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PRG521 SA Q4

CODE:

Form Address

```
public partial class Address : Form
    {
        int ComplexNumber = 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 Address()
        {
            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].[Address]",
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()
```

```
        {
            ComplexNmbrTxtbox.Text = "";
            ComplexNameTxtbox.Text = "";
            StreetTxtbox.Text = "";
            SuburbTxtbox.Text = "";
            CityTxtbox.Text = "";
            ProvinceTxtbox.Text = "";
            CountryTxtbox.Text = "";
            PostalCodeTxtbox.Text = "";
        }
        // Displays the content to string on data grid view
        private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs
e)
        {
            ComplexNmbrTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[1].Value.ToString();
            ComplexNameTxtbox.Text =
dataGridView1.Rows[e.RowIndex].Cells[2].Value.ToString();
            StreetTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[3].Value.ToString();
            SuburbTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[4].Value.ToString();
            CityTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[5].Value.ToString();
            ProvinceTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[6].Value.ToString();
            CountryTxtbox.Text = dataGridView1.Rows[e.RowIndex].Cells[7].Value.ToString();
            PostalCodeTxtbox.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 (ComplexNmbrTxtbox.Text != "" && ComplexNameTxtbox.Text != "" &&
StreetTxtbox.Text != "" && SuburbTxtbox.Text != "" && CityTxtbox.Text != "" &&
ProvinceTxtbox.Text != "" && CountryTxtbox.Text != "" && PostalCodeTxtbox.Text != "")
            {
                SqlCommand formCommand = new SqlCommand("Insert into Address(CNumber,
CName, Street, Suburb, City, Province, Country, PostalCode) values (@ComplexNumber,
@ComplexName, @Street, @Suburb, @City, @Province, @Country, @PostalCode)", connect);

                formCommand.Connection = connect;

                formCommand.Parameters.AddWithValue("@ComplexNumber",
ComplexNmbrTxtbox.Text);
```

```csharp
            formCommand.Parameters.AddWithValue("@ComplexName",
ComplexNameTxtbox.Text);
            formCommand.Parameters.AddWithValue("@Street", StreetTxtbox.Text);
            formCommand.Parameters.AddWithValue("@Suburb", SuburbTxtbox.Text);
            formCommand.Parameters.AddWithValue("@City", CityTxtbox.Text);
            formCommand.Parameters.AddWithValue("@Province", ProvinceTxtbox.Text);
            formCommand.Parameters.AddWithValue("@Country", CountryTxtbox.Text);
            formCommand.Parameters.AddWithValue("@PostalCode", PostalCodeTxtbox.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 (ComplexNmbrTxtbox.Text != "")
        {
            int Find = Convert.ToInt32(ComplexNmbrTxtbox.Text);
            formCommand = new SqlCommand("Select CNumber, CName, Street, Suburb, City,
Province, Country, PostalCode from Address where ComplexNumber =" + Find);
            formCommand.CommandType = CommandType.Text;
            formCommand.Connection = connect;
            connect.Open();

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

            ComplexNmbrTxtbox.Text = reader["ComplexNumber"].ToString();
            ComplexNameTxtbox.Text = reader["ComplexName"].ToString();
            StreetTxtbox.Text = reader["Street"].ToString();
```

```csharp
            SuburbTxtbox.Text = reader["Suburb"].ToString();
            CityTxtbox.Text = reader["City"].ToString();
            ProvinceTxtbox.Text = reader["Province"].ToString();
            CountryTxtbox.Text = reader["Country"].ToString();
            PostalCodeTxtbox.Text = reader["PostalCode"].ToString();

            connect.Close();
        }
        else
        {
            MessageBox.Show("No Complex Number entered. Please enter Complex Number.");
        }
    }

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

        if (ComplexNmbrTxtbox.Text != "" && ComplexNameTxtbox.Text != "" &&
StreetTxtbox.Text != "" && SuburbTxtbox.Text != "" && CityTxtbox.Text != "" &&
ProvinceTxtbox.Text != "" && CountryTxtbox.Text != "" && PostalCodeTxtbox.Text != "")
        {
            formCommand = new SqlCommand("update Address set
CNumber=@ComplexNumber, CName=@ComplexName, Street=@Street, Suburb=@Suburb,
City=@City, Province=@Province, Country=@Country, PostalCode=@PostalCode where
ComplexNumber=@ComplexNumber AND ComplexName=@ComplexName", connect);
            formCommand.Connection = connect;
            connect.Open();

            formCommand.Parameters.AddWithValue("@ComplexNumber",
ComplexNmbrTxtbox.Text);
            formCommand.Parameters.AddWithValue("@ComplexName",
ComplexNameTxtbox.Text);
            formCommand.Parameters.AddWithValue("@Street", StreetTxtbox.Text);
            formCommand.Parameters.AddWithValue("@Suburb", SuburbTxtbox.Text);
            formCommand.Parameters.AddWithValue("@City", CityTxtbox.Text);
            formCommand.Parameters.AddWithValue("@Province", ProvinceTxtbox.Text);
            formCommand.Parameters.AddWithValue("@Country", CountryTxtbox.Text);
            formCommand.Parameters.AddWithValue("@PostalCode", PostalCodeTxtbox.Text);
            formCommand.ExecuteNonQuery();
            MessageBox.Show("Your record has been updated");
            connect.Close();
```

```csharp
            showData();
            ClearTextBoxes();
        }
        else
        {
            MessageBox.Show("No record selected. Insert a record you with to update with
Complex Number and Complex Name.");
        }
}

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

        ComplexNumber = Convert.ToInt32(ComplexNmbrTxtbox.Text);
        if (ComplexNumber != 0)
        {
            formCommand = new SqlCommand("delete Address where CNumber =
@ComplexNumber AND CName=@ComplexName", connect);
            connect.Open();
            formCommand.Parameters.AddWithValue("@ComplexNumber", ComplexNumber);
            formCommand.Parameters.AddWithValue("@ComplexName",
ComplexNameTxtbox.Text);
            formCommand.ExecuteNonQuery();
            connect.Close();
            MessageBox.Show("Record has been deleted.");
            showData();
            ClearTextBoxes();
        }
        else
        {
            MessageBox.Show("No Complex Number or Complex Name filled in. Please fill in a
Complex Number and Complex Name.");
        }
    }

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

```
    private void Address_Load(object sender, EventArgs e)
    {

    }
}
```

SCREENSHOTS:

FrmAddress

Address Information:

Complex Number: `4`

Complex Name: `Question`

Street: `Thein`

Suburb: `FC`

City: `BV`

Province: `LOLZ`

Country: `XD`

Postal Code: `39145`

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

	id	CNumber	CName	Street	Suburb	City
▶	1	12	LOLZ	Theunissen Cres	Fichardt Park	Bloemfontein
*						

Your record has been saved.

[OK]

FrmAddress

Address Information:

Complex Number: `4`

Complex Name: ` `

Street: ` `

Suburb: ` `

City: ` `

Province: ` `

Country: ` `

Postal Code: ` `

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

	id	CNumber	CName	Street	Suburb	City
	1	12	LOLZ	Theunissen Cres	Fichardt Park	Bloemfontein
▶	2	4	Question	Thein	FC	BV
*						

×

Record has been deleted.

[OK]