

6854 Brandon de Bruyn

PRG521 SA Q7

CODE:

```
public partial class Driver : Form
{
    string RadioButtonTest;

    // Connection String established here for later use
    public string connectionString = @"Data Source=DESKTOP-A9EC70F; Initial
Catalog=DBCtuLogistics;Integrated Security=True";
    SqlCommand formCommand = new SqlCommand();
    SqlDataAdapter adapt;

    public Driver()
    {
        InitializeComponent();
        ComboBoxItems();
        showData();
    }
    // Method to display the data on the data grid view
    private void showData()
    {
        using (SqlConnection connect = new SqlConnection(connectionString))
        {
            connect.Open();

            DataTable Table = new DataTable();
            adapt = new SqlDataAdapter("SELECT * FROM [DBCtuLogistics].[dbo].[Driver]",
connect);
            adapt.Fill(Table);
            dataGridView1.DataSource = Table;
            connect.Close();

        }
    }
    // Method to clear the text boxes after it's been used in the create, update or delete button
    private void ClearTextBoxes()
    {
        FullNameTxtbox.Text = "";
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        LicenseTypeCombox.Text = "";
        YesRadioBtn.Checked = false;
        NoRadioBtn.Checked = false;
    }
    // Method to add combo box items to combo box
    private void ComboBoxItems()
    {
        LicenseTypeCombox.Items.Add("Code 1");
        LicenseTypeCombox.Items.Add("Code 2");
        LicenseTypeCombox.Items.Add("Code 3");
    }

    // // Displays the content to string on data grid view
    private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs
e)
    {
        FullNameTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[1].Value.ToString();
        LicenseTypeCombox.Text = dataGridView1.Rows[e.RowIndex].Cells[2].Value.ToString();
    }

    // Create button created here
    private void CreateBtn_Click(object sender, EventArgs e)
    {
        SqlConnection connect = new SqlConnection(connectionString);
        connect.Open();

        if (FullNameTxtbox.Text != "" && LicenseTypeCombox.Text != "")
        {
            SqlCommand formCommand = new SqlCommand("Insert into Driver(FullName,
LicenseType, Owner) values (@Fullname, @LicenseType, @Owner)", connect);

            formCommand.Connection = connect;

            formCommand.Parameters.AddWithValue("@FullName", FullNameTxtbox.Text);
            formCommand.Parameters.AddWithValue("@LicenseType",
LicenseTypeCombox.GetItemText(LicenseTypeCombox.SelectedItem));

            if (YesRadioBtn.Checked)
                formCommand.Parameters.AddWithValue("@Owner", "Yes");
            else
                formCommand.Parameters.AddWithValue("@Owner", "No");

            formCommand.ExecuteNonQuery();
            connect.Close();

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        MessageBox.Show("Your record has been saved.");

        showData();
        ClearTextBoxes();

    }
    else
    {
        MessageBox.Show("Missing some or all fields. Please fill in all the fields");
    }
}

// Read button created here
private void ReadBtn_Click(object sender, EventArgs e)
{
    SqlConnection connect = new SqlConnection(connectionString);
    formCommand.Connection = connect;

    if (FullNameTxtbox.Text != "")
    {
        formCommand = new SqlCommand("Select FullName, LicenseType, Owner from
Driver where FullName=@FullName", connect);

        formCommand.CommandType = CommandType.Text;
        formCommand.Connection = connect;
        connect.Open();

        formCommand.Parameters.AddWithValue("@FullName", FullNameTxtbox.Text);

        SqlDataReader reader = formCommand.ExecuteReader();
        reader.Read();

        FullNameTxtbox.Text = reader["FullName"].ToString();
        LicenseTypeCombox.Text = reader["LicenseType"].ToString();
        RadioButtonTest = reader["Owner"].ToString();

        if (RadioButtonTest == "Yes")
        {
            YesRadioBtn.Checked = true;
        }
        else
        {
            NoRadioBtn.Checked = true;
        }
    }
}

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    }

    connect.Close();
}
else
{
    MessageBox.Show("No Full Name entered. Please enter a Full Name.");
}
}

// Update button created here
private void UpdateBtn_Click(object sender, EventArgs e)
{
    SqlConnection connect = new SqlConnection(connectionString);
    formCommand.Connection = connect;

    if (FullNameTextbox.Text != "" && LicenseTypeCombox.Text != "")
    {
        formCommand = new SqlCommand("update Driver set FullName=@FullName,
LicenseType=@LicenseType, Owner=@Owner where FullName=@FullName", connect);
        formCommand.Connection = connect;
        connect.Open();

        formCommand.Parameters.AddWithValue("@FullName", FullNameTextbox.Text);
        formCommand.Parameters.AddWithValue("@LicenseType",
LicenseTypeCombox.Text);

        if (YesRadioBtn.Checked)
            formCommand.Parameters.AddWithValue("@Owner", "Yes");
        else
            formCommand.Parameters.AddWithValue("@Owner", "No");

        formCommand.ExecuteNonQuery();
        MessageBox.Show("Your record has been updated");
        connect.Close();
        showData();
        ClearTextBoxes();

    }
    else
    {
        MessageBox.Show("No record selected. Please select a record update with Full
Name.");
    }
}

```

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    }

    // Delete button created here
    private void DeleteBtn_Click(object sender, EventArgs e)
    {
        SqlConnection connect = new SqlConnection(connectionString);
        formCommand.Connection = connect;

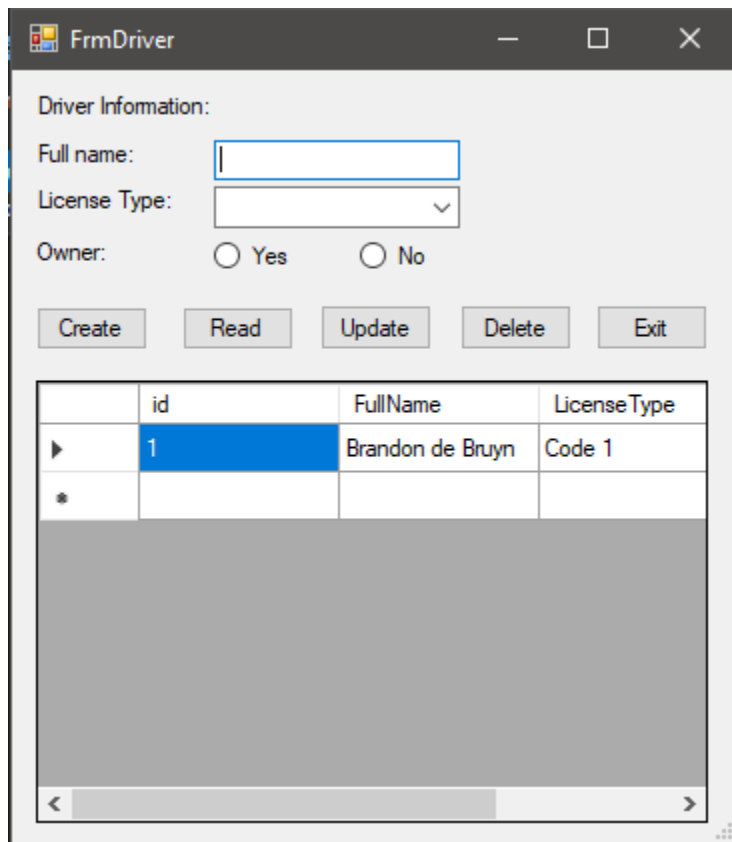
        if (FullNameTxtbox.Text != "")
        {
            formCommand = new SqlCommand("delete Driver where FullName = @FullName",
connect);
            connect.Open();
            formCommand.Parameters.AddWithValue("@FullName", FullNameTxtbox.Text);
            formCommand.ExecuteNonQuery();
            connect.Close();
            MessageBox.Show("Record has been deleted.");
            showData();
            ClearTextBoxes();
        }
        else
        {
            MessageBox.Show("No Full Name entered. Enter a Full Name to delete a row.");
        }
    }

    // Exit button created here
    // Returns user to main menu
    private void ExitBtn_Click(object sender, EventArgs e)
    {
        this.Hide();
    }

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

```

SCEENSHOTS:



The screenshot shows a Windows application window titled "FrmDriver". The window contains a "Driver Information:" section with the following controls:

- "Full name:" followed by a text input field.
- "License Type:" followed by a dropdown menu.
- "Owner:" followed by two radio buttons labeled "Yes" and "No".

Below the form controls are five buttons: "Create", "Read", "Update", "Delete", and "Exit".

At the bottom of the window is a table with the following data:

	id	FullName	LicenseType
▶	1	Brandon de Bruyn	Code 1
*			

The table is followed by a large gray rectangular area, likely a placeholder for more data or a scrollable list. At the bottom of the table area are navigation arrows: "<" and ">".

FrmDriver

Driver Information:

Full name: Jason de Bruyn

License Type: Code 2

Owner: ☒ Yes ☐ No

Create Read Update Delete Exit

	id	FullName	LicenseType
▶	1	Brandon de Bruyn	Code 1
*			

Your record has been saved.

OK

FrmDriver

Driver Information:

Full name: Brandon de Bruyn

License Type: Code 1

Owner: ☐ Yes ☐ No

Create Read Update Delete Exit

	id	FullName	LicenseType
▶	1	Brandon de Bruyn	Code 1
	2	Jason de Bruyn	Code 2
*			

Record has been deleted.

OK

FrmDriver

Driver Information:

Full name: Jason de Bruyn

License Type: Code 2

Owner: ☐ Yes ☒ No

Create Read Update Delete Exit

	FullName	LicenseType	Owner
▶	Jason de Bruyn	Code 2	Yes
*			

Your record has been updated

OK