6854 Brandon de Bruyn

PRG521 SA Q5

CODE:

```
public partial class Customer : Form
  {
    int ContactNumber = 0;

    // 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 Customer()
    {
      InitializeComponent();
      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].[Customer]",
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()
    {
```

```csharp
            FullNameTxtbox.Text = "";
            ContactNumberTxtBox.Text = "";
            EmailTxtbox.Text = "";
        }
        // 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();
            ContactNumberTxtBox.Text = dataGridView1.Rows[e.RowIndex].Cells[2].Value.ToString();
            EmailTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[3].Value.ToString();
        }
        // Create button created here
        private void CreateBtn_Click(object sender, EventArgs e)
        {
            SqlConnection connect = new SqlConnection(connectionString);
            connect.Open();

            if (FullNameTxtbox.Text != "" && ContactNumberTxtBox.Text != "" && EmailTxtbox.Text != "")
            {
                SqlCommand formCommand = new SqlCommand("Insert into Customer(FullName, ContactNumber, Email) values (@Fullname, @ContactNumber, @Email)", connect);

                formCommand.Connection = connect;

                formCommand.Parameters.AddWithValue("@FullName", FullNameTxtbox.Text);
                formCommand.Parameters.AddWithValue("@ContactNumber", ContactNumberTxtBox.Text);
                formCommand.Parameters.AddWithValue("@Email", EmailTxtbox.Text);

                formCommand.ExecuteNonQuery();
                connect.Close();
                MessageBox.Show("Your record has been saved.");

                showData();
                ClearTextBoxes();

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

```csharp
        }

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

            if (ContactNumberTxtBox.Text != "")
            {
                int Find = Convert.ToInt32(ContactNumberTxtBox.Text);
                formCommand = new SqlCommand("Select FullName, ContactNumber, Email from
Customer where ContactNumber =" + Find);

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

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

                FullNameTxtbox.Text = reader["FullName"].ToString();
                ContactNumberTxtBox.Text = reader["ContactNumber"].ToString();
                EmailTxtbox.Text = reader["Email"].ToString();

                connect.Close();
            }
            else
            {
                MessageBox.Show("No Contact Number entered. Please enter a Contact Number.");
            }
        }
        // Update button created
        private void UpdateBtn_Click(object sender, EventArgs e)
        {
            SqlConnection connect = new SqlConnection(connectionString);
            formCommand.Connection = connect;

            if (FullNameTxtbox.Text != "" && ContactNumberTxtBox.Text != "" && EmailTxtbox.Text
!= "")
            {
                formCommand = new SqlCommand("update Customer set FullName=@FullName,
ContactNumber=@ContactNumber, Email=@Email where ContactNumber=@ContactNumber",
connect);
```

```csharp
            formCommand.Connection = connect;
            connect.Open();

            formCommand.Parameters.AddWithValue("@FullName", FullNameTxtbox.Text);
            formCommand.Parameters.AddWithValue("@ContactNumber",
ContactNumberTxtBox.Text);
            formCommand.Parameters.AddWithValue("@Email", EmailTxtbox.Text);
            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 Contact
Number.");
        }
    }
    // Delete button created
    private void DeleteBtn_Click(object sender, EventArgs e)
    {
        SqlConnection connect = new SqlConnection(connectionString);
        formCommand.Connection = connect;

        ContactNumber = Convert.ToInt32(ContactNumberTxtBox.Text);
        if (ContactNumber != 0)
        {
            formCommand = new SqlCommand("delete Customer where ContactNumber =
@ContactNumber", connect);
            connect.Open();
            formCommand.Parameters.AddWithValue("@ContactNumber", ContactNumber);
            formCommand.ExecuteNonQuery();
            connect.Close();
            MessageBox.Show("Record has been deleted.");
            showData();
            ClearTextBoxes();
        }
        else
        {
            MessageBox.Show("No record selected. Select a record to delete with Contact
Number.");
        }
```

```csharp
        }

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

        private void Customer_Load(object sender, EventArgs e)
        {

        }
    }
```
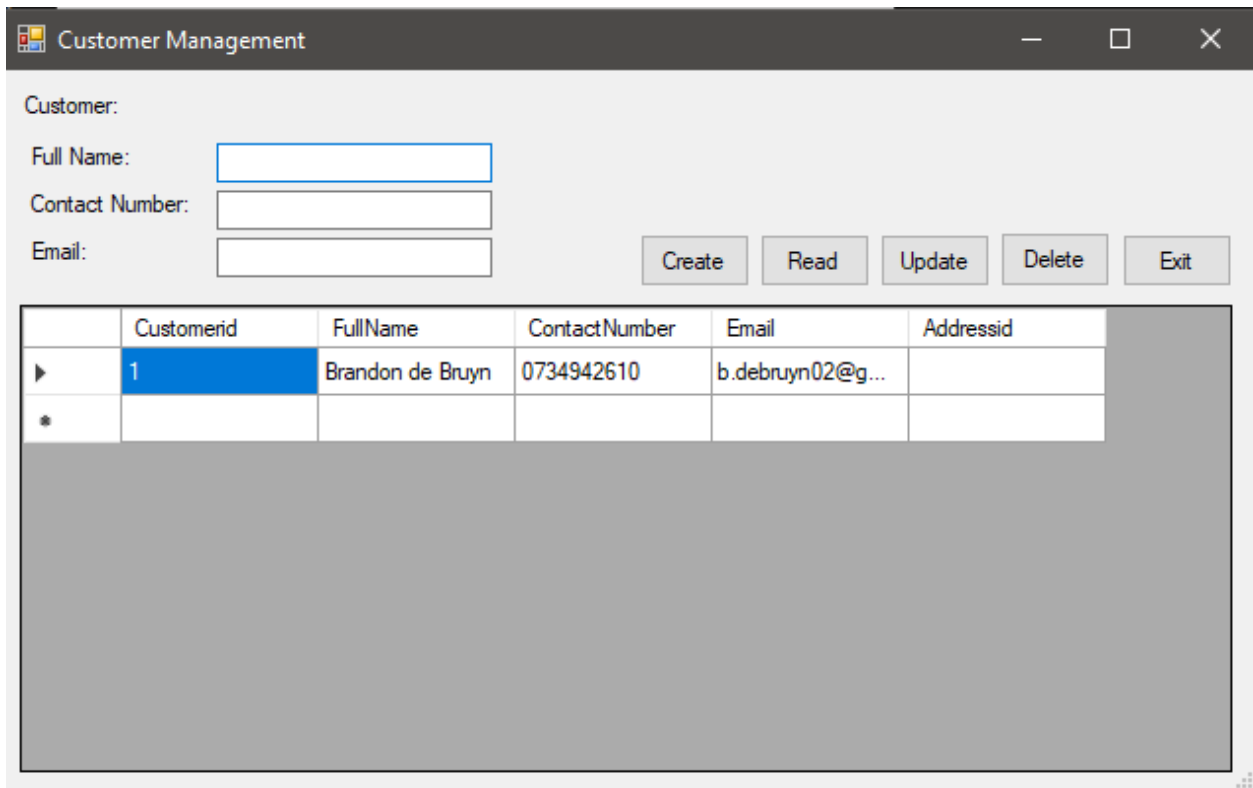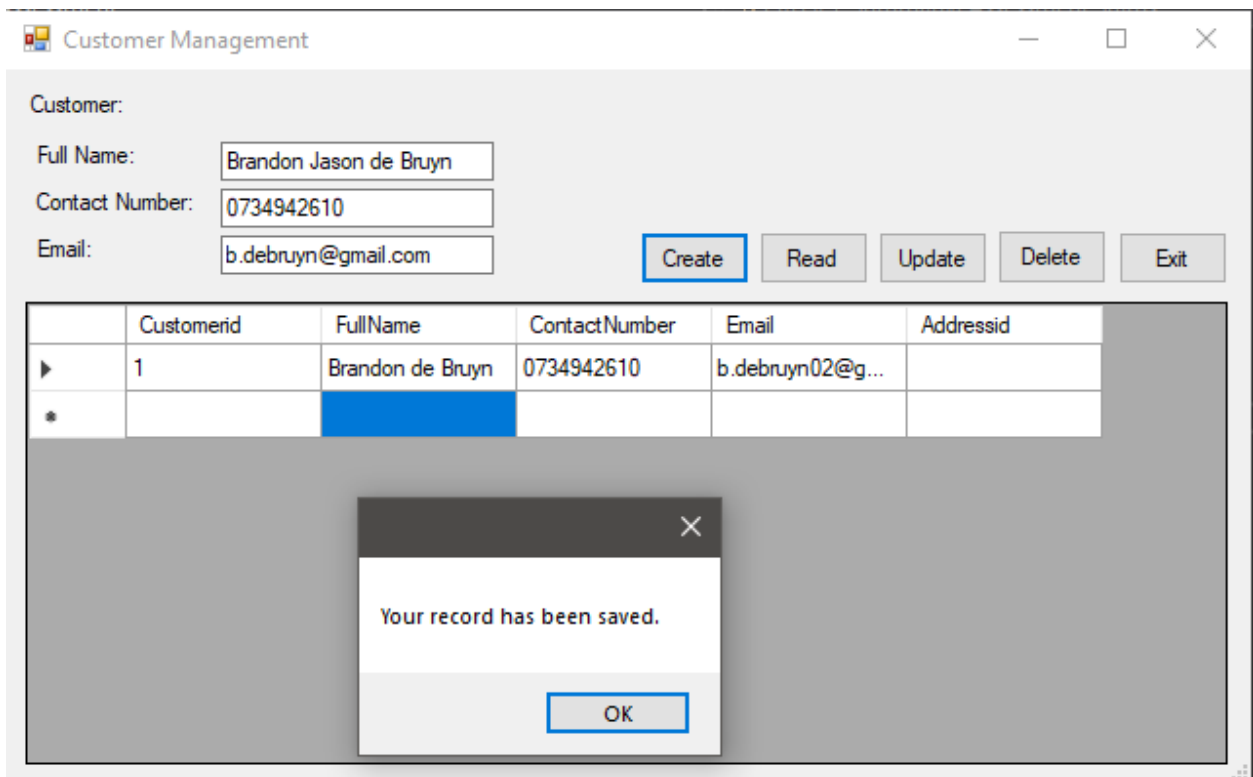
SCEENSHOTS:

Customer Management

Customer:

Full Name: | Brandon de Bruyn
Contact Number: | 0734942610
Email: | b.debruyn02@gmail.com

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

	Customerid	FullName	ContactNumber	Email	Addressid
▶	1	Brandon de Bruyn	0734942610	b.debruyn02@g...	
	2	Brandon Jason d...	0734942610	b.debruyn@gmail...	
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✕

Record has been deleted.

[OK]