2021

PRG521 Summitive

* LAIKIN BARNARD 6955 *

Contents
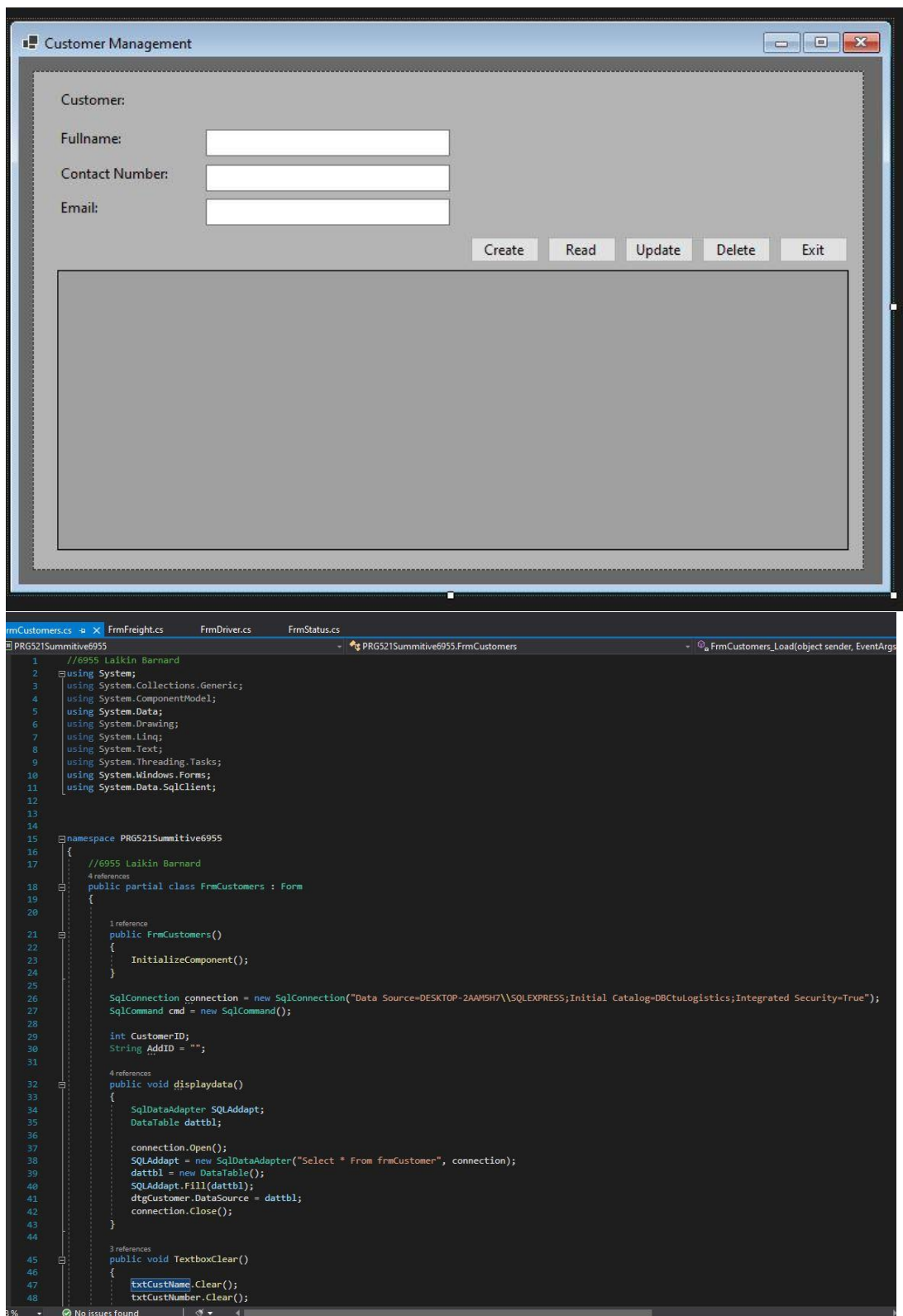
Question 5:

Question 5   10 pts

Form Customer: -Functionality

- Ensure that this form is connected to the DBCtuLogistics. The Create button will insert new data into the Database, the read button will retrieve data from the database and display it on the form, Update button will update a record into the database using the contact number, and the delete button will delete a record into the database using the contact number.

You will have to provide screenshots and the full program showcasing how the program function

Screen shots:


```csharp
//6955 Laikin Barnard
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 PRG521Summitive6955
{
    //6955 Laikin Barnard
    public partial class FrmCustomers : Form
    {

        public FrmCustomers()
        {
            InitializeComponent();
        }

        SqlConnection connection = new SqlConnection("Data Source=DESKTOP-2AAM5H7\\SQLEXPRESS;Initial Catalog=DBCtuLogistics;Integrated Security=True");
        SqlCommand cmd = new SqlCommand();

        int CustomerID;
        String AddID = "";

        public void displaydata()
        {
            SqlDataAdapter SQLAddapt;
            DataTable dattbl;

            connection.Open();
            SQLAddapt = new SqlDataAdapter("Select * From frmCustomer", connection);
            dattbl = new DataTable();
            SQLAddapt.Fill(dattbl);
            dtgCustomer.DataSource = dattbl;
            connection.Close();
        }

        public void TextboxClear()
        {
            txtCustName.Clear();
            txtCustNumber.Clear();
```

```csharp
46              {
47                  txtCustName.Clear();
48                  txtCustNumber.Clear();
49                  txtCustEmail.Clear();
50                  txtCustName.Focus();
51
52              }
53
                1 reference
54              private void btnCreate_Click(object sender, EventArgs e)
55              {
56                  connection.Open();
57
58                  cmd = new SqlCommand("INSERT INTO  frmCustomer (Fullname,ContactNumber,Email,AdressId) " +
59                      "VALUES('" + txtCustName.Text + "', '" + txtCustNumber.Text + "', '" + txtCustEmail.Text + "', 1 )", connection);
60                  cmd.ExecuteNonQuery();
61                  MessageBox.Show("Details Saved Successfully");
62                  connection.Close();
63                  displaydata();
64                  TextboxClear();
65              }
66
                1 reference
67              private void btnRead_Click(object sender, EventArgs e)
68              {
69                  displaydata();
70              }
71
                1 reference
72              private void btnUpdate_Click(object sender, EventArgs e)
73              {
74                  try
75                  {
76                      connection.Open();
77                      cmd = new SqlCommand("Update frmCustomer set Fullname= '" + txtCustName.Text + "',ContactNumber= '" + txtCustNumber.Text + "',Email= '" + txtCustEmail.Text + "', Adr
78                      cmd.ExecuteNonQuery();
79                      MessageBox.Show("Updated");
80                      connection.Close();
81                      displaydata();
82                      TextboxClear();
83                  }
84                  catch (Exception ex)
85                  {
86                      MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
87                  }
88              }
89
                1 reference
90              private void btnDelete_Click(object sender, EventArgs e)
91              {
92                  connection.Open();
93                  cmd = new SqlCommand("delete from frmCustomer where CustomerID = " + CustomerID + "", connection);
```

```csharp
83                  }
84                  catch (Exception ex)
85                  {
86                      MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
87                  }
88              }
89
                1 reference
90              private void btnDelete_Click(object sender, EventArgs e)
91              {
92                  connection.Open();
93                  cmd = new SqlCommand("delete from frmCustomer where CustomerID = " + CustomerID + "", connection);
94                  cmd.ExecuteNonQuery();
95                  MessageBox.Show("Deleted");
96                  connection.Close();
97                  displaydata();
98                  TextboxClear();
99              }
100
101
                1 reference
102             private void btnExit_Click(object sender, EventArgs e)
103             {
104                 Application.Exit();
105             }
106
                1 reference
107             private void dtgCustomer_CellClick(object sender, DataGridViewCellEventArgs e)
108             {
109                 CustomerID = Convert.ToInt32(dtgCustomer.Rows[e.RowIndex].Cells[0].Value.ToString());
110                 txtCustName.Text = dtgCustomer.Rows[e.RowIndex].Cells[1].Value.ToString();
111                 txtCustNumber.Text = dtgCustomer.Rows[e.RowIndex].Cells[2].Value.ToString();
112                 txtCustEmail.Text = dtgCustomer.Rows[e.RowIndex].Cells[3].Value.ToString();
113             }
114
                1 reference
115             private void FrmCustomers_Load(object sender, EventArgs e)
116             {
117                 txtCustName.Focus();
118             }
119         }
120     }
121     //6955 Laikin Barnard
122
```

Code:

```csharp
//6955 Laikin Barnard
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 PRG521Summitive6955
{
    //6955 Laikin Barnard
    public partial class FrmCustomers : Form
    {

        public FrmCustomers()
        {
            InitializeComponent();
        }

        SqlConnection connection = new SqlConnection("Data Source=DESKTOP-
2AAM5H7\\SQLEXPRESS;Initial Catalog=DBCtuLogistics;Integrated Security=True");
        SqlCommand cmd = new SqlCommand();

        int CustomerID;
        String AddID = "";

        public void displaydata()
        {
            SqlDataAdapter SQLAddapt;
            DataTable dattbl;

            connection.Open();
            SQLAddapt = new SqlDataAdapter("Select * From frmCustomer", connection);
            dattbl = new DataTable();
            SQLAddapt.Fill(dattbl);
            dtgCustomer.DataSource = dattbl;
            connection.Close();
        }

        public void TextboxClear()
        {
            txtCustName.Clear();
            txtCustNumber.Clear();
            txtCustEmail.Clear();
            txtCustName.Focus();

        }

        private void btnCreate_Click(object sender, EventArgs e)
        {
            connection.Open();
```

```csharp
            cmd = new SqlCommand("INSERT INTO  frmCustomer
(Fullname,ContactNumber,Email,AdressId) " +
                "VALUES('" + txtCustName.Text + "', '" + txtCustNumber.Text + "', '" +
txtCustEmail.Text + "', 1 )", connection);
            cmd.ExecuteNonQuery();
            MessageBox.Show("Details Saved Successfully");
            connection.Close();
            displaydata();
            TextboxClear();
        }

        private void btnRead_Click(object sender, EventArgs e)
        {
            displaydata();
        }

        private void btnUpdate_Click(object sender, EventArgs e)
        {
            try
            {
                connection.Open();
                cmd = new SqlCommand("Update frmCustomer set Fullname= '" +
txtCustName.Text + "',ContactNumber= '" + txtCustNumber.Text + "',Email= '" +
txtCustEmail.Text + "', AdressID = '" + AddID + "' where CustomerID = '" + CustomerID
+ "'", connection);
                cmd.ExecuteNonQuery();
                MessageBox.Show("Updated");
                connection.Close();
                displaydata();
                TextboxClear();
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK,
MessageBoxIcon.Error);
            }
        }

        private void btnDelete_Click(object sender, EventArgs e)
        {
            connection.Open();
            cmd = new SqlCommand("delete from frmCustomer where CustomerID = " +
CustomerID + "", connection);
            cmd.ExecuteNonQuery();
            MessageBox.Show("Deleted");
            connection.Close();
            displaydata();
            TextboxClear();
        }


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

        private void dtgCustomer_CellClick(object sender, DataGridViewCellEventArgs e)
        {
            CustomerID =
Convert.ToInt32(dtgCustomer.Rows[e.RowIndex].Cells[0].Value.ToString());
            txtCustName.Text = dtgCustomer.Rows[e.RowIndex].Cells[1].Value.ToString();
```

```
            txtCustNumber.Text =
dtgCustomer.Rows[e.RowIndex].Cells[2].Value.ToString();
            txtCustEmail.Text =
dtgCustomer.Rows[e.RowIndex].Cells[3].Value.ToString();
        }

        private void FrmCustomers_Load(object sender, EventArgs e)
        {
            txtCustName.Focus();
        }
    }
}
//6955 Laikin Barnard
```

Results:

Customer Management

Customer:

Fullname: Taylor Rule

Contact Number: 0896546547

Email: TaylorRule@gmail.com

[Create] [Read] [Update] [Delete] [Exit]

	CustomerID	Fullname	ContactNumber	Email	AdressId
	3	Laikin Barnard	0793176158	lkb01za@gmail....	
	4	Brent Mcgill	0814089392	BrentMcgill27...	
▶	7	Taylor R	0896546547	TaylorRule@gm...	1
✱					

Updated

[OK]

```
SqlConnection connection = new SqlConnection("Data Source=DESKTOP-2AAM5H7\\SQLEXPRESS;Initial Catalog=D
```

Customer Management

Customer:

Fullname: Taylor Rule

Contact Number: 0896546547

Email: TaylorRule@gmail.com

[Create] [Read] [Update] [Delete] [Exit]

	CustomerID	Fullname	ContactNumber	Email	AdressId
	3	Laikin Barnard	0793176158	lkb01za@gmail....	
	4	Brent Mcgill	0814089392	BrentMcgill27...	
▶	7	Taylor Rule	0896546547	TaylorRule@gm...	
✱					

```
SqlConnection connection = new SqlConnection("Data Source=DESKTOP-2AAM5H7\\SQLEXPRESS;Initial Catalog=
```

Customer Management

Customer:

Fullname: Taylor Rule

Contact Number: 0896546547

Email: TaylorRule@gmail.com

Create | Read | Update | Delete | Exit

	CustomerID	Fullname	ContactNumber	Email	AdressId
	3	Laikin Barnard	0793176158	lkb01za@gmail....	
	4	Brent Mcgill	0814089392	BrentMcgill27...	
▶	7	Taylor Rule	0896546547	TaylorRule@gm...	
*					

Deleted

OK

SqlConnection connection = new SqlConnection("Data Source=DESKTOP-2AAM5H7\\SQLEXPRESS;Initial Catalog

---

Customer Management

Customer:

Fullname: |

Contact Number:

Email:

Create | Read | Update | Delete | Exit

	CustomerID	Fullname	ContactNumber	Email	AdressId
▶	3	Laikin Barnard	0793176158	lkb01za@gmail....	
	4	Brent Mcgill	0814089392	BrentMcgill27...	
*					

SqlConnection connection = new SqlConnection("Data Source=DESKTOP-2AAM5H7\\SQLEXPRESS;Initial Catalog