

2021

# PRG521 Summative

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## Question 6:



### Question 6

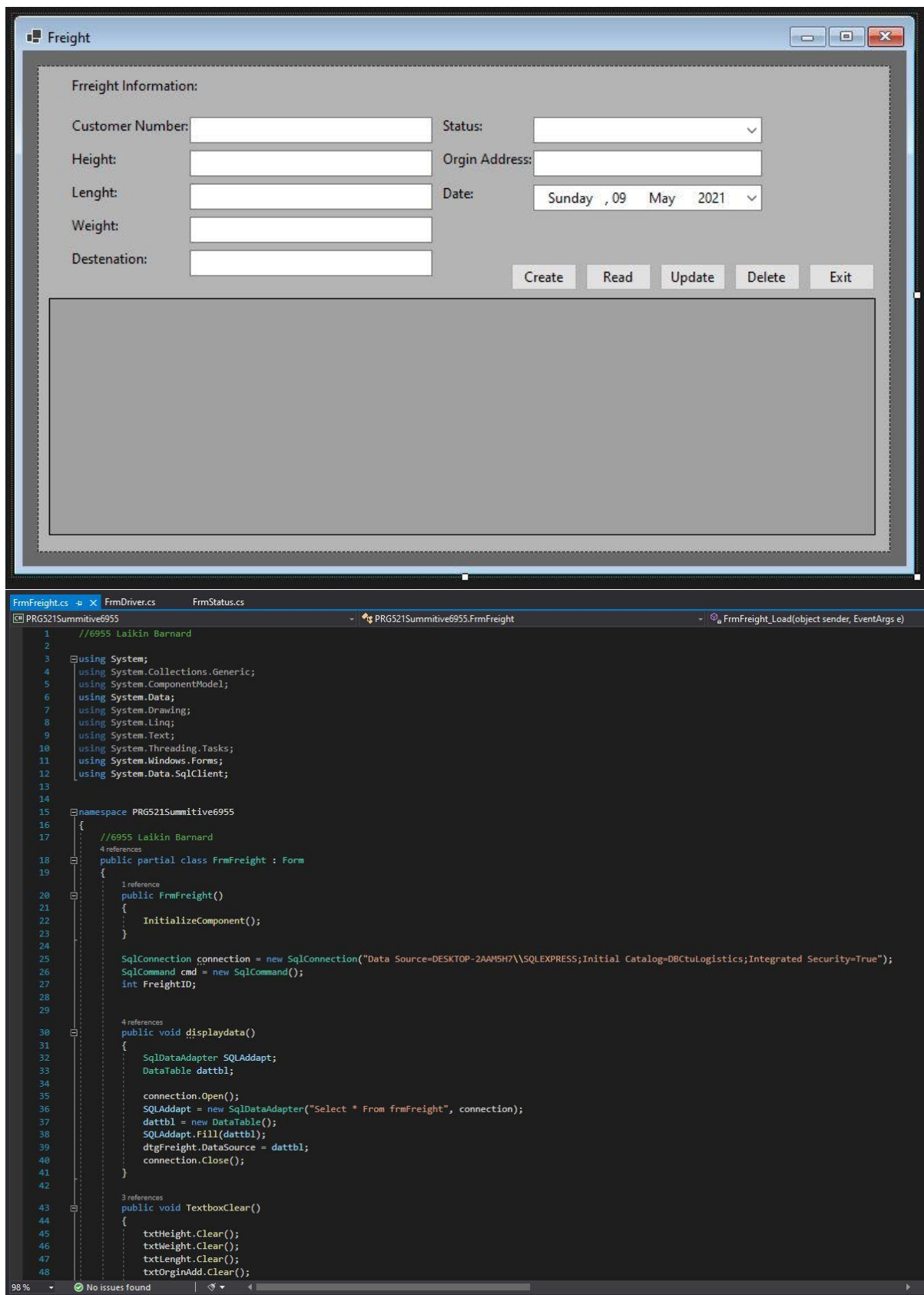
10 pts

#### *Form Freight: -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 customer number, and the delete button will delete a record into the database using customer number.

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

## Screen shots:



```
FrmFreight.cs  FrmDriver.cs  FrmStatus.cs
PRG521Summitive6955  PRG521Summitive6955.FrmFreight  FrmFreight_Load(object sender, EventArgs e)

46      txtWeight.Clear();
47      txtLenght.Clear();
48      txtOrginAdd.Clear();
49      txtDest.Clear();
50      txtCustNum.Clear();
51      cmbStatus.Text = "";
52      txtCustNum.Focus();
53
54  }
55
56  1 reference
57  private void btnCreate_Click(object sender, EventArgs e)
58  {
59      var dates = dtpFreight.Value.ToShortDateString();
60
61      connection.Open();
62      cmd = new SqlCommand("INSERT INTO frmFreight (CustomerID,Height,Weight,Lenght,DestanationAddressID,OrginAddressID,StatusID,FreightDate)" +
63          "VALUES(" + 2 + "," + txtHeight.Text + "," + txtWeight.Text + "," + txtLenght.Text + "," + txtDest.Text + "," + txtOrginAdd.Text + "," + cmbStatus.Te
64      cmd.ExecuteNonQuery();
65      MessageBox.Show("Address Details Saved Successfully");
66      connection.Close();
67      displaydata();
68      TextboxClear();
69  }
70
71  1 reference
72  private void btnRead_Click(object sender, EventArgs e)
73  {
74      displaydata();
75  }
76
77  1 reference
78  private void btnUpdate_Click(object sender, EventArgs e)
79  {
80      var dates = dtpFreight.Value.ToShortDateString();
81
82      try
83      {
84          connection.Open();
85          cmd = new SqlCommand("Update frmFreight set CustomerID = '" + txtCustNum.Text + "',Height = '" + txtHeight.Text + "',Weight = '" + txtWeight.Text + "',Lenght = '" +
86          cmd.ExecuteNonQuery();
87          MessageBox.Show("Updated");
88          connection.Close();
89          displaydata();
90          TextboxClear();
91      }
92      catch (Exception ex)
93      {
94          MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
95      }
96  }
97
98  98%  No Issues Found  Ln: 130  Ch: 13  SPC  C
```

```
FrmFreight.cs  FrmDriver.cs  FrmStatus.cs
PRG521Summitive6955  PRG521Summitive6955.FrmFreight

95  1 reference
96  private void btnDelete_Click(object sender, EventArgs e)
97  {
98      var dates = dtpFreight.Value.ToShortDateString();
99
100     connection.Open();
101     cmd = new SqlCommand("delete from frmFreight where ID = '" + FreightID + "'", connection);
102     cmd.ExecuteNonQuery();
103     MessageBox.Show("Deleted");
104     connection.Close();
105     displaydata();
106     TextboxClear();
107
108  1 reference
109  private void btnExit_Click(object sender, EventArgs e)
110  {
111     Application.Exit();
112  }
113
114  1 reference
115  private void dtgFreight_CellClick(object sender, DataGridViewCellEventArgs e)
116  {
117      var dates = dtpFreight.Value.ToShortDateString();
118
119      FreightID = Convert.ToInt32(dtgFreight.Rows[e.RowIndex].Cells[0].Value.ToString());
120      txtHeight.Text = dtgFreight.Rows[e.RowIndex].Cells[2].Value.ToString();
121      txtWeight.Text = dtgFreight.Rows[e.RowIndex].Cells[3].Value.ToString();
122      txtLenght.Text = dtgFreight.Rows[e.RowIndex].Cells[4].Value.ToString();
123      txtDest.Text = dtgFreight.Rows[e.RowIndex].Cells[5].Value.ToString();
124      txtOrginAdd.Text = dtgFreight.Rows[e.RowIndex].Cells[6].Value.ToString();
125      txtCustNum.Text = dtgFreight.Rows[e.RowIndex].Cells[1].Value.ToString();
126      dates = dtgFreight.Rows[e.RowIndex].Cells[8].Value.ToString();
127      cmbStatus.Text = dtgFreight.Rows[e.RowIndex].Cells[7].Value.ToString();
128
129  1 reference
130  private void FrmFreight_Load(object sender, EventArgs e)
131  {
132      txtCustNum.Focus();
133  }
134
135  //6955 Laikin Barnard
```

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 FrmFreight : Form
    {
        public FrmFreight()
        {
            InitializeComponent();

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

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

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

            public void TextboxClear()
            {
                txtHeight.Clear();
                txtWeight.Clear();
                txtLenght.Clear();
                txtOrginAdd.Clear();
                txtDest.Clear();
                txtCustNum.Clear();
                cmbStatus.Text = "";
                txtCustNum.Focus();
            }

            private void btnCreate_Click(object sender, EventArgs e)
            {
                var dates = dtpFreight.Value.ToShortDateString();

                connection.Open();
```

```

        cmd = new SqlCommand("INSERT INTO frmFreight
(CustomerID,Height,Weight,Lenght,DestanationAdressID,OrginAdressID,StatusID,FreightDat
e)" +
        "VALUES(" + 2 + "," + txtHeight.Text + ", '" + txtWeight.Text + "',
'" + txtLenght.Text + "', '" + txtDest.Text + "', '" + txtOrginAdd.Text + "', '" +
cmbStatus.Text + "', '" + dates + "')" , connection);
        cmd.ExecuteNonQuery();
        MessageBox.Show("Address Details Saved Successfully");
        connection.Close();
        displaydata();
        TextboxClear();
    }

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

    private void btnUpdate_Click(object sender, EventArgs e)
    {
        var dates = dtpFreight.Value.ToShortDateString();

        try
        {
            connection.Open();
            cmd = new SqlCommand("Update frmFreight set CustomerID = '" +
txtCustNum.Text + "',Height = '" + txtHeight.Text + "',Weight = '" + txtWeight.Text +
"',Lenght = '" + txtLenght.Text + "',DestanationAdressID = '" + txtDest.Text +
"',OrginAdressID = '" + txtOrginAdd.Text + "',StatusID = '" + cmbStatus.Text +
"',FreightDate = '" + dates + "' where ID = '" + FreightID + "'", 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)
    {
        var dates = dtpFreight.Value.ToShortDateString();

        connection.Open();
        cmd = new SqlCommand("delete from frmFreight where ID = '" + FreightID +
"'", connection);
        cmd.ExecuteNonQuery();
        MessageBox.Show("Deleted");
        connection.Close();
        displaydata();
        TextboxClear();
    }

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

```

```

private void dtgFreight_CellClick(object sender, DataGridViewCellEventArgs e)
{
    var dates = dtpFreight.Value.ToShortDateString();

    FreightID =
Convert.ToInt32(dtgFreight.Rows[e.RowIndex].Cells[0].Value.ToString());
    txtHeight.Text = dtgFreight.Rows[e.RowIndex].Cells[2].Value.ToString();
    txtWeight.Text = dtgFreight.Rows[e.RowIndex].Cells[3].Value.ToString();
    txtLenght.Text = dtgFreight.Rows[e.RowIndex].Cells[4].Value.ToString();
    txtDest.Text = dtgFreight.Rows[e.RowIndex].Cells[5].Value.ToString();
    txtOrginAdd.Text = dtgFreight.Rows[e.RowIndex].Cells[6].Value.ToString();
    txtCustNum.Text = dtgFreight.Rows[e.RowIndex].Cells[1].Value.ToString();
    dates = dtgFreight.Rows[e.RowIndex].Cells[8].Value.ToString();
    cmbStatus.Text = dtgFreight.Rows[e.RowIndex].Cells[7].Value.ToString();
}

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

```



## Results:

Freight

Frreight Information:

Customer Number: 0795012456 Status: 8

Height: 525 Origin Address: Westonaria

Lenght: 102 Date: Monday , 10 May 2021

Weight: 600

Destenation: Roodepoort

Create Read Update Delete Exit

Address Details Saved Successfully

OK

Freight

Frreight Information:

Customer Number: 2 Status: 8

Height: 525 Origin Address: Westonaria

Lenght: 102 Date: Monday , 10 May 2021

Weight: 600

Destenation: Roodepoort

Create Read Update Delete Exit

ID	CustomerID	Height	Weight	Lenght	DestanationAdres	OrginAdressID
1	2	200	500	250	Westonaria	JHB
3	2	525	600	102	Roodepoort	Westonaria
*						

Freight

Frreight Information:

Customer Number:  Status:

Height:  Origin Address:

Lenght:  Date:

Weight:

Destenation:

Create Read **Update** Delete Exit

ID	CustomerID	Height	Weight	Lenght	DestanationAdres	OrginAdressID
1		200	500	250	Westonaria	JHB
3		525	600	102	Roodepoort	Westonaria
*						

Updated

OK

Freight

Frreight Information:

Customer Number:  Status:

Height:  Origin Address:

Lenght:  Date:

Weight:

Destenation:

Create Read **Update** Delete Exit

CustomerID	Height	Weight	Lenght	DestanationAdres	OrginAdressID	StatusID
2	200	500	250	Westonaria	JHB	1
2	525	600	450	Roodepoort	North Riding	8
*						

Freight

Frreight Information:

Customer Number:  Status:

Height:  Origin Address:

Lenght:  Date:

Weight:

Destenation:

Create Read Update Delete Exit

ID	CustomerID	Height	Weight	Lenght	DestanationAdres	OrginAdressID
1		200	500	250	Westonaria	JHB
3		525	600	450	Roodepoort	North Riding
*						

Deleted

OK

Freight

Frreight Information:

Customer Number:

Status:

Height:

Origin Address:

Lenght:

Date:

Weight:

Destenation:

Create Read Update Delete Exit

ID	CustomerID	Height	Weight	Lenght	DestanationAdres	OrginAdressID
1	2	200	500	250	Westonaria	JHB
*						