IT 2053 - Rapid Application Development

ASSIGNMENT 03

Instructions

- Answer ALL questions.
- Marks will be awarded for good presentation and thoroughness in your approach.
- **NO** marks will be awarded for the entire assignment if any part of it is found to be copied directly from printed materials or from another student.
- Complete this cover sheet and attach it to your assignment.

Student declaration:

I declare that:

- I understand what is meant by plagiarism
- The implications of plagiarism have been explained to me by my institution
- This assignment is all my own work and I have acknowledged any use of the published or unpublished works of other people.

Student's signature:

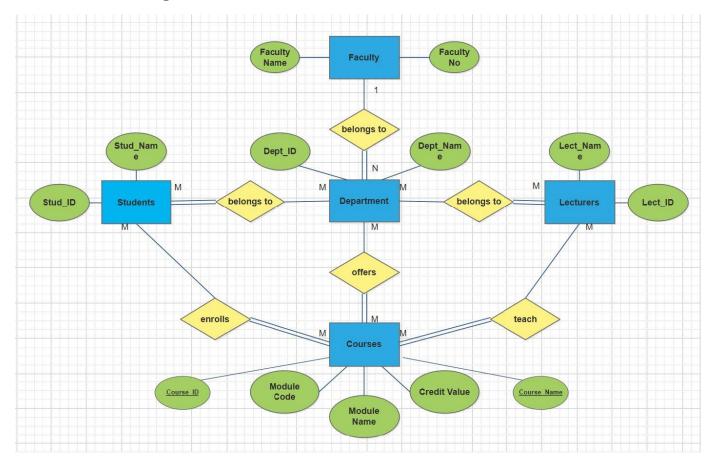
Date:

Total number of pages including this cover page			18Pgs
Submission Date	7/4/2021	Due Date	7/4/2021
Student's ID	D/BIT/19/0010	Class Code	
Student's Full Name	S H I D N DE SILVA		
Lecturer's Name	Mrs. Dushyanthi Vidanagamage		

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MARKER'S COMMENTS	
Marker's Name	Marks Awarded (100%)

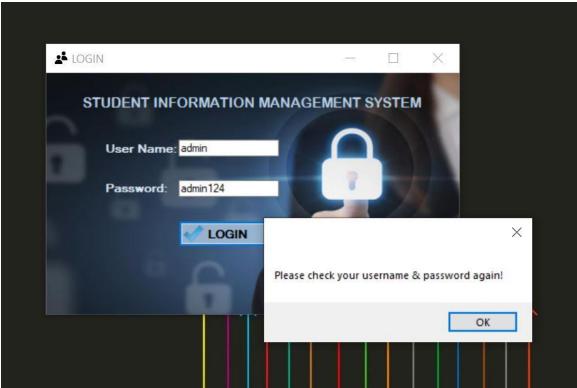
• ER Diagram,

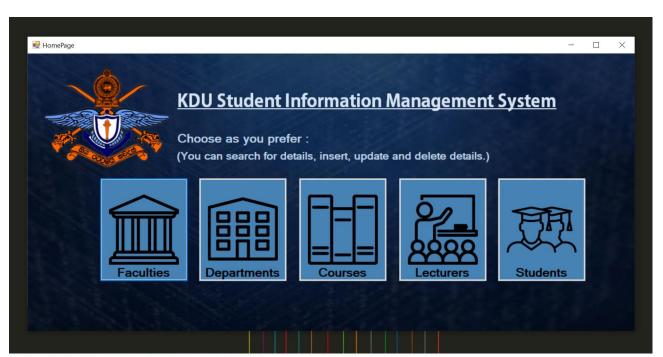


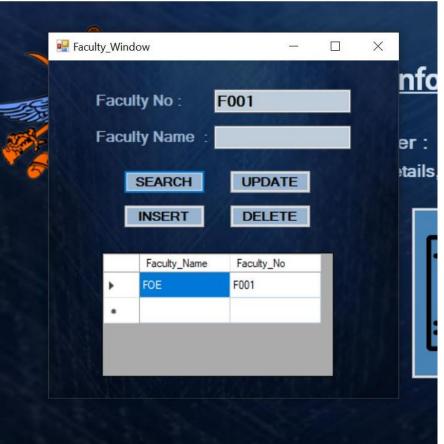
Here I have made a simple & user-friendly Student Information Management System. From this application you can view, update, delete & insert data.

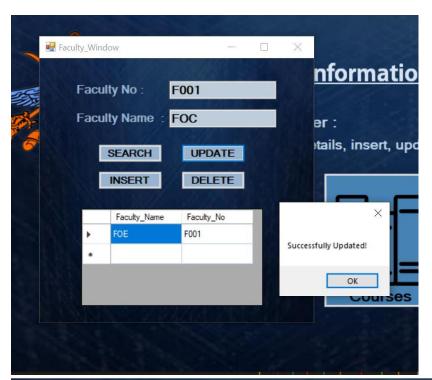
• Screenshots of the Forms,

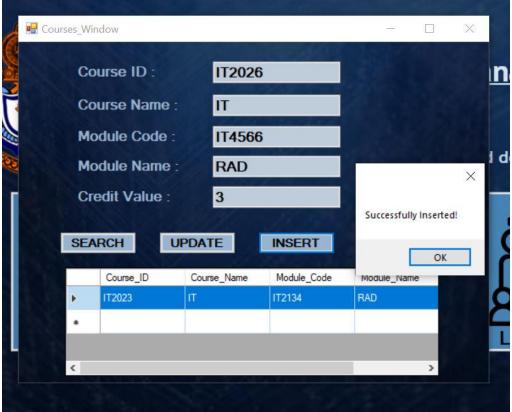


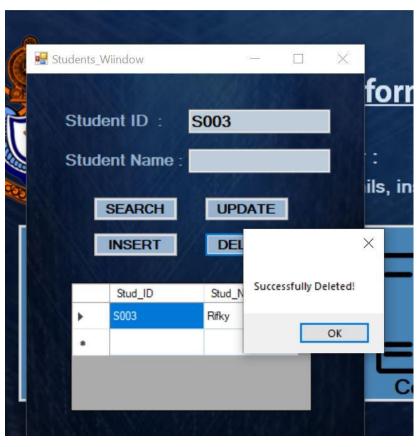


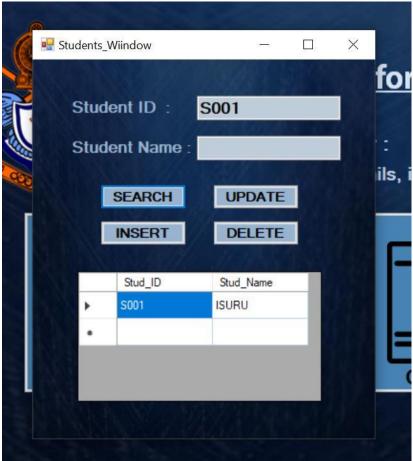












• Source Codes,

Login Window -

```
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.SqlClient;
namespace SIMS
           partial class LOGIN : Form
        public LOGIN()
            InitializeComponent();
        private void button1_Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True;");
            SqlDataAdapter sda = new SqlDataAdapter("Select Count ( * ) From Login
where Username='" + textBox1.Text + "' and Password = '" + textBox2.Text + "'", con);
            DataTable dt = new DataTable();
            sda.Fill(dt);
            if (dt.Rows[0][0].ToString() == "1")
                this.Hide();
                HomePage hp = new HomePage();
                hp.Show();
            else
                MessageBox.Show("Please check your username & password again!");
```

Homepage Window –

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace SIMS
    public partial class HomePage : Form
        public HomePage()
           InitializeComponent();
        private void button_faculty_Click(object sender, EventArgs e)
            Faculty_Window ff = new Faculty_Window();
            ff.Show();
        private void button_department_Click(object sender, EventArgs e)
            Departments_Window dd = new Departments_Window();
           dd.Show();
        private void button_course_Click(object sender, EventArgs e)
            Courses Window cc = new Courses Window();
           cc.Show();
        private void button_lecturer_Click(object sender, EventArgs e)
            Lecturers_Window 11 = new Lecturers_Window();
            11.Show();
        private void button_student_Click(object sender, EventArgs e)
            Students_Wiindows ss = new Students_Wiindows();
           ss.Show();
```

Faculty Window -

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace SIMS
    public partial class Faculty Window : Form
         public Faculty Window()
             InitializeComponent();
         private void button1_Click(object sender, EventArgs e)
             SqlConnection con = new SqlConnection("Data Source=HUMPTY1409; Initial
Catalog=SIMS;Integrated Security=True");
             con.Open();
             SqlCommand cmd = new SqlCommand("insert into Faculty values
(@Faculty_Name,@Faculty_No) ",con);
             cmd.Parameters.AddWithValue("@Faculty_Name", textBox1.Text);
cmd.Parameters.AddWithValue("@Faculty_No", textBox2.Text);
             cmd.ExecuteNonQuery();
             con.Close();
MessageBox.Show("Successfully Inserted!");
         private void button2 Click(object sender, EventArgs e)
             SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
             con.Open();
             SqlCommand cmd = new SqlCommand("Update Faculty set Faculty_Name
=@Faculty_Name Where Faculty_No = @Faculty_No", con);

cmd.Parameters.AddWithValue("@Faculty_Name", textBox1.Text);

cmd.Parameters.AddWithValue("@Faculty_No", textBox2.Text);
             cmd.ExecuteNonQuery();
             con.Close();
             MessageBox.Show("Successfully Updated!");
         private void button3_Click(object sender, EventArgs e)
             SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
             con.Open();
             SqlCommand cmd = new SqlCommand("Delete Faculty Where Faculty_No =
@Faculty_No", con);
             cmd.Parameters.AddWithValue("@Faculty_No", textBox2.Text);
             cmd.ExecuteNonQuery();
             con.Close();
             MessageBox.Show("Successfully Deleted!");
```

Department Window –

```
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.SqlClient;
namespace SIMS
          partial class Departments Window: Form
       public Departments Window()
           InitializeComponent();
       private void button1_Click(object sender, EventArgs e)
           SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
           con.Open();
           SqlCommand cmd = new SqlCommand("insert into Dept values
cmd.ExecuteNonQuery();
           con.Close();
           MessageBox.Show("Successfully Inserted!");
       private void button2_Click(object sender, EventArgs e)
           SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
           con.Open();
           SqlCommand cmd = new SqlCommand("Update Dept set Dept_Name =@Dept_Name
Where Dept_ID = @Dept_ID", con);
           cmd.Parameters.AddWithValue("@Dept_ID", textBox1.Text);
cmd.Parameters.AddWithValue("@Dept_Name", textBox2.Text);
           cmd.ExecuteNonQuery();
           con.Close();
           MessageBox.Show("Successfully Updated!");
       private void button3_Click(object sender, EventArgs e)
           SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
           con.Open();
            SqlCommand cmd = new SqlCommand("Delete Dept Where Dept_ID = @Dept_ID",
con);
           cmd.Parameters.AddWithValue("Dept_ID", textBox1.Text);
           cmd.ExecuteNonQuery();
           con.Close();
           MessageBox.Show("Successfully Deleted!");
```

Courses Window -

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace SIMS
               partial class Courses Window: Form
                    Courses_Window()
                 InitializeComponent();
           private void Courses_Window_Load(object sender, EventArgs e)
           private void button1_Click(object sender, EventArgs e)
                 SqlConnection con = new SqlConnection("Data Source=HUMPTY1409; Initial
Catalog=SIMS;Integrated Security=True");
                 con.Open();
                SqlCommand cmd = new SqlCommand("insert into courses values
(@Course_ID,@Course_Name,@Module_Code,@Module_Name,@Credit_Value)", con);
cmd.Parameters.AddWithValue("@Course_ID", textBox1.Text);
cmd.Parameters.AddWithValue("@Course_Name", textBox2.Text);
cmd.Parameters.AddWithValue("@Module_Code", textBox3.Text);
cmd.Parameters.AddWithValue("@Module_Name", textBox4.Text);
cmd.Parameters.AddWithValue("@Credit_Value", textBox5.Text);
                 cmd.ExecuteNonQuery();
                 con.Close();
                MessageBox.Show("Successfully Inserted!");
           private void button2_Click(object sender, EventArgs e)
                 SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
                con.Open();
                 SqlCommand cmd = new SqlCommand("Update Courses set Course_Name
-@Course_Name, Module_Code =@Module_Code, Module_Name =@Module_Name, Credit_Value
=@Credit_Value Where Course_ID = @Course_ID", con);
                cmd.Parameters.AddWithValue("@Course_ID", textBox1.Text);
cmd.Parameters.AddWithValue("@Course_Name", textBox2.Text);
cmd.Parameters.AddWithValue("@Module_Code", textBox3.Text);
cmd.Parameters.AddWithValue("@Module_Name", textBox4.Text);
cmd.Parameters.AddWithValue("@Credit_Value", textBox5.Text);
                cmd.ExecuteNonQuery();
                con.Close();
                MessageBox.Show("Successfully Updated!");
```

```
private void button3_Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS; Integrated Security=True");
           con.Open();
           SqlCommand cmd = new SqlCommand("Delete Courses Where Course_ID =
@Course_ID", con);
           cmd.Parameters.AddWithValue("@Course_ID", textBox1.Text);
            cmd.ExecuteNonQuery();
           con.Close();
           MessageBox.Show("Successfully Deleted!");
       private void button4_Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
           con.Open();
           SqlCommand cmd = new SqlCommand("Select * from Courses where Course_ID =
@Course_ID", con);
           cmd.Parameters.AddWithValue("@Course_ID", textBox1.Text);
           SqlDataAdapter da = new SqlDataAdapter(cmd);
           DataTable dt = new DataTable();
           da.Fill(dt);
           dataGridView1.DataSource = dt;
```

Lecturers Window –

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace SIMS
          partial class Lecturers Window : Form
        public Lecturers Window()
            InitializeComponent();
              private void button1_Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
            con.Open();
            SqlCommand cmd = new SqlCommand("insert into Lecturers values
cmd.ExecuteNonQuery();
            con.Close();
            MessageBox.Show("Successfully Inserted!");
        private void button2 Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
            con.Open();
            SqlCommand cmd = new SqlCommand("Update Lecturers set Lect_Name
=@Lect_Name Where Lect_ID = @Lect_ID", con);

cmd.Parameters.AddWithValue("@Lect_ID", textBox1.Text);

cmd.Parameters.AddWithValue("@Lect_Name", textBox2.Text);
            cmd.ExecuteNonQuery();
            con.Close();
            MessageBox.Show("Successfully Updated!");
        private void button3_Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
            con.Open();
            SqlCommand cmd = new SqlCommand("Delete Lecturers Where Lect_ID =
@Lect_ID", con);
            cmd.Parameters.AddWithValue("@Lect_ID", textBox1.Text);
            cmd.ExecuteNonQuery();
            con.Close();
```

```
MessageBox.Show("Successfully Deleted!");
}

private void button4_Click(object sender, EventArgs e)
{
    SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
    con.Open();
    SqlCommand cmd = new SqlCommand("Select * from Lecturers where Lect_ID =
@Lect_ID", con);
    cmd.Parameters.AddWithValue("@Lect_ID", textBox1.Text);
    SqlDataAdapter da = new SqlDataAdapter(cmd);
    DataTable dt = new DataTable();
    da.Fill(dt);
    dataGridView1.DataSource = dt;
}
}
```

Student Window -

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace SIMS
          partial class Students Wiindows : Form
        public Students Wiindows()
            InitializeComponent();
        private void button1_Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
            con.Open();
           SqlCommand cmd = new SqlCommand("insert into Student values
cmd.ExecuteNonQuery();
            con.Close();
           MessageBox.Show("Successfully Inserted!");
        private void button2_Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
            con.Open();
           SqlCommand cmd = new SqlCommand("Update Student set Stud_Name =@Stud_Name
Where Stud_ID = @Stud_ID", con);
           cmd.Parameters.AddWithValue("@Stud_ID", textBox1.Text);
cmd.Parameters.AddWithValue("@Stud_Name", textBox2.Text);
           cmd.ExecuteNonQuery();
            con.Close();
           MessageBox.Show("Successfully Updated!");
        private void button3_Click(object sender, EventArgs e)
            SqlConnection con = new SqlConnection("Data Source=HUMPTY1409;Initial
Catalog=SIMS;Integrated Security=True");
           con.Open();
            SqlCommand cmd = new SqlCommand("Delete Student Where Stud ID = @Stud ID",
con);
            cmd.Parameters.AddWithValue("@Stud_ID", textBox1.Text);
            cmd.ExecuteNonQuery();
            con.Close();
           MessageBox.Show("Successfully Deleted!");
```