

2021

# PRG521 Summative

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## Question 7:



### Question 7

10 pts

#### **Form Driver: -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 full name, and the delete button will delete a record into the database using full name.

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

Upload

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Screen shots:

The screenshot shows a Windows application window titled "Driver Information". Inside the window, there is a section labeled "Driver Information:". Below this label, there are three input fields: "Full Name:" followed by a text box, "License Type:" followed by a dropdown menu, and "Owner:" followed by two radio buttons labeled "Yes" and "No". Below these fields, there are five buttons: "Create", "Read", "Update", "Delete", and "Exit". At the bottom of the form area, there is a large, empty rectangular box, likely intended for a list of drivers or additional data.

```
1 //6955 Laikin Barnard
2 using System;
3 using System.Collections.Generic;
4 using System.ComponentModel;
5 using System.Data;
6 using System.Drawing;
7 using System.Linq;
8 using System.Text;
9 using System.Threading.Tasks;
10 using System.Windows.Forms;
11 using System.Data.SqlClient;
12
13
14 namespace PRG521Summative6955
15 {
16     //6955 Laikin Barnard
17     public partial class FrmDriver : Form
18     {
19         public FrmDriver()
20         {
21             InitializeComponent();
22         }
23
24         SqlConnection connection = new SqlConnection("Data Source=DESKTOP-2AAMSH7\\SQLEXPRESS;Initial Catalog=DBCtuLogistics;Integrated Security=True");
25         SqlCommand cmd = new SqlCommand();
26         int DriverID;
27
28         public void displaydata()
29         {
30             SqlDataAdapter SQLAdapt;
31             DataTable dattbl;
32
33             connection.Open();
34             SQLAdapt = new SqlDataAdapter("Select * From frmDriver", connection);
35             dattbl = new DataTable();
36             SQLAdapt.Fill(dattbl);
37             dtgDriver.DataSource = dattbl;
38             connection.Close();
39         }
40
41         public void TextboxClear()
42         {
43             txtDFullName.Clear();
44             cmbLicenseType.Text = "";
45             txtDFullName.Focus();
46         }
47
48     }
49 }
```

```
FrmDriver.cs  FrmStatus.cs  FrmCustomers.cs  FrmFreight.cs
PRG521Summitive6955
46
47
48 1 reference
49 private void btnCreate_Click(object sender, EventArgs e)
50 {
51     string Owner = "";
52     bool isChecked = rbtnOYes.Checked;
53     if (isChecked)
54         Owner = rbtnOYes.Text;
55     else
56         Owner = rbtnONo.Text;
57
58     connection.Open();
59     cmd = new SqlCommand("INSERT INTO frmDriver (FullName, LicenseType, Owner) " +
60         "VALUES('" + txtDFullName.Text + "', '" + cmbLicenseType.Text + "', '" + Owner + "')", connection);
61     cmd.ExecuteNonQuery();
62     MessageBox.Show("Details Saved Successfully");
63     connection.Close();
64     displaydata();
65     TextboxClear();
66 }
67
68 1 reference
69 private void btnRead_Click(object sender, EventArgs e)
70 {
71     displaydata();
72 }
73
74 1 reference
75 private void btnUpdate_Click(object sender, EventArgs e)
76 {
77     string Owner = "";
78     bool isChecked = rbtnOYes.Checked;
79     if (isChecked)
80         Owner = rbtnOYes.Text;
81     else
82         Owner = rbtnONo.Text;
83
84     try
85     {
86         connection.Open();
87         cmd = new SqlCommand("Update frmDriver set FullName= '" + txtDFullName.Text + "',LicenseType = '" + cmbLicenseType.Text + "',Owner = '" + Owner + "' where DriverID = " +
88             txtDriverID.Text, connection);
89         cmd.ExecuteNonQuery();
90         MessageBox.Show("Updated");
91         connection.Close();
92         displaydata();
93         TextboxClear();
94     }
95     catch (Exception ex)
96     {
97         MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
98     }
99 }
100
101 98 %  No Issues Found  Lnc 18  Ch: 6  SPC  CRLF
```

```
FrmDriver.cs  FrmStatus.cs  FrmCustomers.cs  FrmFreight.cs
PRG521Summitive6955
92 {
93     MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
94 }
95 }
96
97 1 reference
98 private void btnDelete_Click(object sender, EventArgs e)
99 {
100     connection.Open();
101     cmd = new SqlCommand("delete from frmDriver where DriverID = " + DriverID + "", connection);
102     cmd.ExecuteNonQuery();
103     MessageBox.Show("Deleted");
104     connection.Close();
105     displaydata();
106     TextboxClear();
107 }
108
109 1 reference
110 private void btnExit_Click(object sender, EventArgs e)
111 {
112     Application.Exit();
113 }
114
115 1 reference
116 private void dtgDriver_CellClick(object sender, DataGridViewCellEventArgs e)
117 {
118     string Owner = "";
119     bool isChecked = rbtnOYes.Checked;
120     if (isChecked)
121         Owner = rbtnOYes.Text;
122     else
123         Owner = rbtnONo.Text;
124
125     DriverID = Convert.ToInt32(dtgDriver.Rows[e.RowIndex].Cells[0].Value.ToString());
126     txtDFullName.Text = dtgDriver.Rows[e.RowIndex].Cells[1].Value.ToString();
127     Owner = dtgDriver.Rows[e.RowIndex].Cells[3].Value.ToString();
128     cmbLicenseType.Text = dtgDriver.Rows[e.RowIndex].Cells[2].Value.ToString();
129 }
130
131 1 reference
132 private void FrmDriver_Load(object sender, EventArgs e)
133 {
134     txtDFullName.Focus();
135 }
136
137 //6955 Laikin Barnard
138
```

Code:

```
//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 FrmDriver : Form
    {
        public FrmDriver()
        {
            InitializeComponent();

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

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

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

            public void TextboxClear()
            {
                txtDFullname.Clear();
                cmbLicenseType.Text = "";
                txtDFullname.Focus();
            }

            private void btnCreate_Click(object sender, EventArgs e)
            {
                String Owner = "";
                bool isChecked = rbtnOYes.Checked;
                if (isChecked)
                    Owner = rbtnOYes.Text;
                else
                    Owner = rbtnONo.Text;

                connection.Open();
                cmd = new SqlCommand("INSERT INTO frmDriver (FullName, LicenseType, Owner)
" +
```

```

        "VALUES('" + txtDFullname.Text + "', '" + cmbLicenseType.Text + "', '"
+ Owner + "')", 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)
    {
        string Owner = "";
        bool isChecked = rbtnOYes.Checked;
        if (isChecked)
            Owner = rbtnOYes.Text;
        else
            Owner = rbtnONo.Text;

        try
        {
            connection.Open();
            cmd = new SqlCommand("Update frmDriver set FullName= '" +
txtDFullname.Text + "',LicenseType = '" + cmbLicenseType.Text + "',Owner = '" + Owner
+ "' where DriverID = '" + DriverID + "'", 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 frmDriver where DriverID = " + DriverID
+ "", connection);
        cmd.ExecuteNonQuery();
        MessageBox.Show("Deleted");
        connection.Close();
        displaydata();
        TextboxClear();
    }

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

    private void dtgDriver_CellClick(object sender, DataGridViewCellEventArgs e)
    {
        string Owner = "";

```

```

        bool isChecked = rbtnOYes.Checked;
        if (isChecked)
            Owner = rbtnOYes.Text;
        else
            Owner = rbtnONo.Text;

        DriverID =
        Convert.ToInt32(dtgDriver.Rows[e.RowIndex].Cells[0].Value.ToString());
        txtDFullname.Text = dtgDriver.Rows[e.RowIndex].Cells[1].Value.ToString();
        Owner = dtgDriver.Rows[e.RowIndex].Cells[3].Value.ToString();
        cmbLicenseType.Text =
        dtgDriver.Rows[e.RowIndex].Cells[2].Value.ToString();
    }

    private void FrmDriver_Load(object sender, EventArgs e)
    {
        txtDFullname.Focus();
    }
}
//6955 Laikin Barnard

```



Results:

Driver Information

Driver Information:

Full Name:

Lisa M

License Type:

EB Articulated vehicles

Owner:

☐ Yes

☒ No

Create

Read

Update

Delete

Exit

	DriverID	FullName	LicenseType
	1	Danie Barnard	C Buses and
▶	5	Lisa M	EB Articulate
	3	Taylor Rule	B Vehicles
*			

Driver Information

Driver Information:

Full Name:

Lisa M

License Type:

B Vehicles

Owner:

☒ Yes

☐ No

Create

Read

Update

Delete

Exit

	Name	LicenseType	Owner
	e Barnard	C Buses and go...	No
▶	M	EB Articulated v...	No
	r Rule	B Vehicles	Yes
*			

Updated

OK

Driver Information

Driver Information:

Full Name:

License Type:

Owner: ☒ Yes ☐ No

Create Read Update Delete Exit

	Name	LicenseType	Owner
	e Barnard	C Buses and go...	No
▶	M	B Vehicles	Yes
	r Rule	B Vehicles	Yes
*			

Driver Information

Driver Information:

Full Name:

License Type:

Owner: ☒ Yes ☐ No

Create Read Update Delete Exit

	Name	LicenseType	Owner
	e Barnard	C Buses and go...	No
▶	M	B Vehicles	Yes
	r Rule	B Vehicles	Yes
*			

Deleted

OK

Driver Information

Driver Information:

Full Name:

License Type:

Owner:

☒ Yes

☐ No

Create

Read

Update

Delete

Exit

	DriverID	FullName	LicenseType
▶	1	Danie Barnard	C Buses and
	3	Taylor Rule	B Vehicles
*			

< >