ID: <input type="text" value="104844"/> | Address of School : Meysulao, Calumpit, Bulacan |
| Other Credentials Presented <input type="checkbox"/> PEPT Passer Rating: <input type="text"/> <input type="checkbox"/> ALS A & E Passer Rating: <input type="text"/> <input type="checkbox"/> Others (Pls. Specify): <input type="text"/> | | | |
| Date of Examination/Assessment (mm/dd/yyyy) : <input type="text"/> | | Name and Address of Testing Center: <input type="text"/> | |
| <input type="button" value="Save"/> | | | |

Figure 10. SMMHS – SMS SF 10 JHS p1 Update Form

Grade 7

Learner's Permanent Academic Record for Junior High School (SF10-JHS)

| | | | | | | |
|---|-------------------|-------------------------------------|---------------------------------------|--------------------------------------|---------|-------------------------------------|
| LEARNER'S INFORMATION | | | | | | |
| LAST NAME: Jaena | FIRST NAME: Jay | NAME EXTN: | MIDDLE NAME: Lopez | | | |
| Learner Reference Number (LRN) : 102435789812 | | Birthdate (mm/dd/yyyy) : 03/15/2003 | Sex: Male | | | |
| SCHOLASTIC RECORD | | | | | | |
| School: San Miguel Meysulao High School | School ID: 104844 | District: Calumpit North | Division: Bulacan | | | |
| Region: III | | | | | | |
| Classified as Grade: 7 | Section: A | School Year: 2020 | Name of Adviser/Teacher: Ms. Alvarado | | | |
| LEARNING AREAS | | Quarterly Rating | | FINAL RATING | REMARKS | |
| | | 1 | 2 | | | 3 |
| Filipino | | 98 | 98 | 98 | 98 | PASSED |
| English | | 97 | 97 | 97 | 97 | PASSED |
| Mathematics | | 96 | 96 | 96 | 96 | PASSED |
| Science | | 95 | 95 | 95 | 95 | PASSED |
| Araling Panlipunan (AP) | | 94 | 94 | 94 | 94 | PASSED |
| Edukasyon sa Paggapakatao (EsP) | | 93 | 93 | 93 | 93 | PASSED |
| Technology and Livelihood Education (TLE) | | 92 | 92 | 92 | 92 | PASSED |
| MAPEH | | 89 | 89 | 89 | 89 | PASSED |
| Music | | 91 | 91 | 91 | 91 | PASSED |
| Arts | | 90 | 90 | 90 | 90 | PASSED |
| Physical Education | | 89 | 89 | 89 | 89 | PASSED |
| Health | | 88 | 88 | 88 | 88 | PASSED |
| | | General Average | | 95 | PASSED | |
| | | | | <input type="button" value="Clear"/> | | <input type="button" value="Save"/> |

Figure 11. SMMHS – SMS SF 10 JHS p2 Update Form

| Learner's Permanent Academic Record for Junior High School (SF10-JHS) | | | | | | | |
|---|---|-------------|------------------------------------|--------------|----------------|---------------------------------------|---------|
| LEARNER'S INFORMATION | | | | | | | |
| LAST NAME: | Jaena | FIRST NAME: | Jay | NAME EXTN: | | MIDDLE NAME: | Lopez |
| Learner Reference Number (LRN): 102435789812 | | | Birthdate (mm/dd/yyyy): 03/15/2003 | | | Sex: Male | |
| SCHOLASTIC RECORD | | | | | | | |
| School: | San Miguel Meysulao High School | School ID: | 104844 | District: | Culumpit North | Division: | Bulacan |
| Classified as Grade: | 7 | Section: | A | School Year: | 2020 | Name of Adviser/Teacher: Ms. Alvarado | |
| LEARNING AREAS | Quarterly Rating | | | | FINAL RATING | REMARKS | |
| | 1 | 2 | 3 | 4 | | | |
| | Filipino | 98 | 98 | 98 | 98 | PASSED | |
| | English | 97 | 97 | 97 | 97 | PASSED | |
| | Mathematics | 96 | 96 | 96 | 96 | PASSED | |
| | Science | 95 | 95 | 95 | 95 | PASSED | |
| | Araling Panlipunan (AP) | 94 | 94 | 94 | 94 | PASSED | |
| | Edukasyon sa Pagpapakatao (EsP) | 93 | 93 | 93 | 93 | PASSED | |
| | Technology and Livelihood Education (TLE) | 92 | 92 | 92 | 92 | PASSED | |
| | MAPEH | 89 | 89 | 89 | 89 | PASSED | |
| | Music | 91 | 91 | 91 | 91 | PASSED | |
| Arts | 90 | 90 | 90 | 90 | PASSED | | |
| Physical Education | 89 | 89 | 89 | 89 | PASSED | | |
| Health | 88 | 88 | 88 | 88 | PASSED | | |
| | <i>General Average</i> | | | | 95 | PASSED | |

Figure 12. SMMHS – SMS SF 10 JHS p2 View Form

| SF 10 - SHS | | | | | | | | | |
|-------------|--------------|---|------------|-------------|--------|----------|--------|------|--|
| Refresh | | Sort by : <input type="text"/> <input type="text"/> <input type="button" value=""/> | | | | | | | |
| # | LRN | Last Name | First Name | Middle Name | Gender | Grade | Status | Year | |
| 1 | 102987654678 | Windsor II | Elizabeth | Mountbatten | Female | 12 - TVL | Active | 2022 | Update View Export |
| 2 | 104844070127 | Bonifacio | Mary Ann | Castro | Female | 12 - GAS | Active | 2022 | Update View Export |
| 3 | 105627893452 | Santos | Jamie | Minerva | Female | 11 - TVL | Active | 2022 | Update View Export |

Figure 13. SMMHS – SMS SF 10 SHS List Form

| SENIOR HIGH SCHOOL STUDENT PERMANENT RECORD | | | | | | |
|--|---|--|-------------------|----------|--------------------|--------------|
| Grade 12 - 1st Sem <input type="button" value="X"/> | | | | | | |
| LEARNER'S INFORMATION | | | | | | |
| LAST NAME : Windsor II | FIRST NAME : Elizabeth | MIDDLE NAME : Mountbatten | | | | |
| Learner Reference Number (LRN) : 102987654678 | Date of Birth (mm/dd/yyyy) : 01/22/2002 | Sex : Female | | | | |
| SCHOLASTIC RECORD | | | | | | |
| SCHOOL: San Miguel - Meysulao High School | SCHOOL ID: 306723 | GRADE LEVEL: 12 | SY: 2020 | SEM: 1ST | | |
| TRACK/STRAND: Technical Vocational Livelihood/Home Economics | | | SECTION: Reverent | | | |
| Indicate if Subject is CORE, APPLIED, or SPECIALIZED | SUBJECTS | | Quarter | | SEM FINAL GRADE | ACTION TAKEN |
| | | | 1ST | 2ND | | |
| | Core | 21st Century Literature from the Philippines and the World | 90 | 90 | 90 | PASSED |
| | Core | Introduction to the Philosophy of the Human Person/Pambungad ... | 91 | 91 | 91 | PASSED |
| | Core | Understanding Culture, Society and Politics | 92 | 92 | 92 | PASSED |
| | Core | Contemporary Philippine Arts from the Regions | 93 | 93 | 93 | PASSED |
| | Core | Physical Education and Health | 94 | 93 | 94 | PASSED |
| | Applied | Entrepreneurship | 95 | 95 | 95 | PASSED |
| | Applied | Practical Research 2 | 95 | 96 | 96 | PASSED |
| Specialized | Cookery NC2 | 95 | 96 | 96 | PASSED | |
| | | | | 93 | PASSED | |
| <input type="button" value="Clear"/> <input type="button" value="Update"/> | | | | | | |

Figure 14. SMMHS – SMS SF 10 SHS Update Form

| SENIOR HIGH SCHOOL STUDENT PERMANENT RECORD | | | | | | |
|--|---|--|-------------------|----------|--------------------|--------------|
| Grade 12 - 1st Sem <input type="button" value="X"/> | | | | | | |
| LEARNER'S INFORMATION | | | | | | |
| LAST NAME : Windsor II | FIRST NAME : Elizabeth | MIDDLE NAME : Mountbatten | | | | |
| Learner Reference Number (LRN) : 102987654678 | Date of Birth (mm/dd/yyyy) : 01/22/2002 | Sex : Female | | | | |
| SCHOLASTIC RECORD | | | | | | |
| SCHOOL: San Miguel - Meysulao High School | SCHOOL ID: 306723 | GRADE LEVEL: 12 | SY: 2020 | SEM: 1ST | | |
| TRACK/STRAND: Technical Vocational Livelihood/Home Economics | | | SECTION: Reverent | | | |
| Indicate if Subject is CORE, APPLIED, or SPECIALIZED | SUBJECTS | | Quarter | | SEM FINAL GRADE | ACTION TAKEN |
| | | | 1ST | 2ND | | |
| | Core | 21st Century Literature from the Philippines and the World | 90 | 90 | 90 | PASSED |
| | Core | Introduction to the Philosophy of the Human Person/Pambungad ... | 91 | 91 | 91 | PASSED |
| | Core | Understanding Culture, Society and Politics | 92 | 92 | 92 | PASSED |
| | Core | Contemporary Philippine Arts from the Regions | 93 | 93 | 93 | PASSED |
| | Core | Physical Education and Health | 94 | 93 | 94 | PASSED |
| | Applied | Entrepreneurship | 95 | 95 | 95 | PASSED |
| | Applied | Practical Research 2 | 95 | 96 | 96 | PASSED |
| Specialized | Cookery NC2 | 95 | 96 | 96 | PASSED | |
| | | | | 93 | PASSED | |

Figure 15. SMMHS – SMS SF 10 SHS View Form

SMMHS Student Management System Code-Behind

```

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

namespace SMMHS_SMS
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
            customizeDesign();
            studenttotalDSB();
            jhstotalDSB();
            shstotalDSB();
        }

        private void customizeDesign()
        {
            panel_stdsubmenu.Visible = false;
            panel_schformsub.Visible = false;
        }

        private void hideSubmenu()
        {
            if (panel_Lstdsubmenu.Visible == true)
                _ = panel_Lstdsubmenu.Visible = false;
            if (panel_schformsub.Visible == true)
                _ = panel_schformsub.Visible = false;
        }

        private void show_submenu(Panel submenu)
        {
            if (submenu.Visible == false)
            {
                hideSubmenu();
                submenu.Visible = true;
            }
            else
            {
                submenu.Visible = false;
            }
        }

        private void button_student_Click(object sender, EventArgs e)
        {
            show_submenu(panel_stdsubmenu);
        }

        #region stdsubmenu
        //Event handler for buttons
        #region button
        private void button_mngStd_Click(object sender, EventArgs e)
        {
            openchildForm(new ManageStd());
            hideSubmenu();
        }

        private void button_prnt_Click(object sender, EventArgs e)
        {
            openchildForm(new PrintExport());
            hideSubmenu();
        }

        #endregion stdsubmenu

        private void button_schforms_Click(object sender, EventArgs e)
        {
            show_submenu(panel_schformsub);
        }

        #region schformsub

        private void button_sf10JHS_Click(object sender, EventArgs e)
        {
            openchildForm(new SF10JHS());
            hideSubmenu();
        }

        private void button_sf10HS_Click(object sender, EventArgs e)
        {
            openchildForm(new SF10HS());
            hideSubmenu();
        }

        #endregion schformsub

        private void button_dashboard_Click(object sender, EventArgs e)
        {
            studenttotalDSB();
            jhstotalDSB();
            shstotalDSB();
            this.panel_cover.BringToFront();
            this.panel_cover.Show();
        }

        #endregion

        //Showing Registration Form in Main Form
        private Form activeForm = null;
        private void openchildForm(Form childForm)
        {
            if (activeForm != null)
                activeForm.Close();
            activeForm = childForm;
            childForm.TopLevel = false;
            childForm.FormBorderStyle = FormBorderStyle.None;
            childForm.Dock = DockStyle.Fill;
            panel1.Controls.Add(childForm);
            panel1.Tag = childForm;
            childForm.BringToFront();
        }
    }
}

```

Figures 16 – 19. Code-Behind of Form1.cs

```

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;
using System.Data.OleDb;
using System.Text.RegularExpressions;
namespace GMNNS__SMS
{
    public partial class AddEditStd : Form
    {
        public partial class AddEditStd : Form
        {
            public bool updateClicked, saveClicked;
            public string gender;
            public string[] gradeLvl;
            ManageStd x = new ManageStd();
            OleDbConnection con;
            OleDbCommand cmd;
            DBConn db = new DBConn();
            public AddEditStd(ManageStd manageStd)
            {
                InitializeComponent();
                if (lrn_txtbox != null)
                {
                    AddStudentsLabel();
                }
                else
                {
                    UpdateStudentsLabel();
                }
                con = new OleDbConnection(db.getConn());
            }
        }
        protected void save_Click(object sender, EventArgs e)
        {
            if (strand_cmbx.Visible == true)
            {
                levelGrade = grdvl1_cmbx.Text + " - " + strand_cmbx.Text;
            }
            else if (strand_cmbx.Visible == false)
            {
                levelGrade = grdvl1_cmbx.Text;
            }
            saveClicked = true;
            if (ValidateChildren(ValidationConstraints.Enabled))
            {
                cmd = new OleDbCommand("INSERT INTO Students ([LRN], [LastName], [FirstName], [MiddleName], [BirthDate], [Gender], [Address], [GradeLevel], [Status], [Year], [NameEx]) VALUES (@LRN", lrn_txtbox.Text);
                cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
                cmd.Parameters.AddWithValue("@LastName", lname_txtbox.Text);
                cmd.Parameters.AddWithValue("@FirstName", fname_txtbox.Text);
                cmd.Parameters.AddWithValue("@MiddleName", mname_txtbox.Text);
                cmd.Parameters.AddWithValue("@Birthdate", bdate_picker.Value.ToString("MM/dd/yyyy"));
                cmd.Parameters.AddWithValue("@Gender", gender);
                cmd.Parameters.AddWithValue("@Address", address_textbox.Text);
                cmd.Parameters.AddWithValue("@GradeLevel", levelGrade);
                cmd.Parameters.AddWithValue("@Status", stdstatus_cmbx.Text);
                cmd.Parameters.AddWithValue("@Year", year_txtbox.Text);
                cmd.Parameters.AddWithValue("@NameEx", nameEx_textbox.Text);
                cmd.ExecuteNonQuery();
                con.Close();
            }
            cmd = new OleDbCommand("UPDATE Students SET [LRN] = @LRN, [LastName] = @lastName, [FirstName] = @firstName, [MiddleName] = @middleName, [BirthDate] = @birthDate, [Gender] = @gender, [Address] = @address, [GradeLevel] = @gradeLevel, [Status] = @status, [Year] = @year, [NameEx] = @nameEx WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.Parameters.AddWithValue("@lastName", lname_txtbox.Text);
            cmd.Parameters.AddWithValue("@firstName", fname_txtbox.Text);
            cmd.Parameters.AddWithValue("@middleName", mname_txtbox.Text);
            cmd.Parameters.AddWithValue("@birthDate", bdate_picker.Value.ToString("MM/dd/yyyy"));
            cmd.Parameters.AddWithValue("@gender", gender);
            cmd.Parameters.AddWithValue("@address", address_textbox.Text);
            cmd.Parameters.AddWithValue("@gradeLevel", levelGrade);
            cmd.Parameters.AddWithValue("@status", stdstatus_cmbx.Text);
            cmd.Parameters.AddWithValue("@year", year_txtbox.Text);
            cmd.Parameters.AddWithValue("@nameEx", nameEx_textbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade11 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade12 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade1 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade8 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade9 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade10 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade1 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade8 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade9 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            cmd = new OleDbCommand("UPDATE Grade10 SET [LRN] = @LRN WHERE [LRN] = @LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_txtbox.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            MessageBox.Show("Student has been Successfully Updated!", "MESSAGE", MessageBoxButtons.OK, MessageBoxIcon.Information);
        }
        protected void cancel_Click(object sender, EventArgs e)
        {
            Clear();
        }
        protected void close_Click(object sender, EventArgs e)
        {
            this.Close();
        }
        protected void exit_Click(object sender, EventArgs e)
        {
            this.Close();
        }
    }
}

```

```

//region methods
public void clear()
{
    lrn_txtbox.Clear();
    lname_txtbox.Clear();
    fname_txtbox.Clear();
    mname_txtbox.Clear();
    year_txtbox.Clear();
    female_rd.Checked = false;
    address_txtbox.Clear();
    grdlv1_cmbo.Text = "";
    stdstatus_cmbo.Text = "";
    strand_cmbo.Visible = false;
    strand_label.Visible = false;
    strand_cmbo.ResetText();
    stdstatus_cmbo.SelectedIndex = -1;
    year_txtbox.Visible = false;
    year_label.Visible = false;
    bdate_picker.Value = DateTime.Today;
    strand_label.Visible = false;
    strand_cmbo.Visible = false;
    stdstatus_cmbo.ResetText();
    grdlv1_cmbo.SelectedIndex = -1;
    nameEx_txtbox.Clear();
}

public void disablingControls()
{
    lrn_txtbox.ReadOnly = true;
    fname_txtbox.ReadOnly = true;
    mname_txtbox.ReadOnly = true;
    lname_txtbox.ReadOnly = true;
    bdate_picker.Enabled = false;
    address_txtbox.ReadOnly = true;
    gender_rd.Enabled = false;
    stdstatus_cmbo.Enabled = false;
    grdlv1_cmbo.Enabled = false;
    strand_cmbo.Enabled = false;
    year_txtbox.ReadOnly = true;
    nameEx_txtbox.ReadOnly = true;
}

public void AddStudentsLabel()
{
    title_label.Text = "Add Student";
    this.Text = "Add Student's Details";
    year_label.Visible = false;
    year_txtbox.Visible = false;
    strand_label.Visible = false;
    strand_cmbo.Visible = false;
    close_btn.Visible = false;
    update btn.Visible = false;
}

public void UpdateStudentslabel()
{
    title_label.Text = "Update Student";
    this.Text = "Update Student's Details";
    year_label.Visible = false;
    year_txtbox.Visible = false;
    strand_label.Visible = false;
    strand_cmbo.Visible = false;
    close_btn.Visible = false;
}

private void yeardeterminer()
{
    year_label.Font = new Font("Arial", 9);
    if (stdstatus_cmbo.SelectedIndex == 3)
    {
        year_label.Text = "Year Graduated";
        year_label.Visible = true;
        year_txtbox.Visible = true;
        grdlv1_cmbo.Text = "1st";
        grdlv1_cmbo.Enabled = false;
        strand_label.Visible = true;
        strand_cmbo.Visible = true;
        year_txtbox.Text = "";
        update btn.Visible = false;
    }
    else if (stdstatus_cmbo.SelectedIndex == 1)
    {
        year_label.Font = new Font("Arial", 7);
        year_label.Text = "Year Dropped out";
        year_label.Visible = true;
        year_txtbox.Visible = true;
        grdlv1_cmbo.Text = "2nd";
        grdlv1_cmbo.Enabled = true;
        grdlv1_cmbo.ResetText();
        grdlv1_cmbo.SelectedIndex = -1;
    }
    else if (stdstatus_cmbo.SelectedIndex == 2)
    {
        year_label.Text = "Moving Up Year";
        year_label.Visible = true;
        year_txtbox.Visible = true;
        grdlv1_cmbo.Enabled = false;
        grdlv1_cmbo.Text = "10";
        strand_label.Visible = false;
        strand_cmbo.Visible = false;
        year_txtbox.Text = "";
    }
    else if (stdstatus_cmbo.SelectedIndex == 6)
    {
        grdlv1_cmbo.Enabled = true;
        stdstatus_cmbo.Enabled = true;
        year_label.Visible = false;
        year_txtbox.Visible = false;
        strand_label.Visible = false;
        strand_cmbo.Visible = false;
        grdlv1_cmbo.Text = DateTime.Now.Year.ToString();
        grdlv1_cmbo.ResetText();
        grdlv1_cmbo.SelectedIndex = -1;
    }
}

private void SHScmbx()
{
    if (grdlv1_cmbo.SelectedIndex == 4)
    {
        strand_label.Visible = true;
        strand_cmbo.Visible = true;
    }
}

else if (grdlv1_cmbo.SelectedIndex == 5)
{
    strand_label.Visible = true;
    strand_cmbo.Visible = true;
}
else if (grdlv1_cmbo.SelectedIndex == 0 || grdlv1_cmbo.SelectedIndex == 3)
{
    strand_label.Visible = false;
    strand_cmbo.Visible = false;
}
}

//endregion

//region textboxes appearance logic
private void stdstatus_cmbo_SelectedIndexChanged(object sender, EventArgs e)
{
    yeardeterminer();
}

private void grdlv1_cmbo_SelectedIndexChanged(object sender, EventArgs e)
{
    SHScmbx();
}

//Gender Parameters
private void male_rd_CheckedChanged(object sender, EventArgs e)
{
    gender = male_rd.Text;
}

private void female_rd_CheckedChanged(object sender, EventArgs e)
{
    gender = female_rd.Text;
}

//region validation
private void lrn_txtbox_Validating(object sender, CancelEventArgs e)
{
    if (lrn_txtbox.Text == "")
    {
        e.Cancel = true;
        lrn_txtbox.Focus();
        errorProvider1.SetError(lrn_txtbox, "This field is Required!");
    }
    else if (!Regex.IsMatch(lrn_txtbox.Text, @"^([A-Z][a-z]*)(\'.+\')?;(<>/?)$"))
    {
        e.Cancel = true;
        lrn_txtbox.Focus();
        errorProvider1.SetError(lrn_txtbox, "Invalid Format!");
    }
    else if ((lrn_txtbox.Text.Length<12 || lrn_txtbox.Text.Length > 12)
    && lrn_txtbox.Text.Length != 12)
    {
        e.Cancel = true;
        lrn_txtbox.Focus();
        errorProvider1.SetError(lrn_txtbox, "This field must contains 12 digit numbers!");
    }
}

private void fname_txtbox_Validating(object sender, CancelEventArgs e)
{
    if (fname_txtbox.Text == "")
    {
        e.Cancel = true;
        fname_txtbox.Focus();
        errorProvider1.SetError(fname_txtbox, null);
    }
}

private void lname_txtbox_Validating(object sender, CancelEventArgs e)
{
    if (lname_txtbox.Text == "")
    {
        e.Cancel = true;
        lname_txtbox.Focus();
        errorProvider1.SetError(lname_txtbox, "This field is Required!");
    }
    else if (!Regex.IsMatch(fname_txtbox.Text, "^[0-9]*$"))
    {
        e.Cancel = true;
        fname_txtbox.Focus();
        errorProvider1.SetError(fname_txtbox, "Invalid Format!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(fname_txtbox, null);
    }
}

private void mname_txtbox_Validating(object sender, CancelEventArgs e)
{
    if ((Regex.IsMatch(mname_txtbox.Text, "[0-9]*") ||
    Regex.IsMatch(mname_txtbox.Text, @"^([-!@#$%^&*()-.+=|\{\};.,<>/?])$"))
    {
        e.Cancel = true;
        mname_txtbox.Focus();
        errorProvider1.SetError(mname_txtbox, "Invalid Format!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(mname_txtbox, null);
    }
}

private void strand_cmbo_Validating(object sender, CancelEventArgs e)
{
    if (strand_cmbo.Text == "")
    {
        e.Cancel = true;
        strand_cmbo.Focus();
        errorProvider1.SetError(strand_cmbo, "This field is Required!");
    }
    else if (!Regex.IsMatch(strand_cmbo.Text, "^[0-9]*$"))
    {
        e.Cancel = true;
        strand_cmbo.Focus();
        errorProvider1.SetError(strand_cmbo, "Invalid Format!");
    }
    else
    {

```

```

        e.Cancel = false;
        errorProvider1.SetError(lname_txtbox, null);
    }

private void nameEx_tetbox_Validateing(object sender, CancelEventArgs e)
{
    if (nameEx_tetbox.Text.Length > 8)
    {
        e.Cancel = true;
        nameEx_tetbox.Focus();
        errorProvider1.SetError(nameEx_tetbox, "Too long!");
    }
    else if (Regex.IsMatch(lname_txtbox.Text, "[0-9]"))
    {
        e.Cancel = true;
        nameEx_tetbox.Focus();
        errorProvider1.SetError(nameEx_tetbox, "Invalid Format!");
    }
}

private void gender_grpbx_Validateing(object sender, CancelEventArgs e)
{
    if (!gender_grpbx.ControlsOfType<RadioButton>().Any(r =>
r.Checked))
    {
        e.Cancel = true;
        gender_grpbx.Focus();
        errorProvider1.SetError(gender_grpbx, "This field is
Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(gender_grpbx, null);
    }
}

private void bdate_picker_Validateing(object sender, CancelEventArgs e)
{
    if (bdate_picker.Value.Year == 2022 || bdate_picker.Value.Year >
2011)
    {
        e.Cancel = true;
        gender_grpbx.Focus();
        errorProvider1.SetError(bdate_picker, "The student must be at
least 11 years old above!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(bdate_picker, null);
    }
}

private void address_textbox_Validateing(object sender, CancelEventArgs e)
{
    if (address_textbox.Text == "")
    {
        e.Cancel = true;
        address_textbox.Focus();
        errorProvider1.SetError(address_textbox, "This field is
Required!");
    }
    else if ((Regex.IsMatch(year_txtbox.Text, @"(A-Za-z)")) ||
Regex.IsMatch(ln_txtbox.Text, @"([!@#$%^&()~+=|\{\};,:<>?])"))
    {
        e.Cancel = true;
        year_txtbox.Focus();
        errorProvider1.SetError(year_txtbox, "Invalid Format!");
    }
    else if (year_txtbox.Text.Length < 4 || year_txtbox.Text.Length
> 4 || Convert.ToInt32(year_txtbox.Text) > 2100)
    {
        e.Cancel = true;
        year_txtbox.Focus();
        errorProvider1.SetError(year_txtbox, "Invalid Year
Format!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(year_txtbox, null);
    }
}
#endregion
}
}

```

Figures 20-30. Code-Behind of

AddEditStd.cs

```

Required!" );
}
else
{
    e.Cancel = false;
    errorProvider1.SetError(address_textbox, null);
}

private void stdstatus_cmbx_Validating(object sender, CancelEventArgs e)
{
    if (stdstatus_cmbx.SelectedIndex == -1)
    {
        e.Cancel = true;
        errorProvider1.SetError(stdstatus_cmbx, "This field is
Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(stdstatus_cmbx, null);
    }
}

private void grdlvl_cmbx_Validating(object sender, CancelEventArgs e)
{
    if (grdlvl_cmbx.SelectedIndex == -1)
    {
        e.Cancel = true;
        grdlvl_cmbx.Focus();
        errorProvider1.SetError(grdlvl_cmbx, "This field is Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(grdlvl_cmbx, null);
    }
}

private void strand_cmbx_Validating(object sender, CancelEventArgs e)
{
    if (strand_cmbx.Visible == true)
    {
        if (strand_cmbx.SelectedIndex == -1)
        {
            e.Cancel = true;
            strand_cmbx.Focus();
            errorProvider1.SetError(strand_cmbx, "This field is
Required!");
        }
        else
        {
            e.Cancel = false;
            errorProvider1.SetError(strand_cmbx, null);
        }
    }
}

private void year_txtbox_Validating(object sender, CancelEventArgs e)
{
    if (year_txtbox.Visible == true)
    {
        if (year_txtbox.Text == "")
        {

```

```

using Microsoft.Office.Interop.Excel;
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.OleDb;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Threading.Tasks;
using System.Runtime.InteropServices;
using System.Text.RegularExpressions;
using System.Text;
using System.Text.RegularExpressions;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace SMHSS___SMS
{
    public partial class Grades : Form
    {
        OleDbConnection con;
        OleDbCommand cmd;
        OleDbDataReader dr;
        OleDbCommand dbConn();
        public string grade;
        public Grades()
        {
            InitializeComponent();
            con = new OleDbConnection(db.getConn());
        }

        private void exit btn_Click(object sender, EventArgs e)
        {
            this.Close();
        }

        //Putting grades and other infos on datagrid
        private void menu_comboBox_SelectionChangeCommitted(object sender,
        EventArgs e)
        {
            if (menu_comboBox.SelectedIndex == 0)
            {
                recordsDT.Rows.Clear();
                con.Open();
                cmd = new OleDbCommand("SELECT * FROM Grade7 WHERE LRN = @LRN",
                con);
                cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
                dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    fillscholasticandInfos();
                    grade_textbox.Text = "?";
                    selectingGradeQuery();
                }
                dr.Close();
                con.Close();
            }
            else if (menu_comboBox.SelectedIndex == 1)
            {
                recordsDT.Rows.Clear();
                con.Open();
                cmd = new OleDbCommand("SELECT * FROM Grade8 WHERE LRN = @LRN",
                con);
                cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
                dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    fillscholasticandInfos();
                    grade_textbox.Text = "8";
                    selectingGradeQuery();
                }
                dr.Close();
                con.Close();
            }
            else if (menu_comboBox.SelectedIndex == 2)
            {
                recordsDT.Rows.Clear();
                con.Open();
                cmd = new OleDbCommand("SELECT * FROM Grade9 WHERE LRN = @LRN",
                con);
                cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
                dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    fillscholasticandInfos();
                    grade_textbox.Text = "9";
                    selectingGradeQuery();
                }
                dr.Close();
                con.Close();
            }
            else if (menu_comboBox.SelectedIndex == 3)
            {
                recordsDT.Rows.Clear();
                con.Open();
                cmd = new OleDbCommand("SELECT * FROM Grade10 WHERE LRN = @LRN",
                con);
                cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
                dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    fillscholasticandInfos();
                    grade_textbox.Text = "10";
                    selectingGradeQuery();
                }
                dr.Close();
                con.Close();
            }
        }

        //Methods for Appearances
        #region appearance of controls
        public void enableBorderStyleTxtboxGrades()
        {
            school_textbox.BorderStyle = BorderStyle.FixedSingle;
            schhid_textbox.BorderStyle = BorderStyle.FixedSingle;
            district_textbox.BorderStyle = BorderStyle.FixedSingle;
            division_textbox.BorderStyle = BorderStyle.FixedSingle;
            region_textbox.BorderStyle = BorderStyle.FixedSingle;
            section_textbox.BorderStyle = BorderStyle.FixedSingle;
        }
        #endregion
    }
}

schyear_textbox.BorderStyle = BorderStyle.FixedSingle;
adviser_textbox.BorderStyle = BorderStyle.FixedSingle;
}
}

public void disableBorderStyleTxtboxGrades()
{
    school_textbox.BorderStyle = BorderStyle.None;
    schhid_textbox.BorderStyle = BorderStyle.None;
    district_textbox.BorderStyle = BorderStyle.None;
    division_textbox.BorderStyle = BorderStyle.None;
    region_textbox.BorderStyle = BorderStyle.None;
    section_textbox.BorderStyle = BorderStyle.None;
    schyear_textbox.BorderStyle = BorderStyle.None;
    adviser_textbox.BorderStyle = BorderStyle.None;
}

public void ReadOnlyControlsGrades()
{
    school_textbox.ReadOnly = true;
    schhid_textbox.ReadOnly = true;
    district_textbox.ReadOnly = true;
    division_textbox.ReadOnly = true;
    region_textbox.ReadOnly = true;
    section_textbox.ReadOnly = true;
    schyear_textbox.ReadOnly = true;
    adviser_textbox.ReadOnly = true;
    lrn_textbox.ReadOnly = true;
    recordsDT.ReadOnly = true;
}

public void EnableControlsGrades()
{
    recordsDT.ReadOnly = false;
    school_textbox.ReadOnly = false;
    schhid_textbox.ReadOnly = false;
    district_textbox.ReadOnly = false;
    division_textbox.ReadOnly = false;
    region_textbox.ReadOnly = false;
    section_textbox.ReadOnly = false;
    schyear_textbox.ReadOnly = false;
    adviser_textbox.ReadOnly = false;
    lrn_textbox.ReadOnly = true;
}

private void fillScholasticandInfos()
{
    lrn_textbox.Text = this.lrn_textbox.Text;
    lname_textbox.Text = this.lname_textbox.Text;
    fname_textbox.Text = this.fname_textbox.Text;
    nameEx_textbox.Text = this.nameEx_textbox.Text;
    mmname_textbox.Text = this.mmname_textbox.Text;
    bdate_textbox.Text = this.bdate_textbox.Text;
    sex_textbox.Text = this.sex_textbox.Text;
    school_textbox.Text = dr["School1"].ToString();
    schhid_textbox.Text = dr["SchoolID1"].ToString();
    district_textbox.Text = dr["District1"].ToString();
    division_textbox.Text = dr["Division1"].ToString();
    region_textbox.Text = dr["Region1"].ToString();
    section_textbox.Text = dr["Section1"].ToString();
    schyear_textbox.Text = dr["SchoolYear1"].ToString();
    adviser_textbox.Text = dr["AdviserName1"].ToString();

    recordsDT.Rows.Add("Filipino", dr["FilipinoQ1"].ToString(),
    dr["FilipinoQ2"].ToString(), dr["FilipinoQ3"].ToString(),
    dr["FilipinoQ4"].ToString(), dr["FilipinoRating"].ToString(),
    dr["FilipinoRemarks"].ToString());
    recordsDT.Rows.Add("English", dr["EnglishQ1"].ToString(),
    dr["EnglishQ2"].ToString(), dr["EnglishQ3"].ToString(),
    dr["EnglishQ4"].ToString(), dr["EnglishRating"].ToString(),
    dr["EnglishRemarks"].ToString());
    recordsDT.Rows.Add("Mathematics", dr["MathematicsQ1"].ToString(),
    dr["MathematicsQ2"].ToString(), dr["MathematicsQ3"].ToString(),
    dr["MathematicsQ4"].ToString(), dr["MathematicsRating"].ToString(),
    dr["MathematicsRemarks"].ToString());
    recordsDT.Rows.Add("Science", dr["ScienceQ1"].ToString(),
    dr["ScienceQ2"].ToString(), dr["ScienceQ3"].ToString(),
    dr["ScienceQ4"].ToString(), dr["ScienceRating"].ToString(),
    dr["ScienceRemarks"].ToString());
    recordsDT.Rows.Add("Araling Panlipunan (AP)", dr["APQ1"].ToString(), dr["APQ2"].ToString(), dr["APQ3"].ToString(),
    dr["APQ4"].ToString(), dr["APRating"].ToString(), dr["APRemarks"].ToString());
    recordsDT.Rows.Add("Technology and Livelihood Education (TLE)", dr["TLEQ1"].ToString(), dr["TLEQ2"].ToString(), dr["TLEQ3"].ToString(),
    dr["TLEQ4"].ToString(), dr["TLERating"].ToString(), dr["TLERemarks"].ToString());
    recordsDT.Rows.Add("MAPEH", dr["MAPEHQ1"].ToString(),
    dr["MAPEHQ2"].ToString(), dr["MAPEHRemarks1"].ToString(),
    dr["MAPEHRemarks2"].ToString(), dr["MAPEHRemarks3"].ToString());
    recordsDT.Rows.Add("Music", dr["MusicQ1"].ToString(),
    dr["MusicQ2"].ToString(), dr["MusicQ3"].ToString(), dr["MusicQ4"].ToString(),
    dr["MusicRating"].ToString(), dr["MusicRemarks"].ToString());
    recordsDT.Rows.Add("Arts", dr["ArtsQ1"].ToString(), dr["ArtsQ2"].ToString(),
    dr["ArtsQ3"].ToString(), dr["ArtsQ4"].ToString(), dr["ArtsRating"].ToString(),
    dr["ArtsRemarks"].ToString());
    recordsDT.Rows.Add("Physical Education", dr["PEQ1"].ToString(),
    dr["PEQ2"].ToString(), dr["PEQ3"].ToString(), dr["PEQ4"].ToString(),
    dr["PERating"].ToString(), dr["PERemarks"].ToString());
    recordsDT.Rows.Add("Health", dr["HealthQ1"].ToString(), dr["HealthQ2"].ToString(),
    dr["HealthQ3"].ToString(), dr["HealthQ4"].ToString(), dr["HealthRating"].ToString(),
    dr["HealthRemarks"].ToString());
}

private void longQueryUpdateDB(string x)
{
    cmd = new OleDbCommand("UPDATE @ SET [LRN] = @LRN, [School] = @School, [SchoolID] = @SchoolID, [District] = @District, [Division] = @Division, [Region] = @Region, [Section] = @Section, [SchoolYear] = @SchoolYear, [AdviserName] = @AdviserName, [FilipinoQ1] = @FilipinoQ1, [FilipinoQ2] = @FilipinoQ2, [FilipinoQ3] = @FilipinoQ3, [FilipinoQ4] = @FilipinoQ4, [FilipinoRating] = @FilipinoRating, [FilipinoRemarks] = @FilipinoRemarks, [EnglishQ1] = @EnglishQ1, [EnglishQ2] = @EnglishQ2, [EnglishQ3] = @EnglishQ3, [EnglishQ4] = @EnglishQ4, [EnglishRating] = @EnglishRating, [EnglishRemarks] = @EnglishRemarks");
}

```



```

        {
            e.Cancel = true;
            school_textbox.Focus();
            errorProvider1.SetError(school_textbox, "This field is
Required!");
        }
        else
        {
            e.Cancel = false;
            errorProvider1.SetError(school_textbox, null);
        }
    }

    private void schhid_textbox_Validating(object sender, CancelEventArgs e)
    {
        if (schhid_textbox.Text == "")
        {
            e.Cancel = true;
            schhid_textbox.Focus();
            errorProvider1.SetError(schhid_textbox, "This field is
Required!");
        }
        else if (schhid_textbox.Text.Length < 6 &&
schhid_textbox.Text.Length >= 6)
        {
            e.Cancel = true;
            schhid_textbox.Focus();
            errorProvider1.SetError(schhid_textbox, "This field only accepts
6 digit number.");
        }
        else if (Regex.IsMatch(schhid_textbox.Text, @"^[-\d\$\%&()=-]+\d
{0,1},\d{2}/\d{2}$") || (Regex.IsMatch(schhid_textbox.Text, @"\d{A - Za - Z}")))
        {
            e.Cancel = true;
            schhid_textbox.Focus();
            errorProvider1.SetError(schhid_textbox, "This field only accepts
numbers.");
        }
        else
        {
            e.Cancel = false;
            errorProvider1.SetError(schhid_textbox, null);
        }
    }

    private void district_textbox_Validating(object sender, CancelEventArgs
e)
    {
        if (district_textbox.Text == "")
        {
            e.Cancel = true;
            district_textbox.Focus();
            errorProvider1.SetError(district_textbox, "This field is
Required!");
        }
        else
        {
            e.Cancel = false;
            errorProvider1.SetError(district_textbox, null);
        }
    }

    private void division_textbox_Validating(object sender, CancelEventArgs
e)
    {
        if (division_textbox.Text == "")
        {
            e.Cancel = true;
            division_textbox.Focus();
            errorProvider1.SetError(division_textbox, "This field is
Required!");
        }
        else
        {
            e.Cancel = false;
            errorProvider1.SetError(division_textbox, null);
        }
    }

    private void schyear_textbox_Validating(object sender, CancelEventArgs
e)
    {
        if (schyear_textbox.Text == "")
        {
            e.Cancel = true;
            schyear_textbox.Focus();
            errorProvider1.SetError(schyear_textbox, "This field is
Required!");
        }
        else if (Regex.IsMatch(schyear_textbox.Text, @"\d{A - Za - Z}"))
        {
            e.Cancel = true;
            schyear_textbox.Focus();
            errorProvider1.SetError(schyear_textbox, "Invalid Format!");
        }
        else
        {
            e.Cancel = false;
            errorProvider1.SetError(schyear_textbox, null);
        }
    }

    private void adviser_textbox_Validating(object sender, CancelEventArgs
e)
    {
        if (adviser_textbox.Text == "")
        {
            e.Cancel = true;
            adviser_textbox.Focus();
            errorProvider1.SetError(adviser_textbox, "This field is
Required!");
        }
    }

    private void generalAve_textbox_Validating(object sender, CancelEventArgs
e)
    {
        if (generalAve_textbox.Text == "")
        {
            e.Cancel = false;
            errorProvider1.SetError(generalAve_textbox, null);
        }
        else
        {
            e.Cancel = true;
            generalAve_textbox.Focus();
            errorProvider1.SetError(generalAve_textbox, "This field is
required!");
        }
    }

    private void generalAve_textbox_Validating(object sender, CancelEventArgs
e)
    {
        if (generalAve_textbox.Text == "")
        {
            e.Cancel = false;
            errorProvider1.SetError(generalAve_textbox, null);
        }
        else
        {
            e.Cancel = true;
            generalAve_textbox.Focus();
            errorProvider1.SetError(generalAve_textbox, "This field is
required!");
        }
    }

    //event handler
    //region event handler automation
    private void recordsDT_CellClick(object sender,
DataGridViewCellEventArgs e)
    {
        string colName = recordsDT.Columns[e.ColumnIndex].Name;
        int mapehQ1 = 0, mapehQ2 = 0, mapehQ3 = 0, mapehQ4 = 0;

        if (colName == "FRatingColumn")
        {
            for (int i = 0; i < recordsDT.Rows.Count; ++i)
            {
                if (((Regex.IsMatch(recordsDT.Rows[i].Cells[1].Value.ToString(), @"^\d
{0,1},\d{2}/\d{2}$")) &&
(Regex.IsMatch(recordsDT.Rows[i].Cells[2].Value.ToString(), @"^\d{0-9}[0-9,\.]+\d
{0,1},\d{2}/\d{2}$")) &&
(Regex.IsMatch(recordsDT.Rows[i].Cells[3].Value.ToString(), @"^\d{0-9}[0-9,\.]+\d
{0,1},\d{2}/\d{2}$")) &&
(Regex.IsMatch(recordsDT.Rows[i].Cells[4].Value.ToString(), @"^\d{0-9}[0-9,\.]+\d
{0,1},\d{2}/\d{2}$")) &&
(recordsDT.Rows[i].Cells[1].Value.ToString() != "" &&
recordsDT.Rows[i].Cells[2].Value.ToString() != "" &&
recordsDT.Rows[i].Cells[3].Value.ToString() != "" &&
recordsDT.Rows[i].Cells[4].Value.ToString() != "") &&
(Convert.ToInt32(recordsDT.Rows[i].Cells[1].Value.ToString()) <= 101 &&
Convert.ToInt32(recordsDT.Rows[i].Cells[2].Value.ToString()) <= 101) &&
Convert.ToInt32(recordsDT.Rows[i].Cells[3].Value.ToString()) <= 101 &&
Convert.ToInt32(recordsDT.Rows[i].Cells[4].Value.ToString()) <= 101)) ||
(Convert.ToInt32(recordsDT.Rows[i].Cells[1].Value.ToString()) <= 101 &&
Convert.ToInt32(recordsDT.Rows[i].Cells[2].Value.ToString()) <= 101 &&
Convert.ToInt32(recordsDT.Rows[i].Cells[3].Value.ToString()) <= 101 &&
Convert.ToInt32(recordsDT.Rows[i].Cells[4].Value.ToString()) <= 101))
                {
                    fRating =
                    (Convert.ToInt32(recordsDT.Rows[i].Cells[1].Value.ToString()) +
Convert.ToInt32(recordsDT.Rows[i].Cells[2].Value.ToString()) +
Convert.ToInt32(recordsDT.Rows[i].Cells[3].Value.ToString()) +
Convert.ToInt32(recordsDT.Rows[i].Cells[4].Value.ToString())) / 4;
                    recordsDT.Rows[i].Cells[5].Value = fRating.ToString();
                }
                if ((Convert.ToInt32(recordsDT.Rows[i].Cells[5].Value.ToString()) >= 75 &&
Convert.ToInt32(recordsDT.Rows[i].Cells[6].Value.ToString()) <= 100))
                {
                    recordsDT.Rows[i].Cells[6].Value = "PASSED";
                }
                else if (Convert.ToInt32(recordsDT.Rows[i].Cells[5].Value.ToString()) <= 74)
                {
                    recordsDT.Rows[i].Cells[6].Value = "FAILED";
                }
                else
                {
                    recordsDT.Rows[i].Cells[5].Value = "";
                    recordsDT.Rows[i].Cells[6].Value = "";
                    generalAve_textbox.Text = "";
                    finalRemarks_textbox.Text = "N/A";
                }
            }
        }
        else if (colName == "Column1" && e.RowIndex == 7)
        {
            for (int i = 0; i < recordsDT.Rows.Count; ++i)
            {
                if ((recordsDT.Rows[i].Cells[1].Value.ToString() != "" &&
recordsDT.Rows[i].Cells[2].Value.ToString() != "" &&
recordsDT.Rows[i].Cells[3].Value.ToString() != "" &&
recordsDT.Rows[i].Cells[4].Value.ToString() != "") &&
((Regex.IsMatch(recordsDT.Rows[i].Cells[1].Value.ToString(), @"^\d{0-9}[0-9,\.]+\d
{0,1},\d{2}/\d{2}$")) &&
(Regex.IsMatch(recordsDT.Rows[i].Cells[2].Value.ToString(), @"^\d{0-9}[0-9,\.]+\d
{0,1},\d{2}/\d{2}$")) &&
(Regex.IsMatch(recordsDT.Rows[i].Cells[3].Value.ToString(), @"^\d{0-9}[0-9,\.]+\d
{0,1},\d{2}/\d{2}$")) &&
(Regex.IsMatch(recordsDT.Rows[i].Cells[4].Value.ToString(), @"^\d{0-9}[0-9,\.]+\d
{0,1},\d{2}/\d{2}$")))))
                {
                    mapehQ1 += Convert.ToInt32(recordsDT.Rows[i].Cells[1].Value.ToString());
                    mapehQ2 += Convert.ToInt32(recordsDT.Rows[i].Cells[2].Value.ToString());
                    mapehQ3 += Convert.ToInt32(recordsDT.Rows[i].Cells[3].Value.ToString());
                    mapehQ4 += Convert.ToInt32(recordsDT.Rows[i].Cells[4].Value.ToString());
                    recordsDT.Rows[7].Cells[1].Value =
                    Convert.ToInt32((mapehQ1 / 4)).ToString();
                    recordsDT.Rows[7].Cells[2].Value =
                    Convert.ToInt32((mapehQ2 / 4)).ToString();
                    recordsDT.Rows[7].Cells[3].Value =
                    Convert.ToInt32((mapehQ3 / 4)).ToString();
                    recordsDT.Rows[7].Cells[4].Value =
                    Convert.ToInt32((mapehQ4 / 4)).ToString();
                }
            }
        }
    }
}

```

Figures 31-44. Code-Behind of Grades.cs

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.OleDb;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Text.RegularExpressions;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace SMMIS__SMS
{
    public partial class GradesSMS : Form
    {
        OleDbConnection con;
        OleDbCommand cmd;
        OleDbDataReader dr;
        DBConn db = new DBConn();
        public GradesSMS()
        {
            InitializeComponent();
            con = new OleDbConnection(db.getConn());
            fillSF10SMS();
            defaultText();
        }
        private void exit_btn_Click(object sender, EventArgs e)
        {
            sy_textbox.Text = "";
            recordSet.Refresh();
            this.Close();
        }
        private void menu_combobox_SelectedIndexChanged(object sender, EventArgs e)
        {
            fillSF10SMS();
            //filling out grades and other infos of this form
            private void fillsSF10SMS()
            {
                if (menu_combobox.SelectedIndex == 0)
                {
                    if (trackstrand_textbox.Text == "Technical Vocational
Livelelihood/Home Economics")
                    {
                        Grade11TVL1SSelect();
                    }
                    else if (trackstrand_textbox.Text == "Academic Track/General
Academic Strand")
                    {
                        Grade11GASS1SSelect();
                    }
                }
                else if (menu_combobox.SelectedIndex == 1)
                {
                    if (trackstrand_textbox.Text == "Technical Vocational
Livelelihood/Home Economics")
                    {
                        Grade11TVL2SSelect();
                    }
                }
            }
        }
        public void updateG11TVLSQuery()
        {
            string query = "UPDATE Grade11 SET [IRN] = @IRN, [School]
= @School, [SchID] = @SchID, [SchYear] = @SchYear, [Sem] = @Sem, [TrackStrand]
= @TrackStrand, [Section] = @Section, [OralComQ1] = @OralComQ1, [OralComQ2] =
@OralComQ2, [OralComSemFinal] = @OralComSemFinal, [OralAction] =
@OralAction, [EarthSciQ1] = @EarthSciQ1, [EarthSciQ2] = @EarthSciQ2,
[EarthSciSemFinal] = @EarthSciSemFinal, [EarthSciAction] =
@EarthSciAction, [PEH1Q1] = @PEH1Q1, [PEH2Q1] = @PEH2Q1,
[PEHSemFinal] = @PEHSemFinal, [PEHAction] = @PEHAction,
[CapP1Q1] = @CapP1Q1, [CapP2Q1] = @CapP2Q1, [EAPPQ1] = @EAPPQ1,
[EAPPSemFinal] = @EAPPSemFinal, [EAPPAction] = @EAPPAction,
[BandP1Q1] = @BandP1Q1, [BandP2Q1] = @BandP2Q1,
[BandPSemFinal] = @BandPSemFinal, [BandPAction] = @BandPAction,
[GenAvC1S] = @GenAvC1S, [Finalraction1S] =
@Finalraction1S WHERE [IRN] = @IRN, [con];
            cmd.Parameters.AddWithValue("@IRN", lrn_textbox.Text);
            cmd.Parameters.AddWithValue("@School", school_textbox.Text);
            cmd.Parameters.AddWithValue("@SchID", schid_textbox.Text);
            cmd.Parameters.AddWithValue("@SchYear", schyear_textbox.Text);
            cmd.Parameters.AddWithValue("@Sem", sem_textbox.Text);
            cmd.Parameters.AddWithValue("@Section", section_textbox.Text);
            cmd.Parameters.AddWithValue("@OralComStrand", trackstrand_textbox.Text);
            cmd.Parameters.AddWithValue("@Section", section_textbox.Text);
            recordsDT.Rows[0].Cells[2].Value;
            cmd.Parameters.AddWithValue("@OralComQ1", recordsDT.Rows[0].Cells[3].Value);
            cmd.Parameters.AddWithValue("@OralComQ2", recordsDT.Rows[0].Cells[4].Value);
            cmd.Parameters.AddWithValue("@OralComSemFinal", recordsDT.Rows[0].Cells[5].Value);
        }
        else if (grade_textbox.Text == "11" & sem_textbox.Text ==
"2ND")
        {
            if (trackstrand_textbox.Text == "Technical
Vocational Livelihood/Home Economics")
            {
                updateG11TVLSQuery();
                MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
            }
            else if (trackstrand_textbox.Text == "Academic
Track/General Academic Strand")
            {
                updateG11GASS2Query();
                MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
            }
            else if (grade_textbox.Text == "12" & sem_textbox.Text ==
"1ST")
            {
                if (trackstrand_textbox.Text == "Technical
Vocational Livelihood/Home Economics")
                {
                    updateG12TVLS1Query();
                    MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                }
                else if (trackstrand_textbox.Text == "Academic
Track/General Academic Strand")
                {
                    updateG12GASS1Query();
                    MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                }
            }
            else if (grade_textbox.Text == "12" & sem_textbox.Text ==
"2ND")
            {
                if (trackstrand_textbox.Text == "Technical
Vocational Livelihood/Home Economics")
                {
                    updateG12TVLS2Query();
                    MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                }
                else if (trackstrand_textbox.Text == "Academic
Track/General Academic Strand")
                {
                    updateG12GASS2Query();
                    MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                }
            }
            else
            {
                MessageBox.Show("Something went wrong!", "MESSAGE",
                MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
        }
    }
}

```

```

else if (trackstrand_textbox.Text == "Academic Track/General
Academic Strand")
{
    Grade11GASS2Select();
}
else if (menu_combobox.SelectedIndex == 2)
{
    if (trackstrand_textbox.Text == "Technical Vocational
Livelelihood/Home Economics")
    {
        Grade12TVL1SSelect();
    }
    else if (trackstrand_textbox.Text == "Academic Track/General
Academic Strand")
    {
        Grade12GAS1SSelect();
    }
}
else if (menu_combobox.SelectedIndex == 3)
{
    if (trackstrand_textbox.Text == "Technical Vocational
Livelelihood/Home Economics")
    {
        Grade12TVL2SSelect();
    }
    else if (trackstrand_textbox.Text == "Academic Track/General
Academic Strand")
    {
        Grade12GAS2SSelect();
    }
}

private void update_btn_Click(object sender, EventArgs e)
{
    if (ValidateChildren(ValidationConstraints.Enabled))
    {
        if (finalAction_label.Text != "" & genave_label.Text != "")
        {
            gradesAutomateSave();
            if (MessageBox.Show("Are you sure you want to save this
record?", "MESSAGE", MessageBoxButtons.YesNo, MessageBoxIcon.Question) ==
DialogResult.Yes)
            {
                if(grade textBox.Text == "11" & sem textBox.Text ==
"1ST")
                {
                    if (trackstrand_textbox.Text == "Technical
Vocational Livelihood/Home Economics")
                    {
                        updateG11TVLSQuery();
                        MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                    }
                    else if (trackstrand_textbox.Text == "Academic
Track/General Academic Strand")
                    {
                        updateG11GASSQuery();
                        MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                    }
                }
                else if (grade textBox.Text == "12" & sem textBox.Text ==
"1ST")
                {
                    if (trackstrand_textbox.Text == "Technical
Vocational Livelihood/Home Economics")
                    {
                        updateG12TVLS1Query();
                        MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                    }
                    else if (trackstrand_textbox.Text == "Academic
Track/General Academic Strand")
                    {
                        updateG12GASS1Query();
                        MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                    }
                }
                else if (grade textBox.Text == "12" & sem textBox.Text ==
"2ND")
                {
                    if (trackstrand_textbox.Text == "Technical
Vocational Livelihood/Home Economics")
                    {
                        updateG12TVLS2Query();
                        MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                    }
                    else if (trackstrand_textbox.Text == "Academic
Track/General Academic Strand")
                    {
                        updateG12GASS2Query();
                        MessageBox.Show("Student info has been
successfully saved!", "MESSAGE", MessageBoxButtons.OK,
MessageBoxIcon.Information);
                    }
                }
            }
            else
            {
                MessageBox.Show("Input correct grades to continue!", "MESSAGE",
                MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
        }
        else
        {
            MessageBox.Show("Input correct grades to continue!", "MESSAGE",
                MessageBoxButtons.OK, MessageBoxIcon.Error);
        }
    }
}
//update query
#region update query
private void updateG11TVLSQuery()
{
    cmd = new OleDbCommand("UPDATE Grade11 SET [IRN] = @IRN, [School]
= @School, [SchID] = @SchID, [SchYear] = @SchYear, [Sem] = @Sem, [TrackStrand]
= @TrackStrand, [Section] = @Section, [OralComQ1] = @OralComQ1, [OralComQ2] =
@OralComQ2, [OralComSemFinal] = @OralComSemFinal, [OralAction] =
@OralAction, [EarthSciQ1] = @EarthSciQ1, [EarthSciQ2] = @EarthSciQ2,
[EarthSciSemFinal] = @EarthSciSemFinal, [EarthSciAction] =
@EarthSciAction, [PEH1Q1] = @PEH1Q1, [PEH2Q1] = @PEH2Q1,
[PEHSemFinal] = @PEHSemFinal, [PEHAction] = @PEHAction,
[CapP1Q1] = @CapP1Q1, [CapP2Q1] = @CapP2Q1, [EAPPQ1] = @EAPPQ1,
[EAPPSemFinal] = @EAPPSemFinal, [EAPPAction] = @EAPPAction,
[BandP1Q1] = @BandP1Q1, [BandP2Q1] = @BandP2Q1,
[BandPSemFinal] = @BandPSemFinal, [BandPAction] = @BandPAction,
[GenAvC1S] = @GenAvC1S, [Finalraction1S] =
@Finalraction1S WHERE [IRN] = @IRN, [con];
    cmd.Parameters.AddWithValue("@IRN", lrn_textbox.Text);
    cmd.Parameters.AddWithValue("@School", school_textbox.Text);
    cmd.Parameters.AddWithValue("@SchID", schid_textbox.Text);
    cmd.Parameters.AddWithValue("@SchYear", schyear_textbox.Text);
    cmd.Parameters.AddWithValue("@Sem", sem_textbox.Text);
    cmd.Parameters.AddWithValue("@Section", section_textbox.Text);
    cmd.Parameters.AddWithValue("@OralComStrand", trackstrand_textbox.Text);
    cmd.Parameters.AddWithValue("@Section", section_textbox.Text);
    recordsDT.Rows[0].Cells[2].Value;
    cmd.Parameters.AddWithValue("@OralComQ1", recordsDT.Rows[0].Cells[3].Value);
    cmd.Parameters.AddWithValue("@OralComQ2", recordsDT.Rows[0].Cells[4].Value);
    cmd.Parameters.AddWithValue("@OralComSemFinal", recordsDT.Rows[0].Cells[5].Value);
    recordsDT.Rows[0].Cells[5].Value);
}

```

```

        cmd.Parameters.AddWithValue("@QPKWKP1Q",
recordsDT.Rows[1].Cells[2].Value);
        cmd.Parameters.AddWithValue("@QPKWKP2Q",
recordsDT.Rows[1].Cells[3].Value);
        cmd.Parameters.AddWithValue("@QPKWKPSemFinal",
recordsDT.Rows[1].Cells[4].Value);
        cmd.Parameters.AddWithValue("@QPKWKPAction",
recordsDT.Rows[1].Cells[5].Value);
        cmd.Parameters.AddWithValue("@GenMath1Q",
recordsDT.Rows[2].Cells[1].Value);
        cmd.Parameters.AddWithValue("@GenMath2Q",
recordsDT.Rows[2].Cells[3].Value);
        cmd.Parameters.AddWithValue("@GenMathSemFinal",
recordsDT.Rows[2].Cells[4].Value);
        cmd.Parameters.AddWithValue("@GenMathAction",
recordsDT.Rows[2].Cells[5].Value);
        cmd.Parameters.AddWithValue("@EarthSci1Q",
recordsDT.Rows[3].Cells[2].Value);
        cmd.Parameters.AddWithValue("@EarthSci2Q",
recordsDT.Rows[3].Cells[4].Value);
        cmd.Parameters.AddWithValue("@EarthSciSemFinal",
recordsDT.Rows[3].Cells[5].Value);
        cmd.Parameters.AddWithValue("@EarthSciAction",
recordsDT.Rows[3].Cells[6].Value);
        cmd.Parameters.AddWithValue("@PEH1Q",
recordsDT.Rows[4].Cells[7].Value);
        cmd.Parameters.AddWithValue("@PEH2Q",
recordsDT.Rows[4].Cells[3].Value);
        cmd.Parameters.AddWithValue("@PEHSemFinal",
recordsDT.Rows[4].Cells[4].Value);
        cmd.Parameters.AddWithValue("@PEHAction",
recordsDT.Rows[4].Cells[5].Value);
        cmd.Parameters.AddWithValue("@EAPP1Q",
recordsDT.Rows[5].Cells[2].Value);
        cmd.Parameters.AddWithValue("@EAPP2Q",
recordsDT.Rows[5].Cells[3].Value);
        cmd.Parameters.AddWithValue("@EAPPSemFinal",
recordsDT.Rows[5].Cells[4].Value);
        cmd.Parameters.AddWithValue("@EAPPAction",
recordsDT.Rows[5].Cells[5].Value);
        cmd.Parameters.AddWithValue("@EAPPIQ",
recordsDT.Rows[5].Cells[6].Value);
        cmd.Parameters.AddWithValue("@EAPP2Q",
recordsDT.Rows[5].Cells[7].Value);
        cmd.Parameters.AddWithValue("@EAPPSemFinal",
recordsDT.Rows[6].Cells[4].Value);
        cmd.Parameters.AddWithValue("@EAPPAction",
recordsDT.Rows[6].Cells[5].Value);
        cmd.Parameters.AddWithValue("@BandP1Q",
recordsDT.Rows[6].Cells[2].Value);
        cmd.Parameters.AddWithValue("@BandP2Q",
recordsDT.Rows[6].Cells[3].Value);
        cmd.Parameters.AddWithValue("@BandPSemFinal",
recordsDT.Rows[6].Cells[4].Value);
        cmd.Parameters.AddWithValue("@BandPAction",
recordsDT.Rows[6].Cells[5].Value);
        cmd.Parameters.AddWithValue("@GeoAve1S", genave_label.Text);
        cmd.Parameters.AddWithValue("@FinalAction1S",
finalAction_label.Text);
        cmd.ExecuteNonQuery();
        con.Close();
    }

    private void updateG11TQLS2Query()
    {
        cmd = new OleDbCommand("SP_UPDATE Grade11 SET [LRN] = @LRN, [School]
= @School, [SchID] = @SchID, [SchYear] = @SchYear, [Sem] = @Sem, [Track_ Strand]
= @Track_ Strand, [Section] = @Section, [Section2] = @Section2, [RandW1Q] =
@RandW1Q, [RandW2Q] = @RandW2Q, [RandW4Q] = @RandW4Q,
[RandWSemFinal] = @RandWSemFinal, [RandWAction] = @RandWAction,
[Pagbasa3Q] = @Pagbasa3Q, [Pagbasa3SemFinal] = @Pagbasa3SemFinal, [Pagbasa4Q] =
@Pagbasa4Q, [Pagbasa4SemFinal] = @Pagbasa4SemFinal, [Pagbasa5Action] =
@Pagbasa5Action,
[StatProb3Q] = @StatProb3Q, [StatProbSemFinal] = @StatProbSemFinal, [StatsProb4Q] =
@StatsProb4Q,
[Physics3Q] = @Physics3Q, [Physics3SemFinal] = @Physics3SemFinal, [PhysicsAction] =
@Physics3Action, [Physics3Q2] = @PEH2SemFinal, [PEH2Action] = @PEH2Action,
[PEH2Q] = @PEH2Q, [PEH24Q] = @PE24Q,
[PR1SemFinal] = @PR1SemFinal, [PR1Action] = @PR1Action,
[PR1Q] = @PR1Q, [PR14Q] = @PR14Q,
[PR1SemFinal] = @PR1SemFinal, [PR1Action] = @PR1Action");
        cmd.ExecuteNonQuery();
    }
}

```



```

[PEH3SemFinal] = @PEH3SemFinal, [PEH3Action] = @PEH3Action,
    [Entrep1Q] = @Entrep1Q, [Entrep2Q] = @Entrep2Q,
    [EntrepSemFinal] = @EntrepSemFinal, [EntrepAction] = @EntrepAction,
    [PR21Q] = @PR21Q, [PR22Q] = @PR22Q,
    [PR2SemFinal] = @PR2SemFinal, [PR2Action] = @PR2Action,
    [Religion1Q] = @Religion1Q, [Religion2Q] = @Religion2Q,
    [ReligionSemFinal] = @ReligionSemFinal, [ReligionAction] = @ReligionAction,
    [PPGov1Q] = @PPGov1Q, [PPGov2Q] = @PPGov2Q,
    [PPGovSemFinal] = @PPGovSemFinal, [PPGovAction] = @PPGovAction,
    [Geneva1S] = @Geneva1S, [FinalAction1S] =
    @FinalActions WHERF [LRN] = @LRN, con)
    cmd.Parameters.AddWithValue("@BLR4", lrn.textBox.Text);
    cmd.Parameters.AddWithValue("@School1", school.textBox.Text);
    cmd.Parameters.AddWithValue("@Schchild", schid.textBox.Text);
    cmd.Parameters.AddWithValue("@Schyear", sys.textBox.Text);
    cmd.Parameters.AddWithValue("@Sem", sem.textBox.Text);
    cmd.Parameters.AddWithValue("@Track_Strand",
trackstrand);
    cmd.Parameters.AddWithValue("@Section", section.textBox.Text);
    cmd.Parameters.AddWithValue("@IntroPhiloiQ",
recordsDT.Rows[0].Cells[2].Value);
    cmd.Parameters.AddWithValue("@IntroPhiloiQ",
recordsDT.Rows[0].Cells[3].Value);
    cmd.Parameters.AddWithValue("@IntroPhiloSemFinal",
recordsDT.Rows[0].Cells[4].Value);
    cmd.Parameters.AddWithValue("@IntroPhilAction",
recordsDT.Rows[0].Cells[5].Value);
    cmd.Parameters.AddWithValue("@UCSP1Q",
recordsDT.Rows[1].Cells[2].Value);
    cmd.Parameters.AddWithValue("@UCSP2Q",
recordsDT.Rows[1].Cells[3].Value);
    cmd.Parameters.AddWithValue("@UCSPSemFinal",
recordsDT.Rows[1].Cells[4].Value);
    cmd.Parameters.AddWithValue("@UCSPAction",
recordsDT.Rows[1].Cells[5].Value);
    cmd.Parameters.AddWithValue("@CPAR1Q",
recordsDT.Rows[2].Cells[2].Value);
    cmd.Parameters.AddWithValue("@CPAR2Q",
recordsDT.Rows[2].Cells[3].Value);
    cmd.Parameters.AddWithValue("@CPARSemFinal",
recordsDT.Rows[2].Cells[4].Value);
    cmd.Parameters.AddWithValue("@CPARAction",
recordsDT.Rows[2].Cells[5].Value);
    cmd.Parameters.AddWithValue("@PEH31Q",
recordsDT.Rows[3].Cells[2].Value);
    cmd.Parameters.AddWithValue("@PEH32Q",
recordsDT.Rows[3].Cells[3].Value);
    cmd.Parameters.AddWithValue("@PEH3SemFinal",
recordsDT.Rows[3].Cells[4].Value);
    cmd.Parameters.AddWithValue("@PEH3Action",
recordsDT.Rows[3].Cells[5].Value);
    cmd.Parameters.AddWithValue("@BEntrep1Q",
recordsDT.Rows[4].Cells[2].Value);
    cmd.Parameters.AddWithValue("@BEntrep2Q",
recordsDT.Rows[4].Cells[3].Value);
    cmd.Parameters.AddWithValue("@EntrepSemFinal",
recordsDT.Rows[4].Cells[4].Value);
    cmd.Parameters.AddWithValue("@EntrepAction",
recordsDT.Rows[4].Cells[5].Value);
    cmd.Parameters.AddWithValue("@PRP21Q",
recordsDT.Rows[5].Cells[2].Value);
    cmd.Parameters.AddWithValue("@PRP22Q",

```

```

        cmd.Parameters.AddWithValue("@III4Q",
recordsDT.Rows[4].Cells[3].Value);
        cmd.Parameters.AddWithValue("@III5SemFinal",
recordsDT.Rows[4].Cells[4].Value);
        cmd.Parameters.AddWithValue("@III6Action",
recordsDT.Rows[4].Cells[5].Value);
        cmd.Parameters.AddWithValue("AppliedEcon3Q",
recordsDT.Rows[5].Cells[2].Value);
        cmd.Parameters.AddWithValue("AppliedEcon4Q",
recordsDT.Rows[5].Cells[3].Value);
        cmd.Parameters.AddWithValue("AppliedEconSemFinal",
recordsDT.Rows[5].Cells[4].Value);
        cmd.Parameters.AddWithValue("AppliedEconAction",
recordsDT.Rows[5].Cells[5].Value);
        cmd.Parameters.AddWithValue("@Elec2CNonfiction3Q",
recordsDT.Rows[6].Cells[2].Value);
        cmd.Parameters.AddWithValue("@Elec2CNonfiction4Q",
recordsDT.Rows[6].Cells[3].Value);
        cmd.Parameters.AddWithValue("@Elec2CNonfictionSemFinal",
recordsDT.Rows[6].Cells[4].Value);
        cmd.Parameters.AddWithValue("Elec2CNonfictionAction",
recordsDT.Rows[6].Cells[5].Value);
        cmd.Parameters.AddWithValue("WorkImm3Q",
recordsDT.Rows[7].Cells[2].Value);
        cmd.Parameters.AddWithValue("WorkImm4Q",
recordsDT.Rows[7].Cells[3].Value);
        cmd.Parameters.AddWithValue("WorkImmSemFinal",
recordsDT.Rows[7].Cells[4].Value);
        cmd.Parameters.AddWithValue("WorkImmAction",
recordsDT.Rows[7].Cells[5].Value);
        cmd.Parameters.AddWithValue("GenAve2S", genave_label.Text);
        cmd.Parameters.AddWithValue("FinalAction2S",
finalAction_label.Text);
        cmd.ExecuteNonQuery();
        con.Close();
    }

    #endregion

    //Select Query for recordsDT
    #region select
    public void Grade11TVL1SSelect()
    {
        recordsDT.Rows.Clear();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN = @LRN",
con);
        cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            school_textbox.Text = dr["School"].ToString();
            schid_textbox.Text = dr["SchID"].ToString();
            section_textbox.Text = dr["Section"].ToString();
            grade_textbox.Text = "11";
            sy_textbox.Text = dr["SchYear"].ToString();
            trackstrand_textbox.Text = "Technical Vocational Livelihood/Home Economics";
            sem_textbox.Text = "1ST";
            quarter1_textbox.Text = "1ST";
            quarter2_textbox.Text = "2ND";
            genave_label.Text = dr["GenAve1S"].ToString();
            finalAction_label.Text = dr["FinalActions1S"].ToString();
            recordsDT.Rows.Add("Core", "Oral Communication",
Economics");
            sem_textbox.Text = "1ST";
            quarter1_textbox.Text = "1ST";
            quarter2_textbox.Text = "2ND";
            genave_label.Text = dr["GenAve1S"].ToString();
            finalAction_label.Text = dr["FinalActions1S"].ToString();
            recordsDT.Rows.Add("Core", "Oral Communication",
recordsDT.Rows.Add("Core", "General Mathematics",
"General Math1Q").ToString(), dr["GenMath2Q"].ToString(),
"General MathFinal1").ToString(), dr["GenMathAction1").ToString());
            recordsDT.Rows.Add("Core", "Earth Science",
"EarthSci1Q").ToString(), dr["EarthSci2Q").ToString());
            recordsDT.Rows.Add("Core", "Physical Education and Health",
"PEH2Q").ToString(), dr["PEH2Q").ToString(), dr["PEH2SemFinal").ToString(),
"PEH2Action").ToString());
            recordsDT.Rows.Add("Applied", "English for Academic and Professional Purposes", dr["EAPP1Q").ToString(), dr["EAPP2Q").ToString(),
"EAPPSemFinal1").ToString(), dr["EAPPAction1").ToString());
            recordsDT.Rows.Add("Specialized", "Bread and Pastry Production (NCTI )", dr["BandP1Q").ToString(), dr["BandP2Q").ToString(),
"BandPSemFinal").ToString(), dr["BandPAction1").ToString());
            dr.Close();
            con.Close();
        }
    }

    public void Grade11GAS1SSelect()
    {
        recordsDT.Rows.Clear();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN = @LRN",
con);
        cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            school_textbox.Text = dr["School"].ToString();
            schid_textbox.Text = dr["SchID"].ToString();
            section_textbox.Text = dr["Section"].ToString();
            grade_textbox.Text = "11";
            sy_textbox.Text = dr["SchYear"].ToString();
            trackstrand_textbox.Text = "Academic Track/General Academic Strand";
            sem_textbox.Text = "1ST";
            quarter1_textbox.Text = "1ST";
            quarter2_textbox.Text = "2ND";
            genave_label.Text = dr["GenAve1S"].ToString();
            finalAction_label.Text = dr["FinalActions1S"].ToString();
            recordsDT.Rows.Add("Core", "Oral Communication",
"OralCom1Q").ToString(), dr["OralCom2Q").ToString(),
"OralComSemFinal1").ToString(), dr["OralComAction1").ToString());
            recordsDT.Rows.Add("Core", "General Mathematics",
"General Math1Q").ToString(), dr["General Math2Q").ToString(),
"General MathFinal1").ToString(), dr["General MathAction1").ToString());
            recordsDT.Rows.Add("Core", "Earth and Life Science",
"EarthSci1Q").ToString(), dr["EarthSci2Q").ToString());
            recordsDT.Rows.Add("Core", "21st Century Literature from the Philippines and the World", dr["21stLitAsiaQ1").ToString(),
"21stLitAsiaQ2").ToString(), dr["21stLitAsiaFinal1").ToString(),
"21stLitAsiaAction1").ToString());
            recordsDT.Rows.Add("Core", "Creative Writing / Malikhain Pagsatul", dr["CwritingMP3Q").ToString(), dr["CwritingMP4Q").ToString(),
"WritingMPSemFinal").ToString(), dr["CwritingMPAction1").ToString());
            dr.Close();
            con.Close();
        }
    }

    private void Grade11TVL2SSelect()
    {
        recordsDT.Rows.Clear();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN = @LRN",
con);
        cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            school_textbox.Text = dr["School"].ToString();
            schid_textbox.Text = dr["SchID"].ToString();
            section_textbox.Text = dr["Section"].ToString();
            grade_textbox.Text = "11";
            sy_textbox.Text = dr["SchYear"].ToString();
            trackstrand_textbox.Text = "Technical Vocational Livelihood/Home Economics";
            sem_textbox.Text = "2ND";
            quarter1_textbox.Text = "3RD";
            quarter2_textbox.Text = "4TH";
            genave_label.Text = dr["GenAve2S"].ToString();
            finalAction_label.Text = dr["FinalActions2S").ToString();
            recordsDT.Rows.Add("Core", "Reading and Writing",
"Randu2Q").ToString(), dr["RanduAction1").ToString());
            dr["RanduSemFinal1").ToString(), dr["RanduAction2").ToString());
            recordsDT.Rows.Add("Core", "Pagbasa at Pagusuri ng Iba't Ibang Teksto Tungo sa Pananaliksik", dr["Pagbasa3Q").ToString(),
"PagbasaSemFinal").ToString(), dr["PagbasaAction1").ToString());
            recordsDT.Rows.Add("Core", "Statistics and Probability",
"StatsProb3Q").ToString(), dr["StatsProb4Q").ToString(),
"StatsProbSemFinal1").ToString(), dr["StatsProbAction1").ToString());
            recordsDT.Rows.Add("Core", "Physical Science",
"PhysSci1Q").ToString(), dr["PhysSci2Q").ToString(),
"PhysSciFinal1").ToString(), dr["PhysSciAction1").ToString());
            recordsDT.Rows.Add("Core", "Physical Education and Health",
"PEH2Q").ToString(), dr["PEH2Q").ToString(), dr["PEH2SemFinal").ToString(),
"PEH2Action").ToString());
            recordsDT.Rows.Add("Applied", "Practical Research 1",
"PR130").ToString(), dr["PR140Q").ToString(), dr["PR1SemFinal").ToString(),
"PR1Action1").ToString());
            recordsDT.Rows.Add("Applied", "Filipino sa Piling Larangan",
"FilPL3Q").ToString(), dr["FilPL4Q").ToString(),
"FilPLSemFinal1").ToString(), dr["FilPLAction1").ToString());
            recordsDT.Rows.Add("Specialized", "Food and Beverage Services NC
II", dr["FBSSQ").ToString(), dr["FB54Q").ToString(),
"FBSSemFinal1").ToString(), dr["FB5Action1").ToString());
            dr.Close();
            con.Close();
        }
    }

    private void Grade11GAS2SSelect()
    {
        recordsDT.Rows.Clear();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN = @LRN",
con);
        cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            school_textbox.Text = dr["School"].ToString();
            schid_textbox.Text = dr["SchID"].ToString();
            section_textbox.Text = dr["Section"].ToString();
            grade_textbox.Text = "11";
            sy_textbox.Text = dr["SchYear"].ToString();
            trackstrand_textbox.Text = "Academic Track/General Academic Strand";
            sem_textbox.Text = "2ND";
            quarter1_textbox.Text = "3RD";
            quarter2_textbox.Text = "4TH";
            genave_label.Text = dr["GenAve2S").ToString();
            finalAction_label.Text = dr["FinalActions2S").ToString();
            recordsDT.Rows.Add("Core", "Reading and Writing",
"Randu4Q").ToString(), dr["RanduAction1").ToString());
            dr["RanduSemFinal1").ToString(), dr["RanduAction2").ToString());
            recordsDT.Rows.Add("Core", "Bading and Writing",
"Randu4Q").ToString(), dr["RanduAction1").ToString());
            dr["RanduSemFinal1").ToString(), dr["RanduAction2").ToString());
            recordsDT.Rows.Add("Core", "Statistics and Probability",
"StatsProb3Q").ToString(), dr["StatsProb4Q").ToString(),
"StatsProbSemFinal1").ToString(), dr["StatsProbAction1").ToString());
            recordsDT.Rows.Add("Core", "Physical Science",
"PhysSci1Q").ToString(), dr["PhysSci2Q").ToString(),
"PhysSciFinal1").ToString(), dr["PhysSciAction1").ToString());
            recordsDT.Rows.Add("Core", "Physical Education and Health",
"PEH2Q").ToString(), dr["PEH2Q").ToString(), dr["PEH2SemFinal").ToString(),
"PEH2Action").ToString());
            recordsDT.Rows.Add("Applied", "Practical Research 1",
"PR130").ToString(), dr["PR140Q").ToString(), dr["PR1SemFinal").ToString(),
"PR1Action1").ToString());
            recordsDT.Rows.Add("Applied", "Filipino sa Piling Larangan",
"FilPL3Q").ToString(), dr["FilPL4Q").ToString(),
"FilPLSemFinal1").ToString(), dr["FilPLAction1").ToString());
            recordsDT.Rows.Add("Specialized", "Food and Beverage Services NC
III", dr["FBSSQ").ToString(), dr["FB54Q").ToString(),
"FBSSemFinal1").ToString(), dr["FB5Action1").ToString());
            dr.Close();
            con.Close();
        }
    }

    private void Grade11GAS3SSelect()
    {
        recordsDT.Rows.Clear();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN = @LRN",
con);
        cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            school_textbox.Text = dr["School"].ToString();
            schid_textbox.Text = dr["SchID"].ToString();
            section_textbox.Text = dr["Section"].ToString();
            grade_textbox.Text = "11";
            sy_textbox.Text = dr["SchYear"].ToString();
            trackstrand_textbox.Text = "Academic Track/General Academic Strand";
            sem_textbox.Text = "2ND";
            quarter1_textbox.Text = "3RD";
            quarter2_textbox.Text = "4TH";
            genave_label.Text = dr["GenAve2S").ToString();
            finalAction_label.Text = dr["FinalActions2S").ToString();
            recordsDT.Rows.Add("Core", "Reading and Writing",
"Randu4Q").ToString(), dr["RanduAction1").ToString());
            dr["RanduSemFinal1").ToString(), dr["RanduAction2").ToString());
            recordsDT.Rows.Add("Core", "Bading and Writing",
"Randu4Q").ToString(), dr["RanduAction1").ToString());
            dr["RanduSemFinal1").ToString(), dr["RanduAction2").ToString());
            recordsDT.Rows.Add("Core", "Statistics and Probability",
"StatsProb3Q").ToString(), dr["StatsProb4Q").ToString(),
"StatsProbSemFinal1").ToString(), dr["StatsProbAction1").ToString());
            recordsDT.Rows.Add("Core", "Physical Science",
"PhysSci1Q").ToString(), dr["PhysSci2Q").ToString(),
"PhysSciFinal1").ToString(), dr["PhysSciAction1").ToString());
            recordsDT.Rows.Add("Core", "Physical Education and Health",
"PEH2Q").ToString(), dr["PEH2Q").ToString(), dr["PEH2SemFinal").ToString(),
"PEH2Action").ToString());
            recordsDT.Rows.Add("Applied", "Practical Research 1",
"PR130").ToString(), dr["PR140Q").ToString(), dr["PR1SemFinal").ToString(),
"PR1Action1").ToString());
            recordsDT.Rows.Add("Applied", "Filipino sa Piling Larangan",
"FilPL3Q").ToString(), dr["FilPL4Q").ToString(),
"FilPLSemFinal1").ToString(), dr["FilPLAction1").ToString());
            recordsDT.Rows.Add("Specialized", "Disaster Readiness and Risk Reduction", dr["DRRBSQ").ToString(), dr["DRR84Q").ToString(),
"DRRBSemFinal1").ToString(), dr["DRRAction1").ToString());
            recordsDT.Rows.Add("Specialized", "Creative Writing / Malikhain Pagsatul", dr["CwritingMP3Q").ToString(), dr["CwritingMP4Q").ToString(),
"WritingMPSemFinal").ToString(), dr["CwritingMPAction1").ToString());
            dr.Close();
            con.Close();
        }
    }

    private void Grade12TVL1SSelect()
    {

```


Figures 45-80. Code-Behind of

GradesSHS.cs

```

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;
using System.Data.OleDb;
using System.Globalization;

namespace SMMIS__SMS
{
    public partial class ManageStd : Form
    {
        OleDbConnection con;
        OleDbCommand cmd;
        OleDbDataReader dr;
        DBConn db = new DBConn();
        public ManageStd()
        {
            InitializeComponent();
            InitializeComponent();
            OleDbConnection dbConn = db.getConn();
            LoadStudents();
            hideSortCmbx();
        }

        private void refresh_btn_Click(object sender, EventArgs e)
        {
            LoadStudents();
            hideSortCmbx();
        }

        //Creating a student
        private void create_btn_Click(object sender, EventArgs e)
        {
            AddEditstd z = new AddEditstd(this);
            z.ShowDialog();
            if (sort_cmbx.SelectedIndex == 2 && z.saveClicked == true || sort_cmbx.SelectedIndex == 2 && z.saveClicked == false)
            {
                AllStudents();
            }
            else if (gradeSort_cmbx.SelectedIndex > -1 && z.saveClicked == true || gradeSort_cmbx.SelectedIndex > -1 && z.saveClicked == false)
            {
                gradeSort();
            }
            else if (statusSort_cmbx.SelectedIndex > -1 && z.saveClicked == true || statusSort_cmbx.SelectedIndex > -1 && z.saveClicked == false)
            {
                statusSort();
            }
            else
            {
                LoadStudents();
            }
        }

        public void LoadStudents()
        {
            manageDT.Rows.Clear();
            int r = 0;
            con.Open();
            cmd = new OleDbCommand("SELECT * FROM Students WHERE Status = 'Active' ", con);
            dr = cmd.ExecuteReader();
            while(dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
                    dr["NameExtn"].ToString();
                manageDT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
                    dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                    dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                    dr["Year"].ToString(), "View", "Update", "Delete", dr["Address"].ToString(),
                    dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
                r++;
            }
            dr.Close();
            con.Close();
        }

        //Search and Filter Students
        #region search & filter
        public void SearchStudents()
        {
            if (search_txtbox.Text == "")
            {
                loadStudents();
            }
            else
            {
                manageDT.Rows.Clear();
                int r = 0;
                string query = search_txtbox.Text;
                con.Open();
                cmd = new OleDbCommand("SELECT * FROM Students WHERE FirstName like '" + query + "%' OR LRN like '" + query + "%' OR LastName like '" + query + "%'", con);
                cmd.Parameters.AddWithValue("@query", query);
                dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    string last_ext = dr["LastName"].ToString() + ' ' +
                        dr["NameExtn"].ToString();
                    manageDT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
                        dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                        dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                        dr["Year"].ToString(), "View", "Update", "Delete", dr["Address"].ToString(),
                        dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
                    r++;
                }
                dr.Close();
                con.Close();
            }
        }

        private void search_txtbox_TextChanged(object sender, EventArgs e)
        {
            SearchStudents();
        }

        public void hideSortCmbx()
        {
            gradeSort_cmbx.Visible = false;
            sort_cmbx.ResetText();
            gradeSort_cmbx.ResetText();
            statusSort_cmbx.Visible = false;
            statusSort_cmbx.ResetText();
            search_txtbox.Text = "";
        }

        private void sort_cmbx_SelectedIndexChanged(object sender, EventArgs e)
        {
            hideSortCmbx();
            sortCmbx();
        }

        private void sortCmbx()
        {
            if (sort_cmbx.SelectedIndex == 0)
            {
                gradeSort_cmbx.Visible = true;
                statusSort_cmbx.Visible = false;
                search_txtbox.Visible = false;
            }
            else if (sort_cmbx.SelectedIndex == 1)
            {
                statusSort_cmbx.Visible = true;
                gradeSort_cmbx.Visible = false;
                search_txtbox.Visible = false;
            }
            else if (sort_cmbx.SelectedIndex == 2)
            {
                search_txtbox.Visible = true;
                AllStudents();
            }
        }

        private void gradeSort_cmbx_SelectedIndexChanged(object sender, EventArgs e)
        {
            gradeSort();
        }

        private void statusSort_cmbx_SelectedIndexChanged(object sender, EventArgs e)
        {
            statusSort();
        }

        public void statusSort()
        {
            manageDT.Rows.Clear();
            int r = 0;
            string query = statusSort_cmbx.SelectedItem.ToString();
            con.Open();
            cmd = new OleDbCommand("SELECT * FROM Students WHERE Status like '" + query + "' ", con);
            cmd.Parameters.AddWithValue("@query", query);
            dr = cmd.ExecuteReader();
            while (dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
                    dr["NameExtn"].ToString();
                r++;
                manageDT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
                    dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                    dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                    dr["Year"].ToString(), "View", "Update", "Delete", dr["Address"].ToString(),
                    dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
            }
            dr.Close();
            con.Close();
        }

        public void AllStudents()
        {
            manageDT.Rows.Clear();
            int r = 0;
            con.Open();
            cmd = new OleDbCommand("SELECT * FROM Students", con);
            dr = cmd.ExecuteReader();
            while (dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
                    dr["NameExtn"].ToString();
                manageDT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
                    dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                    dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                    dr["Year"].ToString(), "View", "Update", "Delete", dr["Address"].ToString(),
                    dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
                r++;
            }
            dr.Close();
            con.Close();
        }

        public void gradeSort()
        {
            manageDT.Rows.Clear();
            int r = 0;
            string query = gradeSort_cmbx.SelectedItem.ToString();
            con.Open();
            cmd = new OleDbCommand("SELECT * FROM Students WHERE GradeLevel like '" + query + "' AND Status like 'Active' ", con);
            cmd.Parameters.AddWithValue("@query", query);
            dr = cmd.ExecuteReader();
            while (dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
                    dr["NameExtn"].ToString();
                manageDT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
                    dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                    dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                    dr["Year"].ToString(), "View", "Update", "Delete", dr["Address"].ToString(),
                    dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
                r++;
            }
            dr.Close();
            con.Close();
        }

        #endregion

        //View, Update, Delete Students
        private void manageDT_CellContentClick(object sender, DataGridViewCellEventArgs e)
        {
        }
    }
}

```

```

string colName = manageDT.Columns[e.ColumnIndex].Name;
if(colName == "view")
{
    using (AddEditStd z = new AddEditStd(this))
    {
        //Disabling Controls and Removing Buttons
        z.save_btn.Visible = false;
        z.cancel_btn.Visible = false;
        z.close_btn.Visible = true;
        z.top_panel.BackColor = ColorTranslator.FromHtml("#002d62");
        z.bot_panel.BackColor = ColorTranslator.FromHtml("#002d62");
        z.right_panel.BackColor =
        ColorTranslator.FromHtml("#002d62");
        z.left_panel.BackColor =
        ColorTranslator.FromHtml("#002d62");
        z.title_label.Text = "View";
        z.title_label.ForeColor = Color.WhiteSmoke;
        z.disableControls();
    }

    z.lrn_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[1].Value.ToString();
    z.fname_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[3].Value.ToString();
    z.mname_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[5].Value.ToString();
    z.nameEx_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[14].Value.ToString();

    //For Last Name
    con.Open();
    cmd = new OleDbCommand("SELECT * FROM Students WHERE LRN =
@Query ", con);
    cmd.Parameters.AddWithValue("@Query", z.lrn_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[1].Value.ToString());
    dr = cmd.ExecuteReader();
    while (dr.Read())
    {
        z.lname_txtbox.Text = dr["LastName"].ToString();
    }
    dr.Close();
    con.Close();
}

#region gender
string _gender =
manageDT.Rows[e.RowIndex].Cells[5].Value.ToString();
if (_gender == "Male")
{
    z_male_rd.Checked = true;
    z_female_rd.Checked = false;
}
else if (_gender == "Female")
{
    z_female_rd.Checked = true;
    z_male_rd.Checked = false;
}
#endregion

z.stdstatus_cmbx.Text =
manageDT.Rows[e.RowIndex].Cells[7].Value.ToString();
if (manageDT.Rows[e.RowIndex].Cells[7].Value.ToString() ==
"Active")
{
    z.disableControls();
}

z.year_txtbox.Text =
manageDT.Rows[e.RowIndex].Cells[8].Value.ToString();
z.address_txtbox.Text =
manageDT.Rows[e.RowIndex].Cells[12].Value.ToString();

#region strand and grade
string _strand =
manageDT.Rows[e.RowIndex].Cells[6].Value.ToString();
if (_strand == "12 - GAS" || _strand == "11 - GAS")
{
    z.strand_cmbx.Text = "GAS";
    if (_strand == "12 - GAS")
    {
        z.grdlvl_cmbx.Text = "12";
    }
    else if (_strand == "11 - GAS")
    {
        z.grdlvl_cmbx.Text = "11";
    }
}
else if (_strand == "12 - TVL" || _strand == "11 - TVL")
{
    z.strand_cmbx.Text = "TVL";
    if (_strand == "12 - TVL")
    {
        z.grdlvl_cmbx.Text = "12";
    }
    else if (_strand == "11 - TVL")
    {
        z.grdlvl_cmbx.Text = "11";
    }
}
else if (managedDT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"7")
{
    z.grdlvl_cmbx.Text = "?";
}
else if (managedDT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"8")
{
    z.grdlvl_cmbx.Text = "8";
}
else if (managedDT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"9")
{
    z.grdlvl_cmbx.Text = "9";
}
else if (managedDT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"10")
{
    z.grdlvl_cmbx.Text = "10";
}
#endregion

string _bdy =
manageDT.Rows[e.RowIndex].Cells[13].Value.ToString();
DateTime bdy = DateTime.ParseExact(_bdy, "MM/dd/yyyy",
CultureInfo.InvariantCulture);

z.bdate_picker.Value = bdy;
z.ShowDialog();
}

else if(colName == "UpdateEdit")
{
    using (AddEditStd z = new AddEditStd(this))
    {
        z.top_panel.BackColor = ColorTranslator.FromHtml("#a600e1");
        z.bot_panel.BackColor = ColorTranslator.FromHtml("#a600e1");
        z.left_panel.BackColor =
        ColorTranslator.FromHtml("#a600e1");
        z.right_panel.BackColor =
        ColorTranslator.FromHtml("#a600e1");
        z.title_label.Text = "Update";
        z.title_label.ForeColor = Color.WhiteSmoke;

        z.save_btn.Visible = false;
        z.cancel_btn.Visible = false;
        z.close_btn.Visible = true;
        z.update_btn.Visible = true;
    }

    z.lrn_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[1].Value.ToString();
    z.fname_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[3].Value.ToString();
    z.mname_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[5].Value.ToString();
    z.nameEx_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[14].Value.ToString();

    //For Last Name
    con.Open();
    cmd = new OleDbCommand("SELECT * FROM Students WHERE LRN =
@Query ", con);
    cmd.Parameters.AddWithValue("@Query", z.lrn_txtbox.Text =
    manageDT.Rows[e.RowIndex].Cells[1].Value.ToString());
    dr = cmd.ExecuteReader();
    while (dr.Read())
    {
        z.lname_txtbox.Text = dr["LastName"].ToString();
    }
    dr.Close();
    con.Close();

}

#region gender
string _gender =
manageDT.Rows[e.RowIndex].Cells[5].Value.ToString();
if (_gender == "Male")
{
    z_male_rd.Checked = true;
    z_female_rd.Checked = false;
}
else if (_gender == "Female")
{
    z_female_rd.Checked = true;
    z_male_rd.Checked = false;
}
#endregion

z.stdstatus_cmbx.Text =
manageDT.Rows[e.RowIndex].Cells[7].Value.ToString();

z.year_txtbox.Text =
manageDT.Rows[e.RowIndex].Cells[8].Value.ToString();
z.address_txtbox.Text =
manageDT.Rows[e.RowIndex].Cells[12].Value.ToString();

string _strand =
manageDT.Rows[e.RowIndex].Cells[6].Value.ToString();
if (_strand == "12 - GAS" || _strand == "11 - GAS")
{
    z.strand_cmbx.Text = "GAS";
    if (_strand == "12 - GAS")
    {
        z.grdlvl_cmbx.Text = "12";
    }
    else if (_strand == "11 - GAS")
    {
        z.grdlvl_cmbx.Text = "11";
    }
}
else if (_strand == "12 - TVL" || _strand == "11 - TVL")
{
    z.strand_cmbx.Text = "TVL";
    if (_strand == "12 - TVL")
    {
        z.grdlvl_cmbx.Text = "12";
    }
    else if (_strand == "11 - TVL")
    {
        z.grdlvl_cmbx.Text = "11";
    }
}
else if (managedDT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"?")
{
    z.grdlvl_cmbx.Text = "?";
}
else if (managedDT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"8")
{
    z.grdlvl_cmbx.Text = "8";
}
else if (managedDT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"9")
{
    z.grdlvl_cmbx.Text = "9";
}
else if (managedDT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"10")
{
    z.grdlvl_cmbx.Text = "10";
}

#endregion

string _bdy =
manageDT.Rows[e.RowIndex].Cells[13].Value.ToString();
DateTime bdy = DateTime.ParseExact(_bdy, "MM/dd/yyyy",
CultureInfo.InvariantCulture);
z.bdate_picker.Value = bdy;
z.ShowDialog();
}

```

Figures 81-89. Code-Behind of

ManageStd.cs

```

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;
using System.Data.OleDb;
using System.Windows.Forms;

namespace SHMMS__SMS
{
    public partial class Login : Form
    {
        OleDbConnection con;
        OleDbCommand cmd;
        OleDbDataReader dr;
        OleDbConn db = new OleDbConn();
        public Login()
        {
            InitializeComponent();
            con = new OleDbConnection(db.getConn());
        }

        private void exit btn_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }

        private void pass_PB_MouseUp(object sender, MouseEventArgs e)
        {
            password textbox.UseSystemPasswordChar = true;
        }

        private void pass_PB_MouseDown(object sender, MouseEventArgs e)
        {
            password textbox.UseSystemPasswordChar = false;
        }

        private void login btn_Click(object sender, EventArgs e)
        {
            if (ValidateChildren(ValidationConstraints.Enabled))
            {
                con.Open();
                cmd = new OleDbCommand("SELECT * FROM accounts WHERE
adminUsername = @username AND adminPass = @pass", con);
                cmd.Parameters.AddWithValue("@user", username textbox.Text);
                cmd.Parameters.AddWithValue("@pass", password textbox.Text);
                dr = cmd.ExecuteReader();
                if (dr.Read())
                {
                    MessageBox.Show("Login successful!", "WELCOME",
MessageBoxButtons.OK, MessageBoxIcon.Information);
                    this.Close();
                }
                else
                {
                    MessageBox.Show("Username or Password is incorrect!",
"MESSAGE", MessageBoxButtons.OK, MessageBoxIcon.Information);
                }
                con.Close();
            }
        }
    }
}

```

Figures 90-91. Code-Behind of Login.cs

```

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

namespace SMMHS__SMS
{
    public partial class OtherStudentInfo : Form
    {
        OleDbConnection con;
        OleDbCommand cmd;
        OleDbDataReader dr;
        DBConn = new DBConn();
        Grades z = new Grades();
        Grades z2 = new Grades();

        public OtherstudentInfo()
        {
            InitializeComponent();
            con = new OleDbConnection(db.getConn());
            menu_comboBox.SelectedIndex = -1;
        }

        private void exit_btn_Click(object sender, EventArgs e)
        {
            menu_comboBox.SelectedIndex = -1;
            this.Close();
        }

        //Showing grades and infos on Grades' datagrid
        private void menu_comboBox_SelectionChangeCommitted(object sender,
        EventArgs e)
        {
            if (ValidateChildren(ValidationConstraints.Enabled))
            {
                if (menu_comboBox.SelectedIndex == 0)
                [
                    z.RecordsDT.Rows.Clear();
                    con.Open();
                    cmd = new OleDbCommand("SELECT * FROM Grade7 WHERE LRN =
@LRN", con);
                    cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
                    dr = cmd.ExecuteReader();
                    while (dr.Read())
                    [
                        fillGrade();
                        z_grade_textbox.Text = "7";
                        addingSubjectandGrade();
                    ]
                    dr.Close();
                    con.Close();
                ]
                if (this.elemSchAdd_textbox.BorderStyle ==
BorderStyle.FixedSingle)
                [
                    z.enableBorderStyleTxtboxGrades();
                ]
                z.update_btn.Visible = true;
                z.clear_btn.Visible = true;
            ]
            else
            [
                z.disableBorderStyleTxtboxGrades();
                z.ReadOnlyControlsGrades();
                z.update_btn.Visible = false;
                z.clear_btn.Visible = false;
            ]
            menu_comboBox.SelectedIndex = 0;
            z.ShowDialog();
            this.Close();
        }

        else if (menu_comboBox.SelectedIndex == 1)
        [
            z.RecordsDT.Rows.Clear();
            con.Open();
            cmd = new OleDbCommand("SELECT * FROM Grade8 WHERE LRN =
@LRN", con);
            cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
            dr = cmd.ExecuteReader();
            while (dr.Read())
            [
                fillGrade();
                z_grade_textbox.Text = "8";
                addingSubjectandGrade();
            ]
            dr.Close();
            con.Close();
        ]
        if (this.elemSchAdd_textbox.BorderStyle ==
BorderStyle.FixedSingle)
        [
            z.enableBorderStyleTxtboxGrades();
        ]
        z.update_btn.Visible = true;
        z.clear_btn.Visible = true;
    }
    else if (menu_comboBox.SelectedIndex == 2)
    [
        z.RecordsDT.Rows.Clear();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade9 WHERE LRN =
@LRN", con);
        cmd.Parameters.AddWithValue("@LRN", lrn_textbox.Text);
        dr = cmd.ExecuteReader();
        while (dr.Read())
        [
            fillGrade();
            z_grade_textbox.Text = "9";
            addingSubjectandGrade();
        ]
        dr.Close();
        con.Close();
    ]
    if (this.elemSchAdd_textbox.BorderStyle ==
BorderStyle.FixedSingle)
    [
        z.enableBorderStyleTxtboxGrades();
    ]
    z.update_btn.Visible = true;
    z.clear_btn.Visible = true;
}

public void fillGrade()
{
    z.grade_textbox.Text = "9";
    addingSubjectandGrade();
}

public void addingSubjectandGrade()
{
    z.EnableControlsGrades();
    z.enableBorderStyleTxtboxGrades();
    z.update_btn.Visible = true;
    z.clear_btn.Visible = true;
}

public void drClose()
{
    dr.Close();
    con.Close();
}

public void zShowDialog()
{
    z.menu_comboBox.SelectedIndex = 2;
    z.ShowDialog();
    this.Close();
}

private void z_update_btn_Click(object sender, EventArgs e)
{
    z.RecordsDT.Rows.Add("Filipino", dr["FilipinoQ1"].ToString(),
dr["FilipinoQ2"].ToString(), dr["FilipinoRating"].ToString(),
dr["FilipinoRemarks"].ToString());
    z.RecordsDT.Rows.Add("English", dr["EnglishQ1"].ToString(),
dr["EnglishQ2"].ToString(), dr["EnglishRating"].ToString(),
dr["EnglishRemarks"].ToString());
    z.RecordsDT.Rows.Add("Mathematics", dr["MathematicsQ1"].ToString(),
dr["MathematicsQ2"].ToString(), dr["MathematicsQ3"].ToString(),
dr["MathematicsRating"].ToString());
    z.RecordsDT.Rows.Add("Science", dr["ScienceQ1"].ToString(),
dr["ScienceQ2"].ToString(), dr["ScienceQ3"].ToString(),
dr["ScienceRating"].ToString());
    z.RecordsDT.Rows.Add("Araling Panlipunan (AP)", dr["APQ1"].ToString(),
dr["APQ2"].ToString(), dr["APRating"].ToString(),
dr["APRemarks"].ToString());
    z.RecordsDT.Rows.Add("Technology and Livelihood Education (TLE)", dr["TLEQ1"].ToString(),
dr["TLEQ2"].ToString(), dr["TLERating"].ToString(),
dr["TLERemarks"].ToString());
    z.RecordsDT.Rows.Add("MATH", dr["MAPEHQ1"].ToString(),
dr["MAPEHQ2"].ToString(), dr["MAPEHQ3"].ToString(),
dr["MAPEHRating"].ToString());
    z.RecordsDT.Rows.Add("Music", dr["MusicQ1"].ToString(),
dr["MusicQ2"].ToString(), dr["MusicQ3"].ToString(),
dr["MusicRating"].ToString());
}

public void z_update_btn_Click_1(object sender, EventArgs e)
{
    z.RecordsDT.Rows.Add("Filipino", dr["FilipinoQ1"].ToString(),
dr["FilipinoQ2"].ToString(), dr["FilipinoRating"].ToString(),
dr["FilipinoRemarks"].ToString());
    z.RecordsDT.Rows.Add("English", dr["EnglishQ1"].ToString(),
dr["EnglishQ2"].ToString(), dr["EnglishRating"].ToString(),
dr["EnglishRemarks"].ToString());
    z.RecordsDT.Rows.Add("Mathematics", dr["MathematicsQ1"].ToString(),
dr["MathematicsQ2"].ToString(), dr["MathematicsQ3"].ToString(),
dr["MathematicsRating"].ToString());
    z.RecordsDT.Rows.Add("Science", dr["ScienceQ1"].ToString(),
dr["ScienceQ2"].ToString(), dr["ScienceQ3"].ToString(),
dr["ScienceRating"].ToString());
    z.RecordsDT.Rows.Add("Araling Panlipuna (AP)", dr["APQ1"].ToString(),
dr["APQ2"].ToString(), dr["APRating"].ToString(),
dr["APRemarks"].ToString());
    z.RecordsDT.Rows.Add("Technology and Livelihood Education (TLE)", dr["TLEQ1"].ToString(),
dr["TLEQ2"].ToString(), dr["TLERating"].ToString(),
dr["TLERemarks"].ToString());
    z.RecordsDT.Rows.Add("MATH", dr["MAPEHQ1"].ToString(),
dr["MAPEHQ2"].ToString(), dr["MAPEHQ3"].ToString(),
dr["MAPEHRating"].ToString());
    z.RecordsDT.Rows.Add("Music", dr["MusicQ1"].ToString(),
dr["MusicQ2"].ToString(), dr["MusicQ3"].ToString(),
dr["MusicRating"].ToString());
}
}

```

```

dr["MusicFRating"].ToString(), dr["MusicRemarks"].ToString());
z.recordsDt.Rows.Add("Arts", dr["ArtsQ3"].ToString(),
dr["ArtsQ2"].ToString(), dr["ArtsQ3"].ToString(), dr["ArtsQ4"].ToString(),
dr["ArtsRating"].ToString(), dr["ArtsRating"].ToString());
z.recordsDt.Rows.Add("Physical Education", Physical Education);
dr["PEQ1"].ToString(), dr["PEQ2"].ToString(), dr["PEQ3"].ToString(),
dr["PEQ4"].ToString(), dr["PEFRating"].ToString(), dr["PERemarks"].ToString());
dr["HealthQ1"].ToString(), dr["HealthQ2"].ToString(), dr["HealthQ3"].ToString(),
dr["HealthRating"].ToString(), dr["HealthRemarks"].ToString());
}
rendregion
//Update data on database
private void update btn_Click(object sender, EventArgs e)
{
    bool elemPass = elemPasser_checkbox.Checked == true ? true : false;
    bool peptPass = pept_checkbox.Checked == true ? true : false;
    bool alsPass = als_checkbox.Checked == true ? true : false;
    bool otherCmbx = others_checkbox.Checked == true ? true : false;

    if (ValidateChildren(ValidationConstraints.Enabled))
    {
        if (MessageBox.Show("Are you sure you want to save this record?", "MESSAGE", MessageBoxButtons.YesNo, MessageBoxIcon.Question) ==
        DialogResult.Yes)
        {
            cmd = new OleDbCommand("UPDATE OtherSTDInfo SET [LNR] =
@LNR, [GenAve] = @GenAve, [ElemcCompleter] = @ElemcCompleter, [Elemschool] =
@Elemschool, [ElemSchId] = @ElemSchId, [ElemSchAdd] = @ElemSchAdd, [Citation] =
@Citation, [PEPTPasser] = @PEPTPasser, [PEFRating] = @PEFRating, [ExamDate] =
@ExamDate, [PEFRatingCenterNameAdd] = @TestingCenterNameAdd, [Others] = @Others,
[Otherscheckbox] = @Otherscheckbox WHERE [LNR] = @LNR", con);
            cmd.Parameters.AddWithValue("@LNR", lnr_textbox.Text);
            cmd.Parameters.AddWithValue("@GenAve", elemA_textbox.Text);
            cmd.Parameters.AddWithValue("@ElemcCompleter", elemC_textbox.Text);
            cmd.Parameters.AddWithValue("@Elemschool", elemsch_textbox.Text);
            cmd.Parameters.AddWithValue("@ElemSchId", elemSchID_textbox.Text);
            cmd.Parameters.AddWithValue("@ElemSchAdd", elemSchAdd_textbox.Text);
            cmd.Parameters.AddWithValue("@Citation", citation1_textbox.Text);
            cmd.Parameters.AddWithValue("@PEPTPasser", peptPass);
            cmd.Parameters.AddWithValue("@PEFRating", peptRating_textbox.Text);
            cmd.Parameters.AddWithValue("@PEFRatingCenterNameAdd", examPlace_textbox.Text);
            cmd.Parameters.AddWithValue("@Others", others_textbox.Text);
            cmd.Parameters.AddWithValue("@Otherscheckbox", otherCmbx);
            cmd.Parameters.AddWithValue("@ExamDate", examDate_textbox.Text);
            cmd.Parameters.AddWithValue("@TestingCenterNameAdd", examPlace_textbox.Text);
            cmd.Close();
            MessageBox.Show("Student info has been successfully saved!", "MESSAGE", MessageBoxButtons.OK, MessageBoxIcon.Information);
        }
    }
}

//Validation
//region control validation
private void elemPasser_checkbox_Validating(object sender, CancelEventArgs e)
{
    if (elemPasser_checkbox.Checked == false)
    {
        e.Cancel = true;
        elemPasser_checkbox.Focus();
        errorProvider1.SetError(elemPasser_checkbox, "The student must be an Elementary Completer to proceed!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(elemPasser_checkbox, null);
    }
}
private void elemesch_textbox_Validating(object sender, CancelEventArgs e)
{
    if (elemesch_textbox.Text == "")
    {
        e.Cancel = true;
        elemesch_textbox.Focus();
        errorProvider1.SetError(elemesch_textbox, "This field is Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(elemesch_textbox, null);
    }
}
private void elemGA_textbox_Validating(object sender, CancelEventArgs e)
{
    if (elemGA_textbox.Text == "")
    {
        e.Cancel = true;
        elemGA_textbox.Focus();
        errorProvider1.SetError(elemGA_textbox, "This field is Required!");
    }
    else if (Convert.ToInt32(elemGA_textbox.Text) > 101 && Convert.ToInt32(elemGA_textbox.Text) <= 74)
    {
        e.Cancel = true;
        elemGA_textbox.Focus();
        errorProvider1.SetError(elemGA_textbox, "Please input the correct General Average.");
    }
    else if (Regex.IsMatch(elemGA_textbox.Text, @"^[-]?[0-9]*\.[0-9]{1}([',;,<>?])$"))
    {
        e.Cancel = true;
        elemGA_textbox.Focus();
        errorProvider1.SetError(elemGA_textbox, "This field only accepts numbers between 75 - 100.");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(elemGA_textbox, null);
    }
}
private void elemSchID_textbox_Validating(object sender, CancelEventArgs e)
{
    if (elemSchID_textbox.Text == "")
    {
        e.Cancel = true;
        elemSchID_textbox.Focus();
        errorProvider1.SetError(elemSchID_textbox, "This field is Required!");
    }
    else if (elemSchID_textbox.Text.Length < 6 && elemSchID_textbox.Text.Length >= 6)
    {
        e.Cancel = true;
        elemSchID_textbox.Focus();
        errorProvider1.SetError(elemSchID_textbox, "This field only accepts 6 digit number.");
    }
    else if (Regex.IsMatch(elemSchID_textbox.Text, @"^[-]?[0-9]*\.[0-9]{1}([',;,<>?])$") || (Regex.IsMatch(elemSchID_textbox.Text, @"^A - Za - z$")))
    {
        e.Cancel = true;
        elemSchID_textbox.Focus();
        errorProvider1.SetError(elemSchID_textbox, "This field only accepts numbers.");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(elemSchID_textbox, null);
    }
}
private void elemSchAdd_textbox_Validating(object sender, CancelEventArgs e)
{
    if (elemSchAdd_textbox.Text == "")
    {
        e.Cancel = true;
        elemSchAdd_textbox.Focus();
        errorProvider1.SetError(elemSchAdd_textbox, "This field is Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(elemSchAdd_textbox, null);
    }
}
private void peptRating_textbox_Validating(object sender, CancelEventArgs e)
{
    if (pept_checkbox.Checked == true && peptRating_textbox.Text == "")
    {
        e.Cancel = true;
        peptRating_textbox.Focus();
        errorProvider1.SetError(peptRating_textbox, "This field is Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(peptRating_textbox, null);
    }
}
private void als_rating_textbox_Validating(object sender, CancelEventArgs e)
{
    if (als_checkbox.Checked == true && als_rating_textbox.Text == "")
    {
        e.Cancel = true;
        als_rating_textbox.Focus();
        errorProvider1.SetError(als_rating_textbox, "This field is Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(als_rating_textbox, null);
    }
}
private void others_textbox_Validating(object sender, CancelEventArgs e)
{
    if (others_checkbox.Checked == true && others_textbox.Text == "")
    {
        e.Cancel = true;
        others_textbox.Focus();
        errorProvider1.SetError(others_textbox, "This field is Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(others_textbox, null);
    }
}
private void examDate_textbox_Validating(object sender, CancelEventArgs e)
{
    if ((pept_checkbox.Checked == true || als_checkbox.Checked == true) && examDate_textbox.Text == "")
    {
        e.Cancel = true;
        examDate_textbox.Focus();
        errorProvider1.SetError(examDate_textbox, "This field is Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(examDate_textbox, null);
    }
}
private void examPlace_textbox_Validating(object sender, CancelEventArgs e)
{
    if ((pept_checkbox.Checked == true || als_checkbox.Checked == true) && examPlace_textbox.Text == "")
    {
        e.Cancel = true;
        examPlace_textbox.Focus();
        errorProvider1.SetError(examPlace_textbox, "This field is Required!");
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(examPlace_textbox, null);
    }
}

```

```

examPlace.textBox.Focus();
errorProvider1.SetError(examPlace.textBox, "This field is
Required!");
}
else
{
    e.Cancel = false;
}
errorProvider1.SetError(examPlace.textBox, null);
}
#endregion
}
}

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;
using System.Data.OleDb;
using System.Reflection;
using System.Runtime.InteropServices;
using Microsoft.Office.Interop.Excel;
using System.Threading;
using System;

namespace SMMS_SMS
{
    public partial class SF10JHS : Form
    {
        OleDbConnection conn;
        OleDbDataReader dr;
        DBConn db = new DBConn();
        public string lrn;
        OtherStudentInfo h = new OtherStudentInfo();

        public SF10JHS()
        {
            InitializeComponent();
            con = new OleDbConnection(db.getConn());
            LoadStudents();
            hideSortCmbx();
        }

        public void LoadStudents()
        {
            sf10JHS_DT.Rows.Clear();
            int r = 0;
            cmd.Open();
            cmd = new OleDbCommand("SELECT * FROM Students WHERE Status =
'Active' AND (GradeLevel = '7' OR GradeLevel = '8' OR GradeLevel = '9' OR
GradeLevel = '10')", con);
            dr = cmd.ExecuteReader();
            while (dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
dr["NameExtN"].ToString();
                sf10JHS_DT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
dr["FirstName"].ToString(), dr["MiddleName"].ToString(), dr["Status"].ToString(),
dr["Gender"].ToString(), dr["GradeLevel"].ToString(), dr["Year"].ToString(),
"Update", "View", "Export", dr["Address"].ToString(),
dr["BirthDate"].ToString(), dr["NameExtN"].ToString());
            }
            dr.Close();
            con.Close();
        }

        private void refresh_btn_Click(object sender, EventArgs e)
        {
            search.textBox.Visible = true;
            LoadStudents();
        }

        private void search_TextChanged(object sender, EventArgs e)
        {
            sf10JHS_DT.Rows.Clear();
            string query = search.textBox.Text;
            cmd = new OleDbCommand("SELECT * FROM Students WHERE (GradeLevel
= '7' OR GradeLevel = '8' OR GradeLevel = '9' OR GradeLevel = '10') AND
(FirstName like '%" + query + "%' OR LRN like '%" + query + "%' OR LastName like
'" + query + "%')", con);
            cmd.Parameters.AddWithValue("@query", query);
            dr = cmd.ExecuteReader();
            while (dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
dr["NameExtN"].ToString();
                sf10JHS_DT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
dr["FirstName"].ToString(), dr["MiddleName"].ToString(), dr["Status"].ToString(),
dr["Gender"].ToString(), dr["GradeLevel"].ToString(), dr["Year"].ToString(),
"Update", "View", "Export", dr["Address"].ToString(),
dr["BirthDate"].ToString(), dr["NameExtN"].ToString());
            }
            dr.Close();
            con.Close();
        }

        public void hideSortCmbx()
        {
            for (int i = 0; i <= 300; i++)
                Thread.Sleep(3);
        }

        //Search and Filtering Students
        #region search and filter
        public void SearchStudents()
        {
            if (search.textBox.Text == "")
            {
                LoadStudents();
            }
            else
            {
                sf10JHS_DT.Rows.Clear();
                int r = 0;
                string query = search.textBox.Text;
                cmd = new OleDbCommand("SELECT * FROM Students WHERE (GradeLevel
= '7' OR GradeLevel = '8' OR GradeLevel = '9' OR GradeLevel = '10') AND
(FirstName like '%" + query + "%' OR LRN like '%" + query + "%' OR LastName like
'" + query + "%')", con);
                cmd.Parameters.AddWithValue("@query", query);
                dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    string last_ext = dr["LastName"].ToString() + ' ' +
dr["NameExtN"].ToString();
                    sf10JHS_DT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
dr["FirstName"].ToString(), dr["MiddleName"].ToString(), dr["Status"].ToString(),
dr["Gender"].ToString(), dr["GradeLevel"].ToString(), dr["Year"].ToString(),
"Update", "View", "Export", dr["Address"].ToString(),
dr["BirthDate"].ToString(), dr["NameExtN"].ToString());
                }
                dr.Close();
                con.Close();
            }
        }

        public void hideSortCmbx()
        {
            gradeSort_cmbx.Visible = false;
            sort_cmbx.ResetText();
            gradeSort_cmbx.ResetText();
            statusSort_cmbx.Visible = false;
            statusSort_cmbx.ResetText();
            search.textBox.Text = "";
        }

        private void sortcmbx()
        {
            if (sort_cmbx.SelectedIndex == 0)
            {
                gradeSort_cmbx.Visible = true;
                statusSort_cmbx.Visible = false;
                search.textBox.Visible = false;
            }
            else if (sort_cmbx.SelectedIndex == 1)
            {
                gradeSort_cmbx.Visible = false;
                statusSort_cmbx.Visible = true;
                search.textBox.Visible = true;
            }
        }
    }
}

```

*Figures 92-100. Code-Behind of
OtherStudentInfo.cs*

```

        {
            statusSort_cmbx.Visible = true;
            gradeSort_cmbx.Visible = false;
            search_txbox.Visible = false;
        }
        else if (sort_cmbx.SelectedIndex == 2)
        {
            search_txbox.Visible = true;
            AllStudents();
        }
        else if (sort_cmbx.SelectedIndex == 3)
        {
            search_txbox.Visible = true;
            CurrentSHSSStudents();
        }
    }
    public void statusSort()
    {
        sf10JHS_DT.Rows.Clear();
        int r = 0;
        string query = statusSort_cmbx.SelectedItem.ToString();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Students WHERE Status like '%" + query + "%' AND GradeLevel = '7' OR GradeLevel = '8' OR GradeLevel = '9' OR GradeLevel = '10'", con);
        cmd.Parameters.AddWithValue("@query", query);
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            string last_ext = dr["LastName"].ToString() + ' ' +
                dr["NameExtn"].ToString();
            r++;
            sf10JHS_DT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
                dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                dr["Gender"].ToString(), dr["GradeLevel"].ToString(), dr["Status"].ToString(),
                dr["Year"].ToString(), "Update", "View", "Export", dr["Address"].ToString(),
                dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
        }
        dr.Close();
        con.Close();
    }
    public void AllStudents()
    {
        sf10JHS_DT.Rows.Clear();
        int r = 0;
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Students WHERE GradeLevel =
            '7' OR GradeLevel = '8' OR GradeLevel = '9' OR GradeLevel = '10'", con);
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            string last_ext = dr["LastName"].ToString() + ' ' +
                dr["NameExtn"].ToString();
            r++;
            sf10JHS_DT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
                dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                dr["Gender"].ToString(), dr["GradeLevel"].ToString(), dr["Status"].ToString(),
                dr["Year"].ToString(), "Update", "View", "Export", dr["Address"].ToString(),
                dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
        }
        dr.Close();
        con.Close();
    }
}

}
public void CurrentSHSSStudents()
{
    sf10JHS_DT.Rows.Clear();
    int r = 0;
    con.Open();
    cmd = new OleDbCommand("SELECT * FROM Students WHERE GradeLevel =
        '11 - TVL' OR GradeLevel = '11 - GAS' OR GradeLevel = '12 - TVL' OR GradeLevel =
        '12 - GAS'", con);
    dr = cmd.ExecuteReader();
    while (dr.Read())
    {
        string last_ext = dr["LastName"].ToString() + ' ' +
            dr["NameExtn"].ToString();
        sf10JHS_DT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
            dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
            dr["Gender"].ToString(), dr["GradeLevel"].ToString(), dr["Status"].ToString(),
            dr["Year"].ToString(), "Update", "View", "Export", dr["Address"].ToString(),
            dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
    }
    dr.Close();
    con.Close();
}
public void gradeSort()
{
    sf10JHS_DT.Rows.Clear();
    int r = 0;
    string query = gradeSort_cmbx.SelectedItem.ToString();
    con.Open();
    cmd = new OleDbCommand("SELECT * FROM Students WHERE GradeLevel like
        '%" + query + "%' AND Status like 'Active' AND (GradeLevel = '7' OR GradeLevel =
        '8' OR GradeLevel = '9' OR GradeLevel = '10')", con);
    cmd.Parameters.AddWithValue("@query", query);
    dr = cmd.ExecuteReader();
    while (dr.Read())
    {
        string last_ext = dr["LastName"].ToString() + ' ' +
            dr["NameExtn"].ToString();
        sf10JHS_DT.Rows.Add(r, dr["LRN"].ToString(), last_ext,
            dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
            dr["Gender"].ToString(), dr["GradeLevel"].ToString(), dr["Status"].ToString(),
            dr["Year"].ToString(), "Update", "View", "Export", dr["Address"].ToString(),
            dr["BirthDate"].ToString(), dr["NameExtn"].ToString());
    }
    dr.Close();
    con.Close();
}
private void sort_cmbx_SelectedIndexChanged(object sender, EventArgs e)
{
    hideSortCmbx();
    sortCmbx();
}
private void statusSort_cmbx_SelectedIndexChanged(object sender,
    EventArgs e)
{
    statusSort();
}
private void gradeSort_cmbx_SelectedIndexChanged(object sender,
    EventArgs e)
{
    gradeSort();
}

}
private void gradeSort()
{
    sf10JHS_DT.Columns[e.ColumnIndex].Name =
        "gradeSort";
}
private void search_txbox_TextChanged(object sender, EventArgs e)
{
    SearchStudents();
}
private void sf10JHS_DT_CellContentClick(object sender,
    DataGridViewCellEventArgs e)
{
    string colName = sf10JHS_DT.Columns[e.ColumnIndex].Name;
    lrn = sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
    if (colName == "View")
    {
        h_menu_comboBox.SelectedIndex = -1;
        h_menu_comboBox.Text = "Menu";
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM OtherStdInfo WHERE LRN =
            @LRN", con);
        cmd.Parameters.AddWithValue("@LRN", lrn);
        sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            h_lrn_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
            h_lname_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[2].Value.ToString();
            h_fname_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[3].Value.ToString();
            h_nameTxbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[4].Value.ToString();
            h_mname_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[5].Value.ToString();
            h_bdate_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString();
            h_sex_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[7].Value.ToString();
            fillOtherSTDForm();
            h_update_btn.Visible = false;
        }
        dr.Close();
        con.Close();
        ReadOnlyControlsOtherSTD();
        disableBorderStyleTxtbox();
        h.ShowDialog();
    }
    else if (colName == "Update")
    {
        h_menu_comboBox.SelectedIndex = -1;
        h_menu_comboBox.Text = "Menu";
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM OtherStdInfo WHERE LRN =
            @LRN", con);
        cmd.Parameters.AddWithValue("@LRN", lrn);
        sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            h_lrn_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
            h_lname_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[2].Value.ToString();
            h_fname_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[3].Value.ToString();
            h_nameTxbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[4].Value.ToString();
            h_mname_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[5].Value.ToString();
            h_bdate_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString();
            h_sex_txbox.Text =
                sf10JHS_DT.Rows[e.RowIndex].Cells[7].Value.ToString();
            fillOtherSTDForm();
            h.update_btn.Visible = true;
        }
        dr.Close();
        con.Close();
        EnableControlsOtherSTD();
        enableBorderStyleTxtbox();
        h.ShowDialog();
    }
    else if (colName == "Export")
    {
        object oMissing = Missing.Value;
        Microsoft.Office.Interop.Excel.Application ExcelObj = new
            Microsoft.Office.Interop.Excel.Application();
        Microsoft.Office.Interop.Excel.Workbook wBook;
        Microsoft.Office.Interop.Excel.Worksheet wSheet;
        string SF10JMS =
            Path.Combine(System.Windows.Forms.Application.StartupPath, "Resources", "School
            Form 10 SF10 Learner's Permanent Academic Record for Junior High
            School_3.xlsx");
        wBook = ExcelObj.Workbooks.Open(SF10JMS,
            oMissing, oMissing, oMissing, oMissing, oMissing,
            oMissing, oMissing, oMissing);
        //open the existing sheet
        wSheet =
            (Microsoft.Office.Interop.Excel.Worksheet)wBook.Sheets.get_Item(1);
        using (waltForm wfrm = new waltForm(SaveData))
        {
            wfrm.ShowDialog(this);
        }
        //add some data to Learner's Info
        ExcelObj.Sheets.get_Item(1).TextBoxes("lnameBox").Text =
            sf10JHS_DT.Rows[e.RowIndex].Cells[2].Value.ToString();
        ExcelObj.Sheets.get_Item(1).TextBoxes("fnameBox").Text =
            sf10JHS_DT.Rows[e.RowIndex].Cells[3].Value.ToString();
        ExcelObj.Sheets.get_Item(1).TextBoxes("mnameBox").Text =
            sf10JHS_DT.Rows[e.RowIndex].Cells[4].Value.ToString();
        ExcelObj.Sheets.get_Item(1).TextBoxes("nameBox").Text =
            sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
        ExcelObj.Sheets.get_Item(1).TextBoxes("lrbx").Text =
            sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
        ExcelObj.Sheets.get_Item(1).TextBoxes("bdateBox").Text =
            sf10JHS_DT.Rows[e.RowIndex].Cells[13].Value.ToString();
        ExcelObj.Sheets.get_Item(1).TextBoxes("sexBox").Text =
            sf10JHS_DT.Rows[e.RowIndex].Cells[5].Value.ToString();
    }
}

```

```

//Eligibility for JHS Enrolment
con.Open();
cmd = new OleDbCommand("SELECT * FROM OtherStdInfo WHERE LRN = @LRN", con);
cmd.Parameters.AddWithValue("@LRN", sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
dr = cmd.ExecuteReader();
while (dr.Read())
{
    ExcelObj.Sheets.get_Item(1).TextBoxes("elemGABox").Text =
dr["GenAve"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("citationBox").Text =
dr["Citation"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("elemSchBox").Text =
dr["ElemSchoolID"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("schIDBox").Text =
dr["ElemSchID"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("schAddBox").Text =
dr["ElemSchAddID"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("peptRatingBox").Text =
dr["PEPTRating"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("alsRatingBox").Text =
dr["ALS_AERating"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("otherRatingBox").Text =
dr["Others"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("examDateBox").Text =
dr["ExamDate"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("examAddBox").Text =
dr["TestingcenterNameAddID"].ToString();
}
dr.Close();
con.Close();

//region exporting values to excel
//Grade 7 Grades
con.Open();
cmd = new OleDbCommand($"SELECT * FROM Grade7 WHERE LRN = @LRN", con);
cmd.Parameters.AddWithValue("@LRN", sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
while (dr.Read())
{
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7SchBox").Text =
dr["SchoolID"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7SchIDBox").Text =
dr["SchoolID"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7DistrictBox").Text =
dr["District"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7DivisionBox").Text =
dr["Division"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7RegionBox").Text =
dr["Region"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7GradeBox").Text =
"7";
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7SectionBox").Text =
dr["Section"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7SchoolYearBox").Text =
dr["SchoolYear"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g7AdvisorBox").Text =
dr["AdviserName"].ToString();
}

WSheet.Cells[25, 7] = dr["FilipinoQ1"].ToString();
WSheet.Cells[25, 8] = dr["FilipinoQ2"].ToString();

WSheet.Cells[26, 9] = dr["FilipinoQ3"].ToString();
WSheet.Cells[26, 10] = dr["FilipinoQ4"].ToString();
WSheet.Cells[26, 11] = dr["FilipinoRemarks"].ToString();
WSheet.Cells[26, 12] = dr["FilipinoRating"].ToString();

WSheet.Cells[27, 7] = dr["EnglishQ1"].ToString();
WSheet.Cells[27, 8] = dr["EnglishQ2"].ToString();
WSheet.Cells[27, 9] = dr["EnglishQ3"].ToString();
WSheet.Cells[27, 10] = dr["EnglishQ4"].ToString();
WSheet.Cells[27, 11] = dr["EnglishRating"].ToString();
WSheet.Cells[27, 12] = dr["EnglishRemarks"].ToString();

WSheet.Cells[28, 9] = dr["MathematicsQ1"].ToString();
WSheet.Cells[28, 10] = dr["MathematicsQ2"].ToString();
WSheet.Cells[28, 11] = dr["MathematicsQ3"].ToString();
WSheet.Cells[28, 12] = dr["MathematicsQ4"].ToString();
WSheet.Cells[28, 13] = dr["MathematicsRating"].ToString();
WSheet.Cells[28, 14] = dr["MathematicsRemarks"].ToString();

WSheet.Cells[29, 9] = dr["MathematicsQ3"].ToString();
WSheet.Cells[29, 10] = dr["MathematicsQ4"].ToString();
WSheet.Cells[29, 11] = dr["MathematicsRating"].ToString();
WSheet.Cells[29, 12] = dr["MathematicsRemarks"].ToString();

WSheet.Cells[30, 9] = dr["ScienceQ1"].ToString();
WSheet.Cells[30, 10] = dr["ScienceQ2"].ToString();
WSheet.Cells[30, 11] = dr["ScienceQ3"].ToString();
WSheet.Cells[30, 12] = dr["ScienceQ4"].ToString();
WSheet.Cells[30, 13] = dr["ScienceRating"].ToString();
WSheet.Cells[30, 14] = dr["ScienceRemarks"].ToString();

WSheet.Cells[31, 9] = dr["APQ1"].ToString();
WSheet.Cells[31, 10] = dr["APQ2"].ToString();
WSheet.Cells[31, 11] = dr["APQ3"].ToString();
WSheet.Cells[31, 12] = dr["APQ4"].ToString();
WSheet.Cells[31, 13] = dr["APRating"].ToString();
WSheet.Cells[31, 14] = dr["ARemarks"].ToString();

WSheet.Cells[32, 7] = dr["TLEQ1"].ToString();
WSheet.Cells[32, 8] = dr["TLEQ2"].ToString();
WSheet.Cells[32, 9] = dr["TLEQ3"].ToString();
WSheet.Cells[32, 10] = dr["TLEQ4"].ToString();
WSheet.Cells[32, 11] = dr["TLERemarks"].ToString();
WSheet.Cells[32, 12] = dr["TLERating"].ToString();

WSheet.Cells[33, 7] = dr["MAPEHQ1"].ToString();
WSheet.Cells[33, 8] = dr["MAPEHQ2"].ToString();
WSheet.Cells[33, 9] = dr["MAPEHQ3"].ToString();
WSheet.Cells[33, 10] = dr["MAPEHQ4"].ToString();
WSheet.Cells[33, 11] = dr["MAPEHRating"].ToString();
WSheet.Cells[33, 12] = dr["MAPEHRemarks"].ToString();

WSheet.Cells[34, 8] = dr["ArtsQ3"].ToString();
WSheet.Cells[34, 9] = dr["ArtsQ4"].ToString();
WSheet.Cells[34, 10] = dr["ArtsRemarks"].ToString();
WSheet.Cells[34, 11] = dr["ArtsRating"].ToString();

WSheet.Cells[35, 7] = dr["PEQ1"].ToString();
WSheet.Cells[35, 8] = dr["PEQ2"].ToString();
WSheet.Cells[35, 9] = dr["PEQ3"].ToString();
WSheet.Cells[35, 10] = dr["PEQ4"].ToString();
WSheet.Cells[35, 11] = dr["PERating"].ToString();
WSheet.Cells[35, 12] = dr["PERemarks"].ToString();

WSheet.Cells[36, 7] = dr["HealthQ1"].ToString();
WSheet.Cells[36, 8] = dr["HealthQ2"].ToString();
WSheet.Cells[36, 9] = dr["HealthQ3"].ToString();
WSheet.Cells[36, 10] = dr["HealthQ4"].ToString();
WSheet.Cells[36, 11] = dr["HealthRating"].ToString();
WSheet.Cells[36, 12] = dr["HealthRemarks"].ToString();

WSheet.Cells[39, 11] = dr["GeneralAveR"].ToString();
WSheet.Cells[39, 12] = dr["GeneralAveRemarks"].ToString();

}
dr.Close();
con.Close();

//Grade 8 Grades
con.Open();
cmd = new OleDbCommand($"SELECT * FROM Grade8 WHERE LRN = @LRN", con);
cmd.Parameters.AddWithValue("@LRN", sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
dr = cmd.ExecuteReader();
while (dr.Read())
{
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8SchBox").Text =
dr["SchoolID"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8SchIDBox").Text =
dr["SchoolID"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8DistrictBox").Text =
dr["District"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8DivisionBox").Text =
dr["Division"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8RegionBox").Text =
dr["Region"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8GradeBox").Text =
"8";
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8SectionBox").Text =
dr["Section"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8SchoolYearBox").Text =
dr["SchoolYear"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8SchYearBox").Text =
dr["SchoolYear"].ToString();
    ExcelObj.Sheets.get_Item(1).TextBoxes("g8AdvisorBox").Text =
dr["AdviserName"].ToString();

    WSheet.Cells[51, 7] = dr["FilipinoQ1"].ToString();
    WSheet.Cells[51, 8] = dr["FilipinoQ2"].ToString();
    WSheet.Cells[51, 9] = dr["FilipinoQ3"].ToString();
    WSheet.Cells[51, 10] = dr["FilipinoQ4"].ToString();
    WSheet.Cells[51, 11] = dr["FilipinoRating"].ToString();
    WSheet.Cells[51, 12] = dr["FilipinoRemarks"].ToString();

    WSheet.Cells[52, 7] = dr["EnglishQ1"].ToString();
    WSheet.Cells[52, 8] = dr["EnglishQ2"].ToString();
    WSheet.Cells[52, 9] = dr["EnglishQ3"].ToString();
    WSheet.Cells[52, 10] = dr["EnglishQ4"].ToString();
    WSheet.Cells[52, 11] = dr["EnglishRating"].ToString();
    WSheet.Cells[52, 12] = dr["EnglishRemarks"].ToString();

    WSheet.Cells[53, 7] = dr["MathematicsQ1"].ToString();
    WSheet.Cells[53, 8] = dr["MathematicsQ2"].ToString();
    WSheet.Cells[53, 9] = dr["MathematicsQ3"].ToString();
    WSheet.Cells[53, 10] = dr["MathematicsQ4"].ToString();
    WSheet.Cells[53, 11] = dr["MathematicsRating"].ToString();
    WSheet.Cells[53, 12] = dr["MathematicsRemarks"].ToString();

    WSheet.Cells[54, 7] = dr["ScienceQ1"].ToString();
    WSheet.Cells[54, 8] = dr["ScienceQ2"].ToString();
    WSheet.Cells[54, 9] = dr["ScienceQ3"].ToString();
    WSheet.Cells[54, 10] = dr["ScienceQ4"].ToString();
    WSheet.Cells[54, 11] = dr["ScienceRating"].ToString();
    WSheet.Cells[54, 12] = dr["ScienceRemarks"].ToString();

    WSheet.Cells[55, 7] = dr["APQ1"].ToString();
    WSheet.Cells[55, 8] = dr["APQ2"].ToString();
    WSheet.Cells[55, 9] = dr["APQ3"].ToString();
    WSheet.Cells[55, 10] = dr["APQ4"].ToString();
    WSheet.Cells[55, 11] = dr["APRating"].ToString();
    WSheet.Cells[55, 12] = dr["AMemarks"].ToString();

    WSheet.Cells[56, 7] = dr["ESPQ1"].ToString();
    WSheet.Cells[56, 8] = dr["ESPQ2"].ToString();
    WSheet.Cells[56, 9] = dr["ESPQ3"].ToString();
    WSheet.Cells[56, 10] = dr["ESPQ4"].ToString();
    WSheet.Cells[56, 11] = dr["ESPRating"].ToString();
    WSheet.Cells[56, 12] = dr["ESPRemarks"].ToString();

    WSheet.Cells[57, 7] = dr["TLEQ1"].ToString();
    WSheet.Cells[57, 8] = dr["TLEQ2"].ToString();
    WSheet.Cells[57, 9] = dr["TLEQ3"].ToString();
    WSheet.Cells[57, 10] = dr["TLEQ4"].ToString();
    WSheet.Cells[57, 11] = dr["TLERating"].ToString();
    WSheet.Cells[57, 12] = dr["TLERemarks"].ToString();

    WSheet.Cells[58, 7] = dr["MAPEHQ1"].ToString();
    WSheet.Cells[58, 8] = dr["MAPEHQ2"].ToString();
    WSheet.Cells[58, 9] = dr["MAPEHQ3"].ToString();
    WSheet.Cells[58, 10] = dr["MAPEHQ4"].ToString();
    WSheet.Cells[58, 11] = dr["MAPEHRating"].ToString();
    WSheet.Cells[58, 12] = dr["MAPEHRemarks"].ToString();

    WSheet.Cells[59, 8] = dr["MusicQ1"].ToString();
    WSheet.Cells[59, 9] = dr["MusicQ2"].ToString();
    WSheet.Cells[59, 10] = dr["MusicQ3"].ToString();
    WSheet.Cells[59, 11] = dr["MusicQ4"].ToString();
    WSheet.Cells[59, 12] = dr["MusicRating"].ToString();
    WSheet.Cells[59, 13] = dr["MusicRemarks"].ToString();

    WSheet.Cells[60, 7] = dr["ArtsQ1"].ToString();
    WSheet.Cells[60, 8] = dr["ArtsQ2"].ToString();
    WSheet.Cells[60, 9] = dr["ArtsQ3"].ToString();
    WSheet.Cells[60, 10] = dr["ArtsQ4"].ToString();
    WSheet.Cells[60, 11] = dr["ArtsRating"].ToString();
    WSheet.Cells[60, 12] = dr["ArtsRemarks"].ToString();

    WSheet.Cells[61, 7] = dr["PEQ1"].ToString();
    WSheet.Cells[61, 8] = dr["PEQ2"].ToString();
    WSheet.Cells[61, 9] = dr["PEQ3"].ToString();
    WSheet.Cells[61, 10] = dr["PEQ4"].ToString();
    WSheet.Cells[61, 11] = dr["PERating"].ToString();
    WSheet.Cells[61, 12] = dr["PERemarks"].ToString();

    WSheet.Cells[62, 9] = dr["HealthQ3"].ToString();
    WSheet.Cells[62, 10] = dr["HealthQ4"].ToString();
    WSheet.Cells[62, 11] = dr["HealthRating"].ToString();
    WSheet.Cells[62, 12] = dr["HealthRemarks"].ToString();

    WSheet.Cells[63, 11] = dr["GeneralAveR"].ToString();
    WSheet.Cells[63, 12] = dr["GeneralAveRemarks"].ToString();

}
dr.Close();
con.Close();

//Grade9
con.Open();
cmd = new OleDbCommand($"SELECT * FROM Grade9 WHERE LRN = @LRN", con);
cmd.Parameters.AddWithValue("@LRN", sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
dr = cmd.ExecuteReader();
while (dr.Read())
{
    ExcelObj.Sheets.get_Item(1).TextBoxes("g9SchBox").Text =

```

```

dr["School"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g9SchIDBox").Text =
dr["SchoolID"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g9DistrictBox").Text =
dr["District"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g9DivisionBox").Text =
dr["Division"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g9RegionBox").Text =
dr["Region"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g9GradeBox").Text =
"";
    ExcelObj.Sheets.get_Item(2).TextBoxes("g9SectionBox").Text =
dr["Section"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g9SchYearBox").Text =
dr["SchoolYear"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g9AdviserBox").Text =
dr["AdviserName"].ToString();

    WBook.Sheets.get_Item(2).Cells[8, 6] =
dr["FilipinoQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[8, 7] =
dr["FilipinoQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[8, 8] =
dr["FilipinoQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[8, 9] =
dr["FilipinoQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[8, 10] =
dr["FilipinoFRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[8, 11] =
dr["FilipinoRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[9, 6] =
dr["EnglishQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[9, 7] =
dr["EnglishQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[9, 8] =
dr["EnglishQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[9, 9] =
dr["EnglishQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[9, 10] =
dr["EnglishRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[9, 11] =
dr["EnglishRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[10, 6] =
dr["MathematicsQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[10, 7] =
dr["MathematicsQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[10, 8] =
dr["MathematicsQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[10, 9] =
dr["MathematicsQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[10, 10] =
dr["MathematicsRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[10, 11] =
dr["MathematicsRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[11, 6] =
dr["ScienceQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[11, 7] =
dr["ScienceQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[11, 8] =
dr["ScienceQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[11, 9] =
dr["ScienceQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[11, 10] =
dr["ScienceFRating"].ToString();

    WBook.Sheets.get_Item(2).Cells[17, 7] =
dr["ArtsQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[17, 8] =
dr["ArtsQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[17, 9] =
dr["ArtsQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[17, 10] =
dr["ArtsRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[17, 11] =
dr["ArtsRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[18, 6] =
dr["PEQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[18, 7] =
dr["PEQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[18, 8] =
dr["PEQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[18, 9] =
dr["PEQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[18, 10] =
dr["PERating"].ToString();
    WBook.Sheets.get_Item(2).Cells[18, 11] =
dr["PERemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[19, 6] =
dr["HealthQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[19, 7] =
dr["HealthQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[19, 8] =
dr["HealthQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[19, 9] =
dr["HealthQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[19, 10] =
dr["HealthRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[19, 11] =
dr["HealthRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[21, 10] =
dr["GeneralAveFR"].ToString();
    WBook.Sheets.get_Item(2).Cells[21, 11] =
dr["GeneralAveRemarks"].ToString();
}

dr.Close();
con.Close();

//Grade10
con.Open();
cmd = new OleDbCommand($"SELECT * FROM Grade10 WHERE LRN = {LRN}", con);
cmd.Parameters.AddWithValue("LRN", sf10JHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
dr = cmd.ExecuteReader();
while (dr.Read())
{
    ExcelObj.Sheets.get_Item(2).TextBoxes("g10SchBox").Text =
dr["School"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g10SchIDBox").Text =
dr["SchoolID"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g10DistrictBox").Text =
dr["District"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g10DivisionBox").Text =
dr["Division"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g10RegionBox").Text =
dr["Region"].ToString();
    ExcelObj.Sheets.get_Item(2).TextBoxes("g10GradeBox").Text =
"10";
    ExcelObj.Sheets.get_Item(2).TextBoxes("g10SectionBox").Text
}

```

```

    WBook.Sheets.get_Item(2).Cells[11, 11] =
dr["ScienceRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[12, 6] =
dr["APQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[12, 7] =
dr["APQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[12, 8] =
dr["APQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[12, 9] =
dr["APQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[12, 10] =
dr["APFRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[12, 11] =
dr["APRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[13, 6] =
dr["ESPQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[13, 7] =
dr["ESPQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[13, 8] =
dr["ESPQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[13, 9] =
dr["ESPQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[13, 10] =
dr["ESPFRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[13, 11] =
dr["ESPRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[14, 6] =
dr["TLEQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[14, 7] =
dr["TLEQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[14, 8] =
dr["TLEQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[14, 9] =
dr["TLEQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[14, 10] =
dr["TLEERating"].ToString();
    WBook.Sheets.get_Item(2).Cells[14, 11] =
dr["TLERemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[15, 6] =
dr["MAPEHQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[15, 7] =
dr["MAPEHQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[15, 8] =
dr["MAPEHQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[15, 9] =
dr["MAPEHQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[15, 10] =
dr["MAPEHFRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[15, 11] =
dr["MAPEHRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[16, 6] =
dr["MusicQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[16, 7] =
dr["MusicQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[16, 8] =
dr["MusicQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[16, 9] =
dr["MusicQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[16, 10] =
dr["MusicFRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[16, 11] =
dr["MusicRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[17, 6] =
dr["ArtsQ1"].ToString();

    WBook.Sheets.get_Item(2).Cells[32, 6] =
dr["Section"].ToString();
    WBook.Sheets.get_Item(2).Cells[32, 7] =
dr["SchoolYear"].ToString();
    WBook.Sheets.get_Item(2).Cells[32, 8] =
dr["AdviserName"].ToString();

    WBook.Sheets.get_Item(2).Cells[32, 9] =
dr["FilipinoQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[32, 10] =
dr["FilipinoQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[32, 11] =
dr["FilipinoQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[32, 12] =
dr["FilipinoQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[33, 6] =
dr["EnglishQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[33, 7] =
dr["EnglishQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[33, 8] =
dr["EnglishQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[33, 9] =
dr["EnglishQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[33, 10] =
dr["EnglishRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[33, 11] =
dr["EnglishRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[34, 6] =
dr["MathematicsQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[34, 7] =
dr["MathematicsQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[34, 8] =
dr["MathematicsQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[34, 9] =
dr["MathematicsQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[34, 10] =
dr["MathematicsRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[34, 11] =
dr["MathematicsRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[35, 6] =
dr["ScienceQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[35, 7] =
dr["ScienceQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[35, 8] =
dr["ScienceQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[35, 9] =
dr["ScienceQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[35, 10] =
dr["ScienceFRating"].ToString();
    WBook.Sheets.get_Item(2).Cells[35, 11] =
dr["ScienceRemarks"].ToString();
    WBook.Sheets.get_Item(2).Cells[36, 6] =
dr["APQ1"].ToString();
    WBook.Sheets.get_Item(2).Cells[36, 7] =
dr["APQ2"].ToString();
    WBook.Sheets.get_Item(2).Cells[36, 8] =
dr["APQ3"].ToString();
    WBook.Sheets.get_Item(2).Cells[36, 9] =
dr["APQ4"].ToString();
    WBook.Sheets.get_Item(2).Cells[36, 10] =
dr["APFRating"].ToString();

```

```

        WBook.Sheets.get_Item(2).Cells[36, 11] =
dr["APRemarks"].ToString();
        WBook.Sheets.get_Item(2).Cells[37, 6] =
dr["ESPQ1"].ToString();
        WBook.Sheets.get_Item(2).Cells[37, 7] =
dr["ESPQ2"].ToString();
        WBook.Sheets.get_Item(2).Cells[37, 8] =
dr["ESPQ3"].ToString();
        WBook.Sheets.get_Item(2).Cells[37, 9] =
dr["ESPQ4"].ToString();
        WBook.Sheets.get_Item(2).Cells[37, 10] =
dr["ESPPRating"].ToString();
        WBook.Sheets.get_Item(2).Cells[37, 11] =
dr["ESPRemarks"].ToString();
        WBook.Sheets.get_Item(2).Cells[38, 6] =
dr["TLEQ1"].ToString();
        WBook.Sheets.get_Item(2).Cells[38, 7] =
dr["TLEQ2"].ToString();
        WBook.Sheets.get_Item(2).Cells[38, 8] =
dr["TLEQ3"].ToString();
        WBook.Sheets.get_Item(2).Cells[38, 9] =
dr["TLEQ4"].ToString();
        WBook.Sheets.get_Item(2).Cells[38, 10] =
dr["TLEFRating"].ToString();
        WBook.Sheets.get_Item(2).Cells[38, 11] =
dr["TLERemarks"].ToString();
        WBook.Sheets.get_Item(2).Cells[39, 6] =
dr["MAPEHQ1"].ToString();
        WBook.Sheets.get_Item(2).Cells[39, 7] =
dr["MAPEHQ2"].ToString();
        WBook.Sheets.get_Item(2).Cells[39, 8] =
dr["MAPEHQ3"].ToString();
        WBook.Sheets.get_Item(2).Cells[39, 9] =
dr["MAPEHQ4"].ToString();
        WBook.Sheets.get_Item(2).Cells[39, 10] =
dr["MAPEHRating"].ToString();
        WBook.Sheets.get_Item(2).Cells[39, 11] =
dr["MAPEHRemarks"].ToString();
        WBook.Sheets.get_Item(2).Cells[40, 6] =
dr["MusicQ1"].ToString();
        WBook.Sheets.get_Item(2).Cells[40, 7] =
dr["MusicQ2"].ToString();
        WBook.Sheets.get_Item(2).Cells[40, 8] =
dr["MusicQ3"].ToString();
        WBook.Sheets.get_Item(2).Cells[40, 9] =
dr["MusicQ4"].ToString();
        WBook.Sheets.get_Item(2).Cells[40, 10] =
dr["MusicFRating"].ToString();
        WBook.Sheets.get_Item(2).Cells[40, 11] =
dr["MusicRemarks"].ToString();
        WBook.Sheets.get_Item(2).Cells[41, 6] =
dr["ArtsQ1"].ToString();
        WBook.Sheets.get_Item(2).Cells[41, 7] =
dr["ArtsQ2"].ToString();
        WBook.Sheets.get_Item(2).Cells[41, 8] =
dr["ArtsQ3"].ToString();
        WBook.Sheets.get_Item(2).Cells[41, 9] =
dr["ArtsQ4"].ToString();
        WBook.Sheets.get_Item(2).Cells[41, 10] =
dr["ArtsRating"].ToString();
        WBook.Sheets.get_Item(2).Cells[41, 11] =
dr["ArtsRemarks"].ToString();
        WBook.Sheets.get_Item(2).Cells[42, 6] =
dr["PEQ1"].ToString();

        h_others.checkbox.Checked = OtherCB;
    }
    public void enableBorderStyleTxtbox()
    {
        h_elensch_textbox.BorderStyle = BorderStyle.FixedSingle;
        h_elenaG_textbox.BorderStyle = BorderStyle.FixedSingle;
        h_citation1_textbox.BorderStyle = BorderStyle.FixedSingle;
        h_elensch_textbox1.BorderStyle = BorderStyle.FixedSingle;
        h_elensch_textbox2.BorderStyle = BorderStyle.FixedSingle;
        h_elenschAdd1_textbox.BorderStyle = BorderStyle.FixedSingle;
        h_peptRating_textbox.BorderStyle = BorderStyle.FixedSingle;
        h_als_rating_textbox.BorderStyle = BorderStyle.FixedSingle;
        h_others_textbox.BorderStyle = BorderStyle.FixedSingle;
        h_examdate_textbox.BorderStyle = BorderStyle.FixedSingle;
        h_examplace_textbox.BorderStyle = BorderStyle.FixedSingle;
    }
    public void disableBorderStyleTxtbox()
    {
        h_elensch_textbox.BorderStyle = BorderStyle.None;
        h_elenaG_textbox.BorderStyle = BorderStyle.None;
        h_citation1_textbox.BorderStyle = BorderStyle.None;
        h_elensch_textbox1.BorderStyle = BorderStyle.None;
        h_elensch_textbox2.BorderStyle = BorderStyle.None;
        h_elenschAdd1_textbox.BorderStyle = BorderStyle.None;
        h_peptRating_textbox.BorderStyle = BorderStyle.None;
        h_als_rating_textbox.BorderStyle = BorderStyle.None;
        h_others_textbox.BorderStyle = BorderStyle.None;
        h_examdate_textbox.BorderStyle = BorderStyle.None;
        h_examplace_textbox.BorderStyle = BorderStyle.None;
    }
    public void readOnlyControlsOtherSTD()
    {
        h_lname_textbox.ReadOnly = true;
        h_fname_textbox.ReadOnly = true;
        h_nameEx_textbox.ReadOnly = true;
        h_name_textbox.ReadOnly = true;
        h_bdate_textbox.ReadOnly = true;
        h_sex_textbox.ReadOnly = true;
        h_examdate_textbox.ReadOnly = true;
        h_examplace_textbox.ReadOnly = true;
        h_elenaG_textbox.ReadOnly = true;
        h_citation1_textbox.ReadOnly = true;
        h_elensch_textbox.ReadOnly = true;
        h_elenschID_textbox.ReadOnly = true;
        h_elenschAdd1_textbox.ReadOnly = true;
        h_peptRating_textbox.ReadOnly = true;
        h_als_rating_textbox.ReadOnly = true;
        h_others_textbox.ReadOnly = true;
        h_examdate_textbox.ReadOnly = true;
        h_examplace_textbox.ReadOnly = true;
        h_elenaPasser_checkbox.AutoCheck = false;
        h_pept_checkbox.AutoCheck = false;
        h_als_checkbox.AutoCheck = false;
        h_others_checkbox.AutoCheck = false;
    }
    public void EnableControlsControlsOtherSTD()
    {
        h_lname_textbox.ReadOnly = false;
        h_fname_textbox.ReadOnly = false;
        h_nameEx_textbox.ReadOnly = false;
        h_name_textbox.ReadOnly = false;
        h_bdate_textbox.ReadOnly = false;
        h_sex_textbox.ReadOnly = false;
    }
    #endregion
}

Mendregion
}
}

//Appearance Methods
#region appearance of controls
private void fillOtherSTDForm()
{
    bool elemPasser = Convert.ToBoolean(dr["ElemCompleter"]);
    h_elenaPasser_checkbox.Checked = elemPasser;
    h_elensch_textbox.Text = dr["Elenschool"].ToString();
    h_elenaG_textbox.Text = dr["Geneva"].ToString();
    h_elenschID_textbox.Text = dr["ElenschID"].ToString();
    h_elenschAdd1_textbox.Text = dr["ElenschAdd1"].ToString();
    h_citation1_textbox.Text = dr["Citation1"].ToString();
    bool peptPasser = Convert.ToBoolean(dr["PEPTPasser"]);
    h_pept_checkbox.Checked = peptPasser;
    h_examdate_textbox.Text = dr["Examdate"].ToString();
    bool alsPasser = Convert.ToBoolean(dr["Als_AEPasser"]);
    h_als_checkbox.Checked = alsPasser;
    h_als_rating_textbox.Text = dr["ALS_AERating"].ToString();
    h_examplace_textbox.Text = dr["Examplace"].ToString();
    h_examdate_textbox.Text = dr["ExamdateControlID"].ToString();
    h_others_textbox.Text = dr["Others"].ToString();
    bool OtherCB = Convert.ToBoolean(dr["Otherscheckbox"]);
}

```

Figures 101-118. Code-Behind of

SF10JHS.cs

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.IO;
using System.Linq;
using System.Runtime.InteropServices;
using System.Runtime.InteropServices.ComTypes;
using System.Text;
using System.Threading;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace SMHMS___SMS
{
    public partial class SF10SMS : Form
    {
        OleDbConnection con;
        OleDbCommand cmd;
        OleDbDataAdapter dr;
        OleDbConn = new OleDbConn();
        GradesHS shs = new GradesHS();
        public SF10SMS()
        {
            InitializeComponent();
            con = new OleDbConnection(db.getConn());
            LoadStudents();
            hideSortCmbx();
        }

        public void LoadStudents()
        {
            sf10SMS_DT.Rows.Clear();
            int r = 0;
            con.Open();
            cmd = new OleDbCommand("SELECT * FROM Students WHERE Status = 'Active' AND (Gradelevel = '11 - GAS' OR Gradelevel = '11 - TVL' OR Gradelevel = '12 - GAS' OR Gradelevel = '12 - TVL'", con);
            dr = cmd.ExecuteReader();

            while (dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
                    dr["NameExtn"].ToString();
                r++;
                sf10SMS_DT.Rows.Add(r, dr["Lrn"].ToString(), last_ext,
                    dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                    dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                    dr["Year"].ToString(), "Update", "View", "Export", dr["Address"].ToString(),
                    dr["Birthdate"].ToString(), dr["NameExtn"].ToString());
            }
            dr.Close();
            con.Close();
        }

        private void refresh_btn_Click(object sender, EventArgs e)
        {
            search_txtbox.Visible = true;
            LoadStudents();
            hideSortCmbx();
        }

        void SaveData()
        {
            for (int i = 0; i <= 300; i++)
                Thread.Sleep(3);
        }

        //Search and filtering of students
        #region
        public void SearchStudents()
        {
            if (search_txtbox.Text == "")
            {
                LoadStudents();
            }
            else
            {
                sf10SMS_DT.Rows.Clear();
                int r = 0;
                string query = search_txtbox.Text;
                con.Open();
                cmd = new OleDbCommand("SELECT * FROM Students WHERE Gradelevel = '11 - GAS' OR Gradelevel = '11 - TVL' OR Gradelevel = '12 - GAS' OR Gradelevel = '12 - TVL' AND (FirstName like '%" + query + "%' OR Lrn like '%" + query +
                    "%' OR LastName like '%" + query + "%')", con);
                cmd.Parameters.AddWithValue("@query", query);
                dr = cmd.ExecuteReader();

                while (dr.Read())
                {
                    string last_ext = dr["LastName"].ToString() + ' ' +
                        dr["NameExtn"].ToString();
                    r++;
                    sf10SMS_DT.Rows.Add(r, dr["Lrn"].ToString(), last_ext,
                        dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                        dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                        dr["Year"].ToString(), "Update", "View", "Export", dr["Address"].ToString(),
                        dr["Birthdate"].ToString(), dr["NameExtn"].ToString());
                }
                dr.Close();
                con.Close();
            }
        }

        public void hideSortCmbx()
        {
            gradeSort_cmbx.Visible = false;
            sort_cmbx.ResetText();
            gradeSort_cmbx.Visible = true;
            statusSort_cmbx.Visible = false;
            statusSort_cmbx.ResetText();
            search_txtbox.Text = "";
        }

        private void sortCmbx()
        {
            if (sort_cmbx.SelectedIndex == 0)
            {
                gradeSort_cmbx.Visible = true;
                statusSort_cmbx.Visible = false;
                search_txtbox.Visible = false;
            }
            else if (sort_cmbx.SelectedIndex == 1)
            {
                statusSort_cmbx.Visible = true;
            }
        }

        public void gradeSort()
        {
            sf10SMS_DT.Rows.Clear();
        }

        public void statusSort()
        {
            sf10SMS_DT.Rows.Clear();
            int r = 0;
            string query = statusSort_cmbx.SelectedItem.ToString();
            con.Open();
            cmd = new OleDbCommand("SELECT * FROM Students WHERE Status like '%" + query + "%' AND (Gradelevel = '11 - GAS' OR Gradelevel = '11 - TVL' OR Gradelevel = '12 - GAS' OR Gradelevel = '12 - TVL'", con);
            cmd.Parameters.AddWithValue("@query", query);
            dr = cmd.ExecuteReader();

            while (dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
                    dr["NameExtn"].ToString();
                sf10SMS_DT.Rows.Add(r, dr["Lrn"].ToString(), last_ext,
                    dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                    dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                    dr["Year"].ToString(), "Update", "View", "Export", dr["Address"].ToString(),
                    dr["Birthdate"].ToString(), dr["NameExtn"].ToString());
            }
            dr.Close();
            con.Close();
        }

        public void AllStudents()
        {
            sf10SMS_DT.Rows.Clear();
            int r = 0;
            con.Open();
            cmd = new OleDbCommand("SELECT * FROM Students WHERE Gradelevel = '11 - GAS' OR Gradelevel = '11 - TVL' OR Gradelevel = '12 - GAS' OR Gradelevel = '12 - TVL'", con);
            dr = cmd.ExecuteReader();

            while (dr.Read())
            {
                string last_ext = dr["LastName"].ToString() + ' ' +
                    dr["NameExtn"].ToString();
                sf10SMS_DT.Rows.Add(r, dr["Lrn"].ToString(), last_ext,
                    dr["FirstName"].ToString(), dr["MiddleName"].ToString(),
                    dr["Gender"].ToString(), dr["Gradelevel"].ToString(), dr["Status"].ToString(),
                    dr["Year"].ToString(), "Update", "View", "Export", dr["Address"].ToString(),
                    dr["Birthdate"].ToString(), dr["NameExtn"].ToString());
            }
            dr.Close();
            con.Close();
        }

        public void refresh()
        {
            sf10SMS_DT.Rows.Clear();
        }

        public void sort_cmbx_SelectedIndexChanged(object sender, EventArgs e)
        {
            hideSortCmbx();
            sortCmbx();
        }

        private void statusSort_cmbx_SelectedIndexChanged(object sender, EventArgs e)
        {
            statusSort();
        }

        private void gradeSort_cmbx_SelectedIndexChanged(object sender, EventArgs e)
        {
            gradeSort();
        }

        private void search_txtbox_TextChanged(object sender, EventArgs e)
        {
            searchStudents();
        }

        #endregion

        //View, Update, Export buttons
        private void sf10SMS_DT_CellContentClick(object sender, DataGridViewCellEventArgs e)
        {
            string colName = sf10SMS_DT.Columns[e.ColumnIndex].Name;
            if (colName == "View")
            {
                shs.update_btn.Visible = false;
                shs.clear_btn.Visible = false;
                shs.lrn_textbox.Text = sf10SMS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
                shs.lname_textbox.Text = sf10SMS_DT.Rows[e.RowIndex].Cells[2].Value.ToString();
            }
        }
    }
}

```

```

shs.fname_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[3].Value.ToString();
shs.menu_comboBox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[4].Value.ToString();
shs.bdate_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[13].Value.ToString();
shs.sex_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[5].Value.ToString();
if (sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "11 - GAS")
{
    shs.Grade11TVLISSelect();
    shs.menu_comboBox.SelectedIndex = 0;
    shs.disableBordersTexboxesDT();
    shs.ShowDialog();
}
else if (sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "11 - GAS")
{
    shs.Grade11TVLISSelect();
    shs.menu_comboBox.SelectedIndex = 0;
    shs.disableBordersTexboxesDT();
    shs.ShowDialog();
}
else if (sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "12 - TVL")
{
    shs.Grade11TVLISSelect();
    shs.menu_comboBox.SelectedIndex = 2;
    shs.disableBordersTexboxesDT();
    shs.ShowDialog();
}
else if (sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "12 - GAS")
{
    shs.Grade12GASISSelect();
    shs.menu_comboBox.SelectedIndex = 2;
    shs.disableBordersTexboxesDT();
    shs.ShowDialog();
}
else if (colName == "UpdateSHS")
{
    shs.update_btn.Visible = true;
    shs.clear_btn.Visible = true;
    shs.lrn_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString();
    shs.lname_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[2].Value.ToString();
    shs.fname_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[3].Value.ToString();
    shs.mname_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[4].Value.ToString();
    shs.bdate_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[13].Value.ToString();
    shs.sex_textbox.Text =
sf10SHS_DT.Rows[e.RowIndex].Cells[5].Value.ToString();
if (sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "11 - GAS")
{
    shs.Grade11TVLISSelect();
    shs.menu_comboBox.SelectedIndex = 0;
}
else if (sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "12 - TVL")
{
    shs.Grade11TVLISSelect();
    shs.menu_comboBox.SelectedIndex = 2;
    shs.disableBordersTexboxesDT();
    shs.ShowDialog();
}
else if (sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "12 - GAS")
{
    shs.Grade12GASISSelect();
    shs.menu_comboBox.SelectedIndex = 2;
    shs.disableBordersTexboxesDT();
    shs.ShowDialog();
}
else if (colName == "Export")
{
    if (sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "12 - TVL")
    {
        object oMissing = Missing.Value;
        Microsoft.Office.Interop.Excel.Application ExcelObj = new
Microsoft.Office.Interop.Excel.Application();
        Microsoft.Office.Interop.Excel.Workbook WBook;
        Microsoft.Office.Interop.Excel.Worksheet WSheet;
        string SF10TBLV = Path.Combine(Application.StartupPath,
"Resources", "SF10-TBLV.xlsx");
        WBook = ExcelObj.Workbooks.Open(SF10TBLV,
        oMissing, oMissing, oMissing, oMissing,
        oMissing, oMissing, oMissing, oMissing,
        oMissing, oMissing, oMissing);
        using (waitForm wfrm = new waitForm(SaveData))
        {
            wfrm.ShowDialog(this);
        }
        //open the existing sheet
        WSheet =
(Microsoft.Office.Interop.Excel.Worksheet)WBook.Sheets.get_Item(1);
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Students WHERE LRN =
@LRN", con);
        cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            WSheet.Cells[8, 6] = dr["LastName"].ToString();
            WSheet.Cells[8, "Y"] = dr["FirstName"].ToString();
        }
        dr.Close();
        con.Close();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN =
@LRN", con);
        cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            //1st SEM Grade 11
            WSheet.Cells[23, "E"] = dr["MiddleName"].ToString();
            WSheet.Cells[9, "C"] = dr["LRN"].ToString();
            WSheet.Cells[9, "AA"] = dr["BirthDate"].ToString();
            WSheet.Cells[9, "AN"] = dr["Gender"].ToString();
        }
        dr.Close();
        con.Close();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN =
@LRN", con);
        cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            //1st SEM Grade 11
            WSheet.Cells[23, "E"] = dr["School"].ToString();
            WSheet.Cells[23, "AF"] = dr["SchID"].ToString();
            WSheet.Cells[23, "BA"] = dr["SchYear"].ToString();
            WSheet.Cells[23, "AS"] = dr["Section"].ToString();
            WSheet.Cells[31, "AT"] = dr["OralCom1Q"].ToString();
            WSheet.Cells[31, "AY"] = dr["OralCom2Q"].ToString();
            WSheet.Cells[32, "AT"] = dr["KPKW1Q"].ToString();
            WSheet.Cells[32, "AY"] = dr["KPKW2Q"].ToString();
            WSheet.Cells[33, "AT"] = dr["EarthSci1Q"].ToString();
            WSheet.Cells[33, "AY"] = dr["EarthSci2Q"].ToString();
            WSheet.Cells[34, "AY"] = dr["EarthSci1Q"].ToString();
            WSheet.Cells[34, "AY"] = dr["EarthSci2Q"].ToString();
            WSheet.Cells[35, "AY"] = dr["PEH1Q"].ToString();
            WSheet.Cells[35, "AY"] = dr["PEH2Q"].ToString();
            WSheet.Cells[36, "AT"] = dr["EAPP1Q"].ToString();
            WSheet.Cells[36, "AY"] = dr["EAPP2Q"].ToString();
            WSheet.Cells[37, "AT"] = dr["Band1Q"].ToString();
            WSheet.Cells[37, "AY"] = dr["Band2Q"].ToString();
        }
        dr.Close();
        con.Close();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade12 WHERE LRN =
@LRN", con);
        cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            //1ST SEM Grade 12
            WSheet.Cells[66, "E"] = dr["School"].ToString();
            WSheet.Cells[66, "AF"] = dr["SchID"].ToString();
            WSheet.Cells[66, "BA"] = dr["SchYear"].ToString();
            WSheet.Cells[66, "AS"] = dr["Section"].ToString();
            WSheet.Cells[74, "AT"] = dr["Reading4Q"].ToString();
            WSheet.Cells[74, "AY"] = dr["Reading5Q"].ToString();
            WSheet.Cells[75, "AT"] = dr["PapGra1Q"].ToString();
            WSheet.Cells[75, "AY"] = dr["PapGra2Q"].ToString();
            WSheet.Cells[76, "AT"] = dr["StatsProb3Q"].ToString();
            WSheet.Cells[76, "AY"] = dr["StatsProb4Q"].ToString();
            WSheet.Cells[77, "AT"] = dr["Physc14Q"].ToString();
            WSheet.Cells[77, "AY"] = dr["Physc23Q"].ToString();
            WSheet.Cells[78, "AT"] = dr["PEH24Q"].ToString();
            WSheet.Cells[78, "AY"] = dr["PEH14Q"].ToString();
            WSheet.Cells[80, "AT"] = dr["F1IP13Q"].ToString();
            WSheet.Cells[80, "AY"] = dr["F1IP14Q"].ToString();
            WSheet.Cells[81, "AT"] = dr["FBS3Q"].ToString();
            WSheet.Cells[81, "AY"] = dr["FBS4Q"].ToString();
        }
        dr.Close();
        con.Close();
        con.Open();
        cmd = new OleDbCommand("SELECT * FROM Grade12 WHERE LRN =
@LRN", con);
        cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            //1ST SEM Grade 12
            WBook.Sheets.get_Item(2).Cells[4, "E"] =
dr["School"].ToString();
            WBook.Sheets.get_Item(2).Cells[4, "AF"] =
dr["SchID"].ToString();
            WBook.Sheets.get_Item(2).Cells[4, "BA"] =
dr["SchYear"].ToString();
            WBook.Sheets.get_Item(2).Cells[4, "AS"] =
dr["Section"].ToString();
            WBook.Sheets.get_Item(2).Cells[11, "AT"] =
dr["21stLitTVL1Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[11, "AY"] =
dr["21stLitTVL2Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[12, "AT"] =
dr["IntroPhilo1Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[12, "AY"] =
dr["UCSP1Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[13, "AT"] =
dr["UCSP2Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[13, "AY"] =
dr["CPAR1Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[14, "AT"] =
dr["CPAR2Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[14, "AY"] =
dr["PEH31Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[15, "AY"] =
dr["PEH32Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[16, "AT"] =
dr["Entrep1Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[16, "AY"] =
dr["Entrep2Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[17, "AT"] =
dr["PR21Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[17, "AY"] =
dr["PR22Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[18, "AT"] =
dr["Cookery1Q"].ToString();
            WBook.Sheets.get_Item(2).Cells[18, "AY"] =
dr["Cookery2Q"].ToString();
        }
        dr.Close();
        WBook.Close();
        WBook = null;
        Application.Quit();
    }
}

```

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        WBook.Sheets.get_Item(2).Cells[59, "AT"] =
dr["PDev3Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AY"] =
dr["PDev4Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AT"] =
dr["PEH43Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AY"] =
dr["PEH44Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AT"] =
dr["EmTech3Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AY"] =
dr["EmTech4Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AT"] =
dr["ITI3Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AY"] =
dr["ITI4Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AT"] =
dr["Cookery23Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[59, "AY"] =
dr["Cookery24Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[60, "AT"] =
dr["WorkImm3Q"].ToString();
        WBook.Sheets.get_Item(2).Cells[60, "AY"] =
dr["WorkImm4Q"].ToString();
        dr.Close();
        con.Close();
    ExcelObj.Visible = true;
    Marshal.ReleaseComObject(wSheet);
    Marshal.ReleaseComObject(wBook);
    Marshal.ReleaseComObject(ExcelObj);
    wSheet = null;
    wBook = null;
    ExcelObj = null;
    GC.Collect();
}
else if ((sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() ==
"11 - GAS" || sf10SHS_DT.Rows[e.RowIndex].Cells[6].Value.ToString() == "12 -
GAS")
{
    object oMissing = Missing.Value;
    Microsoft.Office.Interop.Excel.Application ExcelObj = new
Microsoft.Office.Interop.Excel.Application();
    Microsoft.Office.Interop.Excel.Workbook wBook;
    Microsoft.Office.Interop.Excel.Worksheet wSheet;
    string SF10GAS = Path.Combine(Application.StartupPath,
"Resources", "SF10-GAS.xlsx");
    wBook = ExcelObj.Workbooks.Open(SF10GAS,
oMissing, oMissing, oMissing, oMissing,
oMissing, oMissing, oMissing, oMissing,
oMissing, oMissing, oMissing);
    using (waitForm wfrm = new waitForm(SaveData))
    {
        wfrm.ShowDialog(this);
    }
    //open the existing sheet
    wSheet =
(Microsoft.Office.Interop.Excel.Worksheet)wBook.Sheets.get_Item(1);

    con.Open();
    cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN =
@LRN", con);
    cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
    dr = cmd.ExecuteReader();
    while (dr.Read())
    {
        WSheet.Cells[8, 6] = dr["LastName"].ToString();
        WSheet.Cells[8, "E"] = dr["FirstNames"].ToString();
        WSheet.Cells[8, "AY"] = dr["PDev1Q"].ToString();
        WSheet.Cells[9, "C"] = dr["LRN"].ToString();
        WSheet.Cells[9, "AA"] = dr["Birthdate"].ToString();
        WSheet.Cells[9, "AN"] = dr["Gender"].ToString();
    }
    dr.Close();
    con.Close();
}
con.Open();
cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN =
@LRN", con);
cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
dr = cmd.ExecuteReader();
while (dr.Read())
{
    //1st SEM Grade 11
    WSheet.Cells[23, "E"] = dr["School1"].ToString();
    WSheet.Cells[23, "AF"] = dr["SchidP"].ToString();
    WSheet.Cells[23, "BA"] = dr["SchYear"].ToString();
    WSheet.Cells[23, "AS"] = dr["Section"].ToString();

    WSheet.Cells[31, "AT"] = dr["OrgAlCom1Q"].ToString();
    WSheet.Cells[31, "AY"] = dr["OrgAlCom2Q"].ToString();
    WSheet.Cells[32, "AT"] = dr["OrgMkP2Q"].ToString();
    WSheet.Cells[32, "AY"] = dr["MKMP2Q"].ToString();
    WSheet.Cells[33, "AT"] = dr["GenMath1Q"].ToString();
    WSheet.Cells[33, "AY"] = dr["GenMath2Q"].ToString();
    WSheet.Cells[34, "AT"] = dr["EarthSci1Q"].ToString();
    WSheet.Cells[34, "AY"] = dr["EarthSci2Q"].ToString();
    WSheet.Cells[35, "AT"] = dr["21stLitGAS1Q"].ToString();
    WSheet.Cells[35, "AY"] = dr["21stLitGAS2Q"].ToString();
    WSheet.Cells[36, "AT"] = dr["PEH1Q"].ToString();
    WSheet.Cells[36, "AY"] = dr["PEH2Q"].ToString();
    WSheet.Cells[37, "AT"] = dr["EAPP1Q"].ToString();
    WSheet.Cells[37, "AY"] = dr["EAPP2Q"].ToString();
    WSheet.Cells[38, "AT"] = dr["OrgMan1Q"].ToString();
    WSheet.Cells[38, "AY"] = dr["OrgMan2Q"].ToString();
    WSheet.Cells[39, "AT"] = dr["Section"].ToString();
    dr["ElecDiscipline1Q"].ToString();
    WSheet.Cells[39, "AY"] =
dr["ElecDiscipline2Q"].ToString();
}
//2nd SEM Grade 11
WSheet.Cells[66, "E"] = dr["School1"].ToString();
WSheet.Cells[66, "AF"] = dr["SchidP"].ToString();
WSheet.Cells[66, "BA"] = dr["SchYear"].ToString();
WSheet.Cells[66, "AS"] = dr["Section"].ToString();

WSheet.Cells[74, "AT"] = dr["RandW3Q"].ToString();
WSheet.Cells[74, "AY"] = dr["RandW4Q"].ToString();
WSheet.Cells[75, "AT"] = dr["Papasa1Q"].ToString();
WSheet.Cells[75, "AY"] = dr["Papasa2Q"].ToString();
WSheet.Cells[76, "AT"] = dr["StatsProb3Q"].ToString();
WSheet.Cells[76, "AY"] = dr["StatsProb4Q"].ToString();
WSheet.Cells[77, "AT"] = dr["Physic13Q"].ToString();
WSheet.Cells[77, "AY"] = dr["Physic14Q"].ToString();
WSheet.Cells[78, "AT"] = dr["PEH2Q"].ToString();
WSheet.Cells[78, "AY"] = dr["PEH3Q"].ToString();
WSheet.Cells[79, "AT"] = dr["F1PL1Q3Q"].ToString();
WSheet.Cells[79, "AY"] = dr["F1PL4Q"].ToString();
WSheet.Cells[80, "AT"] = dr["PRR13Q"].ToString();
WSheet.Cells[80, "AY"] = dr["PRR14Q"].ToString();
WSheet.Cells[81, "AT"] = dr["DRR8Q"].ToString();
WSheet.Cells[81, "AY"] = dr["DRR9Q"].ToString();
WSheet.Cells[82, "AT"] = dr["CWritingM3Q"].ToString();
WSheet.Cells[82, "AY"] = dr["CWritingM4Q"].ToString();
}

dr.Close();
con.Close();
}
ExcelObj.Visible = true;
Marshal.ReleaseComObject(wSheet);
Marshal.ReleaseComObject(wBook);
Marshal.ReleaseComObject(ExcelObj);
wSheet = null;
wBook = null;
ExcelObj = null;
GC.Collect();
}
dr.Open();
cmd = new OleDbCommand("SELECT * FROM Grade12 WHERE LRN =
@LRN", con);
cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
dr = cmd.ExecuteReader();
while (dr.Read())
{
    //1ST SEM Grade 12
    WBook.Sheets.get_Item(2).Cells[4, "E"] =
dr["School1"].ToString();
    WBook.Sheets.get_Item(2).Cells[4, "AF"] =
dr["SchIDP"].ToString();
    WBook.Sheets.get_Item(2).Cells[4, "BA"] =
dr["SchYear"].ToString();
    WBook.Sheets.get_Item(2).Cells[5, "AS"] =
dr["Section"].ToString();

    WBook.Sheets.get_Item(2).Cells[11, "AT"] =
dr["IntroPhilol1Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[11, "AY"] =
dr["IntroPhilol2Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[12, "AT"] =
dr["UCSP1Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[12, "AY"] =
dr["UCSP2Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[13, "AT"] =
dr["CPARIQ"].ToString();
    WBook.Sheets.get_Item(2).Cells[13, "AY"] =
dr["CPAR2Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[14, "AT"] =
dr["PEH33Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[14, "AY"] =
dr["PEH32Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[15, "AT"] =
dr["Entrep1Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[15, "AY"] =
dr["Entrep2Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[16, "AT"] =
dr["PR21Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[16, "AY"] =
dr["PR22Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[17, "AT"] =
dr["Religion1Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[17, "AY"] =
dr["Religion2Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[18, "AT"] =
dr["Religion10Q"].ToString();
    WBook.Sheets.get_Item(2).Cells[18, "AY"] =
dr["Religion20Q"].ToString();
}

dr.Close();
con.Close();
}
ExcelObj.Visible = true;
Marshal.ReleaseComObject(wSheet);
Marshal.ReleaseComObject(wBook);
Marshal.ReleaseComObject(ExcelObj);
wSheet = null;
wBook = null;
ExcelObj = null;
GC.Collect();
}
dr.Open();
cmd = new OleDbCommand("SELECT * FROM Students WHERE LRN =
@LRN", con);
cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
dr = cmd.ExecuteReader();
while (dr.Read())
{
    WSheet.Cells[8, 6] = dr["LastName"].ToString();
    WSheet.Cells[8, "E"] = dr["FirstNames"].ToString();
    WSheet.Cells[8, "AY"] = dr["PDev1Q"].ToString();
    WSheet.Cells[9, "C"] = dr["LRN"].ToString();
    WSheet.Cells[9, "AA"] = dr["Birthdate"].ToString();
    WSheet.Cells[9, "AN"] = dr["Gender"].ToString();
}
dr.Close();
con.Close();
}
con.Open();
cmd = new OleDbCommand("SELECT * FROM Grade11 WHERE LRN =
@LRN", con);
cmd.Parameters.AddWithValue("@LRN",
sf10SHS_DT.Rows[e.RowIndex].Cells[1].Value.ToString());
dr = cmd.ExecuteReader();
while (dr.Read())
{
    //1st SEM Grade 11
    WSheet.Cells[23, "E"] = dr["School1"].ToString();
    WSheet.Cells[23, "AF"] = dr["SchidP"].ToString();
    WSheet.Cells[23, "BA"] = dr["SchYear"].ToString();
    WSheet.Cells[23, "AS"] = dr["Section"].ToString();

    WSheet.Cells[31, "AT"] = dr["OrgAlCom1Q"].ToString();
    WSheet.Cells[31, "AY"] = dr["OrgAlCom2Q"].ToString();
    WSheet.Cells[32, "AT"] = dr["OrgMkP2Q"].ToString();
    WSheet.Cells[32, "AY"] = dr["MKMP2Q"].ToString();
    WSheet.Cells[33, "AT"] = dr["GenMath1Q"].ToString();
    WSheet.Cells[33, "AY"] = dr["GenMath2Q"].ToString();
    WSheet.Cells[34, "AT"] = dr["EarthSci1Q"].ToString();
    WSheet.Cells[34, "AY"] = dr["EarthSci2Q"].ToString();
    WSheet.Cells[35, "AT"] = dr["21stLitGAS1Q"].ToString();
    WSheet.Cells[35, "AY"] = dr["21stLitGAS2Q"].ToString();
    WSheet.Cells[36, "AT"] = dr["PEH1Q"].ToString();
    WSheet.Cells[36, "AY"] = dr["PEH2Q"].ToString();
    WSheet.Cells[37, "AT"] = dr["EAPP1Q"].ToString();
    WSheet.Cells[37, "AY"] = dr["EAPP2Q"].ToString();
    WSheet.Cells[38, "AT"] = dr["OrgMan1Q"].ToString();
    WSheet.Cells[38, "AY"] = dr["OrgMan2Q"].ToString();
    WSheet.Cells[39, "AT"] = dr["Section"].ToString();
    dr["ElecDiscipline1Q"].ToString();
    WSheet.Cells[39, "AY"] =
dr["ElecDiscipline2Q"].ToString();
}
//2nd SEM Grade 11
WSheet.Cells[66, "E"] = dr["School1"].ToString();
WSheet.Cells[66, "AF"] = dr["SchidP"].ToString();
WSheet.Cells[66, "BA"] = dr["SchYear"].ToString();
WSheet.Cells[66, "AS"] = dr["Section"].ToString();

WSheet.Cells[74, "AT"] = dr["RandW3Q"].ToString();
WSheet.Cells[74, "AY"] = dr["RandW4Q"].ToString();
WSheet.Cells[75, "AT"] = dr["Papasa1Q"].ToString();
WSheet.Cells[75, "AY"] = dr["Papasa2Q"].ToString();
WSheet.Cells[76, "AT"] = dr["StatsProb3Q"].ToString();
WSheet.Cells[76, "AY"] = dr["StatsProb4Q"].ToString();
}

```

Figures 118-130. Code-Behind of