

# 6854 Brandon de Bruyn

## PRG521 SA Q6

### CODE:

```
public partial class Freight : Form
{
    int CustomerNumber = 0;

    // Connecton 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 Freight()
    {
        InitializeComponent();
        ComboBoxItems();
        showData();
    }

    // Method to add items to combo box
    private void ComboBoxItems()
    {
        StatusCombox.Items.Add("Delivered");
        StatusCombox.Items.Add("Not Delivered");
        StatusCombox.Items.Add("En Route");
    }

    // Method to show data from database in 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].[Freight]",
connect);
            adapt.Fill(Table);
```

```

        dataGridView1.DataSource = Table;
        connect.Close();

    }
}
// Method to clear all text boxes after use
private void ClearTextBoxes()
{
    CustomerNmbrTxtbox.Text = "";
    HeightTxtbox.Text = "";
    LengthTxtbox.Text = "";
    WeightTxtbox.Text = "";
    DestinationTxtbox.Text = "";
    OriginAddressTxtbox.Text = "";
    StatusCombox.Text = "Status:";
}

// Displays the content to string on data grid view
private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs
e)
{
    CustomerNmbrTxtbox.Text =
dataGridView1.Rows[e.RowIndex].Cells[1].Value.ToString();
    HeightTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[2].Value.ToString();
    LengthTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[3].Value.ToString();
    WeightTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[4].Value.ToString();
    DestinationTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[5].Value.ToString();
    StatusCombox.Text = dataGridView1.Rows[e.RowIndex].Cells[6].Value.ToString();
    OriginAddressTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[7].Value.ToString();
    DatePicker.Text = dataGridView1.Rows[e.RowIndex].Cells[8].Value.ToString();
}

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

    if (CustomerNmbrTxtbox.Text != "" && HeightTxtbox.Text != "" && LengthTxtbox.Text !=
"" && WeightTxtbox.Text != "" && DestinationTxtbox.Text != "" && OriginAddressTxtbox.Text !=
"")
    {
        SqlCommand formCommand = new SqlCommand("Insert into
Freight(CustomerNumber, Height, Weight, Lenght, DestinationAddressId, StatusId,

```

```
OriginAddressId, Date) values (@CustomerNumber, @Height, @Weight, @Length,  
@DestinationAddressId, @StatusId, @OriginAddressId, @Date)", connect);
```

```
formCommand.Connection = connect;
```

```
formCommand.Parameters.AddWithValue("@CustomerNumber",  
CustomerNmbrTxtbox.Text);  
formCommand.Parameters.AddWithValue("@Height", HeightTxtbox.Text);  
formCommand.Parameters.AddWithValue("@Length", LengthTxtbox.Text);  
formCommand.Parameters.AddWithValue("@Weight", WeightTxtbox.Text);  
formCommand.Parameters.AddWithValue("@DestinationAddressId",  
DestinationTxtbox.Text);  
formCommand.Parameters.AddWithValue("@StatusId",  
StatusCombox.GetItemText(StatusCombox.SelectedItem));  
formCommand.Parameters.AddWithValue("@OriginAddressId",  
OriginAddressTxtbox.Text);  
formCommand.Parameters.AddWithValue("@Date", DatePicker.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");  
}  
}
```

```
// Read button created here
```

```
private void ReadBtn_Click(object sender, EventArgs e)  
{  
    SqlConnection connect = new SqlConnection(connectionString);  
    formCommand.Connection = connect;  
  
    if (CustomerNmbrTxtbox.Text != "")  
    {  
        int Find = Convert.ToInt32(CustomerNmbrTxtbox.Text);  
        formCommand = new SqlCommand("Select CustomerNumber, Height, Weight,  
Length, DestinationAddressId, StatusId, OriginAddressId, Date from Freight where  
CustomerNumber =" + Find);
```

```

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

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

CustomerNmbrTxtbox.Text = reader["CustomerNumber"].ToString();
HeightTxtbox.Text = reader["Height"].ToString();
LengthTxtbox.Text = reader["Length"].ToString();
WeightTxtbox.Text = reader["Weight"].ToString();
DestinationTxtbox.Text = reader["DestinationAddressId"].ToString();
StatusCombox.Text = reader["StatusId"].ToString();
OriginAddressTxtbox.Text = reader["OriginAddressId"].ToString();
DatePicker.Text = reader["Date"].ToString();

connect.Close();

}
else
{
    MessageBox.Show("No Customer Number entered. Please enter a Customer
Number.");
}
}

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

    if (CustomerNmbrTxtbox.Text != "" && HeightTxtbox.Text != "" && LengthTxtbox.Text !=
"" && WeightTxtbox.Text != "" && DestinationTxtbox.Text != "" && OriginAddressTxtbox.Text !=
"")
    {
        formCommand = new SqlCommand("update Freight set
CustomerNumber=@CustomerNumber, Height=@Height, Lenght=@Length, Weight=@Weight,
DestinationAddressId=@DestinationAddressId, StatusId=@StatusId,
OriginAddressId=@OriginAddressId, Date=@Date where
CustomerNumber=@CustomerNumber", connect);
        formCommand.Connection = connect;
        connect.Open();
    }
}

```

```

        formCommand.Parameters.AddWithValue("@CustomerNumber",
CustomerNmbrTxtbox.Text);
        formCommand.Parameters.AddWithValue("@Height", HeightTxtbox.Text);
        formCommand.Parameters.AddWithValue("@Length", LengthTxtbox.Text);
        formCommand.Parameters.AddWithValue("@Weight", WeightTxtbox.Text);
        formCommand.Parameters.AddWithValue("@DestinationAddressId",
DestinationTxtbox.Text);
        formCommand.Parameters.AddWithValue("@StatusId",
StatusCombox.GetItemText(StatusCombox.SelectedItem));
        formCommand.Parameters.AddWithValue("@OriginAddressId",
OriginAddressTxtbox.Text);
        formCommand.Parameters.AddWithValue("@Date", DatePicker.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 Customer
Number.");
    }
}

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

    CustomerNumber = Convert.ToInt32(CustomerNmbrTxtbox.Text);

    if (CustomerNumber != 0)
    {
        formCommand = new SqlCommand("delete Freight where CustomerNumber =
@CustomerNumber", connect);
        connect.Open();
        formCommand.Parameters.AddWithValue("@CustomerNumber", CustomerNumber);
        formCommand.ExecuteNonQuery();
    }
}

```

```

        connect.Close();
        MessageBox.Show("Record has been deleted.");
        showData();
        ClearTextBoxes();
    }
    else
    {
        MessageBox.Show("No record selected. Select a record to delete with Customer
Number.");
    }
}

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

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

```

## SCEENSHOTS:

**FrmFreight**

Freight Information

Customer Number:

Height:

Length:

Weight:

Destination:

Status:

Origin Address:

Date:

	id	Customerid	Height	Weight	Lenght	DestinationAc
▶	4		20,00	60,00	10,00	52
*						

< >

FrmFreight

Freight Information

Customer Number: 12 Status: En Route

Height: 20,00 Origin Address: IDK

Length: 45,00 Date: 2020/05/02

Weight: 10,00

Destination: 52

Create Read Update Delete Exit

	id	Customerid	Height	Weight	Lenght	DestinationAd
▶	4		20,00	60,00	10,00	52
	1004		45,00	2,00	6,00	1
*						

Record has been deleted.

OK



## Freight Information

Customer Number: 80  
Height: 45  
Length: 6  
Weight: 2  
Destination: 1

Status: En Route  
Origin Address: Lolz  
Date: 2020/05/02

Create

Read

Update

Delete

Exit

	id	Customerid	Height	Weight	Lenght	DestinationAd
►	4		20,00	60,00	10,00	52
*						

Your record has been saved.

OK

FrmFreight

Freight Information

Customer Number:  Status:

Height:  Origin Address:

Length:  Date:

Weight:

Destination:

	Weight	Lenght	DestinationAddress	Date	OriginAddressid	Statusid
►	2.00	6.00	1	2020/05/02	Lolz	En Route
*						

Your record has been updated

OK