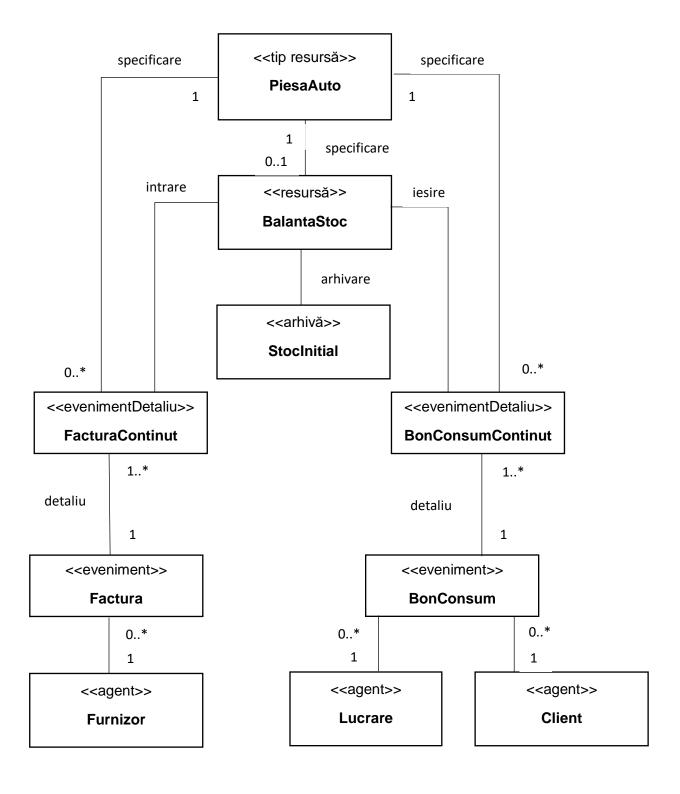
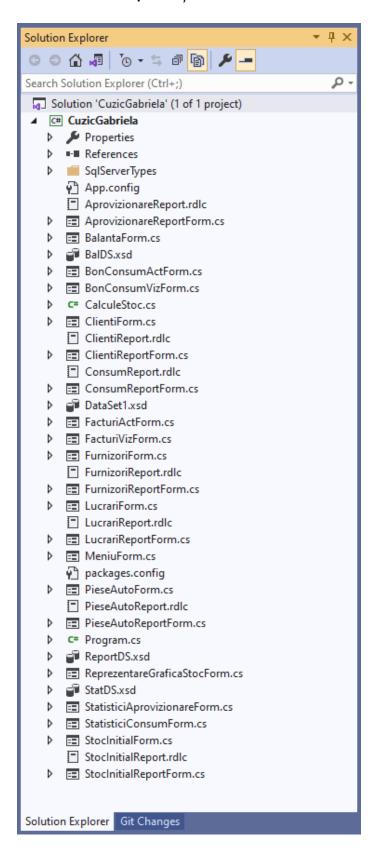
Proiect MPP Aplicatie pentru evidenta pieselor dintr-un service auto

Cuzic Gabriela info3 – grupa 2

1. Diagrama REA



2. Structura aplicației



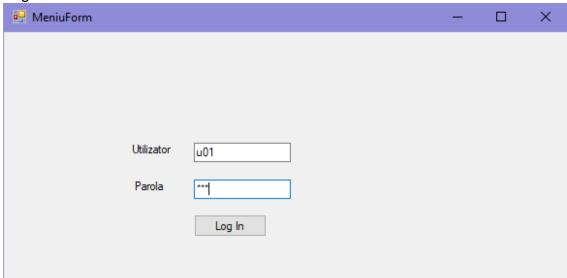
3. Form-uri

Am folosit form-uri pentru vizualizarea, actualizarea și ștergerea înregistrărilor modelelor folosite, utilizând dataSet-ul **DataSet1.xsd**.

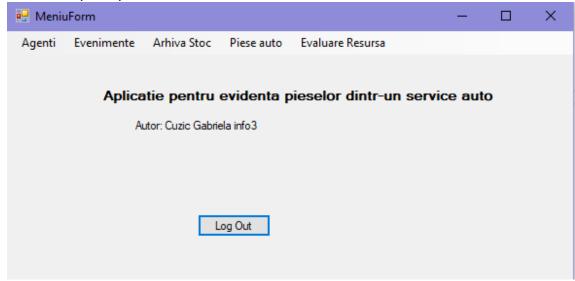
De asemenea, am folosit form-uri pentru vizualizarea acestora în **rapoarte** cu tableAdaptere parametrizate, folosind dataSet-ul **ReportDS.xsd**, dar și form-uri pentru a **reprezenta grafic** statistici legate de evaluarea resurselor și evenimente de aprovizionare și consum, prin intermediul dataSet-ului **StatDS.xsd**.

3.0. Meniu MeniuForm.cs





Fereastra principala



```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
    public partial class MeniuForm : Form
        private OleDbConnection con = new OleDbConnection();
        private OleDbCommand cmd = new OleDbCommand();
        private OleDbDataReader rdr;
        public MeniuForm()
        {
            InitializeComponent();
        }
        private void A1(Boolean v)
            menuStrip1.Visible = !v;
            lblTitlu.Visible = !v;
            lblAutor.Visible = !v;
            lblParola.Visible = v;
            txtParola.Visible = v;
            lblUtilizator.Visible = v;
            txtUtilizator.Visible = v;
            if (v)
                btnStart.Text = "Log In";
                txtUtilizator.Text = "";
                txtParola.Text = "";
            else btnStart.Text = "Log Out";
        }
        private Boolean Logare_OK()
            if (txtUtilizator.Text == "")
            {
                MessageBox.Show("Completati utilizator !");
                txtUtilizator.Focus();
                return false;
            if (txtParola.Text == "")
                MessageBox.Show("Completati parola !");
                txtParola.Focus();
                return false;
            con.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;" +
            "Data Source=D:\\Medii de proiectare\\Proiect sem2\\BD-
ServiceAuto.mdb";
            cmd.Connection = con;
            cmd.CommandText = "Select username,parola from Conturi " +
            "where username='" + txtUtilizator.Text + "'";
            con.Open();
            rdr = cmd.ExecuteReader();
```

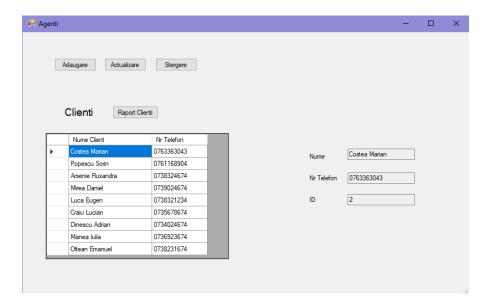
```
if (rdr.Read())
                if (txtParola.Text != rdr.GetString(1))
                {
                    MessageBox.Show("Parola eronata");
                    txtParola.Focus();
                    con.Close();
                    return false;
                con.Close();
                return true;
            }
            else
            {
                MessageBox.Show("Utilizator eronat");
                txtUtilizator.Focus();
                con.Close();
                return false;
            }
        }
        private void aprovizionareToolStripMenuItem_Click(object sender, EventArgs
e)
        {
            FacturiVizForm f = new FacturiVizForm();
            f.ShowDialog();
        }
        private void consumToolStripMenuItem_Click(object sender, EventArgs e)
            BonConsumVizForm f = new BonConsumVizForm();
            f.ShowDialog();
        }
        private void clientiToolStripMenuItem_Click(object sender, EventArgs e)
            ClientiForm f = new ClientiForm();
            f.ShowDialog();
        }
        private void furnizoriToolStripMenuItem_Click(object sender, EventArgs e)
            FurnizoriForm f = new FurnizoriForm();
            f.ShowDialog();
        }
        private void lucrariToolStripMenuItem1_Click(object sender, EventArgs e)
            LucrariForm f = new LucrariForm();
            f.ShowDialog();
        }
        private void tipuriResursaToolStripMenuItem_Click(object sender, EventArgs
e)
        {
            PieseAutoForm f = new PieseAutoForm();
            f.ShowDialog();
        }
```

```
private void arhivaStocToolStripMenuItem Click(object sender, EventArgs e)
            StocInitialForm f = new StocInitialForm();
            f.ShowDialog();
        }
        private void MeniuForm_Load(object sender, EventArgs e)
            A1(true);
        }
        private void CalculResursaToolStripMenuItem_Click(object sender, EventArgs
e)
        {
            BalantaForm f = new BalantaForm();
            f.ShowDialog();
        }
        private void btnStart_Click(object sender, EventArgs e)
            if (btnStart.Text == "Log In")
            {
                if (Logare_OK()) A1(false);
            else A1(true);
        }
    }
}
```

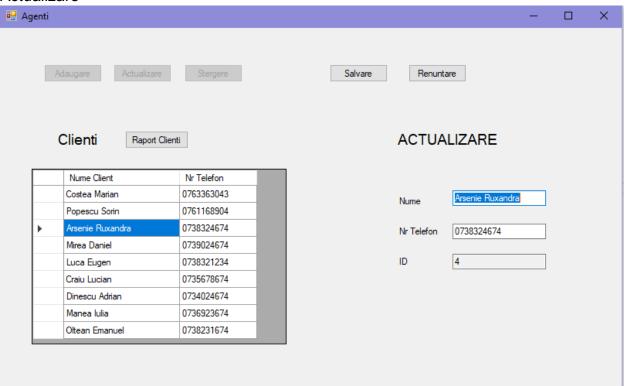
3.1. Agenti

ClientiForm.cs

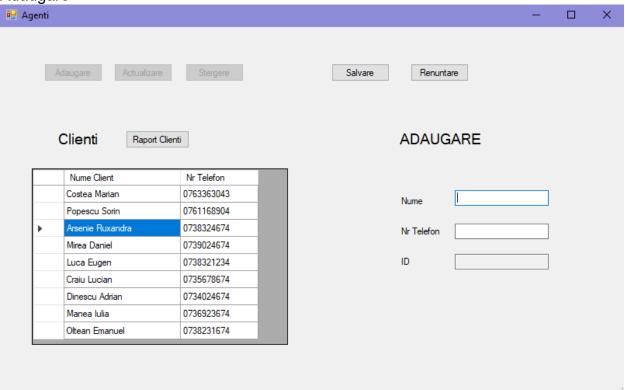
Vizualizare



Actualizare



Adăugare



```
using System;
using System.Data.OleDb;
using System.Windows.Forms;
namespace CuzicGabriela
    public partial class ClientiForm : Form
        public ClientiForm()
        {
            InitializeComponent();
        }
        private void ClientiForm_Load(object sender, EventArgs e)
            A1();
        }
        private void A1()
            //Umple cu date obiectele DataTable: Clienti (din DataSet):
            clientiTableAdapter.Fill(dataSet1.Clienti);
            //Protectie grid
            dataGridView1.AllowUserToAddRows = false;
            dataGridView1.AllowUserToDeleteRows = false;
            dataGridView1.ReadOnly = true;
            //Protectie txtIdClient
            txtIdClient.ReadOnly = true;
            A3();
        }
        private void A2()
            //Configurare butoane
            configureazaButoane(false);
            //Dezlegare controale Panel
            legareControale(false);
            //Ridicare protectie controale Panel
            protectiePanel(false);
            //Modifcare lblOp
            lblOp.Text = "ADAUGARE";
            //Pozitionare cursor pe primul camp
            txtDClient.Focus();
            // Golire campuri
            golireCampuri();
        }
        private void A3()
            //Initializare lblOp
            lblOp.Text = "";
            //Configurare(butoane)
            configureazaButoane(true);
            //Protectie componente Panel
            protectiePanel(true);
            //Legare controale
            legareControale(true);
```

```
}
        private void A4()
            if (lblOp.Text == "ADAUGARE")
                if (!validareCampuriObligatorii()) return;
                adauga inregistrare();
                golireCampuri();
                //Pune cursor pe primul camp
                txtDClient.Focus();
                refresh grid(clientiBindingSource.Position);
            else if (lbl0p.Text == "ACTUALIZARE")
                if (!validareCampuriObligatorii()) return;
                modifica_inregistrare();
                refresh grid(clientiBindingSource.Position);
                A3();
            }
            else
                MessageBox.Show("Operatie actualizare neefectuata");
        }
        private void A5(TextBox txtB)
            decimal p;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            OleDbDataReader r;
            if (lbl0p.Text == "") return;
            if (txtB.Text == "") return;
            if (btnRenuntare.Focused) return;
            if (txtB == txtNrTelefon)
                // Validare numericitate
                try { p = Convert.ToDecimal(txtB.Text); }
                catch { MessageBox.Show("Format eronat"); txtB.Focus(); }
                con.ConnectionString =
clientiTableAdapter.Connection.ConnectionString;
                cmd.Connection = con;
                if (lblOp.Text == "ADAUGARE")
                    cmd.CommandText = "Select DClient From Clienti where
NrTelefon='" + txtNrTelefon.Text + "'";
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                    {
                        MessageBox.Show("Număr de telefon deja existent");
                        txtNrTelefon.Focus();
                    con.Close();
                else if (lbl0p.Text == "ACTUALIZARE")
                    cmd.CommandText = "Select DClient From Clienti where
NrTelefon='" + txtNrTelefon.Text +
```

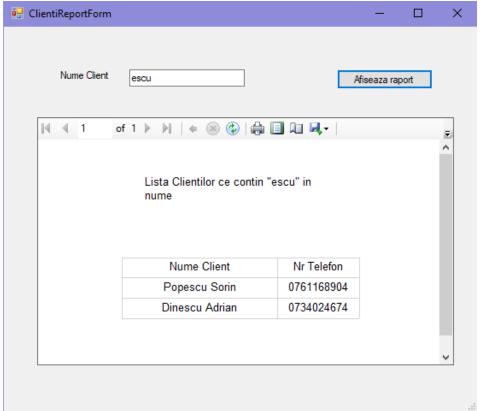
```
"' and IdClient <> " + txtIdClient.Text;
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                        MessageBox.Show("Număr de telefon deja existent");
                        txtNrTelefon.Focus();
                    }
                    con.Close();
                }
            }
        }
        private void A7()
            //Configurare butoane
            configureazaButoane(false);
            //Dezlegare controale Panel
            legareControale(false);
            //Ridicare protectie controale Panel
            protectiePanel(false);
            //Modifcare lbl0p
            lblOp.Text = "ACTUALIZARE";
            //Pozitionare cursor pe primul camp
            txtDClient.Focus();
        }
        private void A8()
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            OleDbDataReader r;
            con.ConnectionString =
clientiTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Select IdBonConsum From BonuriConsum where
IdClient=" + txtIdClient.Text;
            con.Open();
            r = cmd.ExecuteReader();
            if (r.Read())
            {
                MessageBox.Show("Client referit in tabela BonuriConsum! Nu se
poate sterge!");
                con.Close();
                return;
            }
            con.Close();
            con.ConnectionString =
clientiTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Delete From Clienti Where IdClient = " +
txtIdClient.Text;
            //MessageBox.Show(cmd.CommandText);
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
            refresh grid(clientiBindingSource.Position);
        }
```

```
private void configureazaButoane(bool v)
            btnRenuntare.Visible = !v;
            btnSalvare.Visible = !v;
            btnAdaugare.Enabled = v;
            btnActualizare.Enabled = v;
            btnStergere.Enabled = v;
       }
       private void legareControale(bool v)
            if (v)
            {
                txtDClient.DataBindings.Add("Text", clientiBindingSource,
"DClient");
                txtNrTelefon.DataBindings.Add("Text", clientiBindingSource,
"NrTelefon");
                txtIdClient.DataBindings.Add("Text", clientiBindingSource,
"IdClient");
            }
            else
            {
                txtDClient.DataBindings.Clear();
                txtNrTelefon.DataBindings.Clear();
                txtIdClient.DataBindings.Clear();
            }
       }
       private void protectiePanel(bool v)
            txtDClient.ReadOnly = v;
            txtNrTelefon.ReadOnly = v;
        }
       private void golireCampuri()
            txtDClient.Text = "";
            txtNrTelefon.Text = "";
            txtIdClient.Text = "";
       private bool validareCampuriObligatorii()
            //Validare de completare obligatorie campurile: Nume, NrTelefon
            if (txtDClient.Text == "")
            {
                MessageBox.Show("Completati Numele clientului !");
                txtDClient.Focus();
                return false;
            if (txtNrTelefon.Text == "")
                MessageBox.Show("Completati numărul de telefon !");
                txtNrTelefon.Focus();
                return false;
            return true;
       }
       private void adauga_inregistrare()
            string listaCampuri;
```

```
string listaValori;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString =
clientiTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            listaCampuri = "DClient, NrTelefon";
            listaValori = "'" + txtDClient.Text + "'" +
            ",'" + txtNrTelefon.Text + "'";
            cmd.CommandText = "Insert into Clienti(" + listaCampuri + ") " +
            "Select " + listaValori;
            //MessageBox.Show("Client adaugat cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void refresh grid(int p)
            clientiTableAdapter.Fill(dataSet1.Clienti);
            clientiBindingSource.Position = p;
        }
        private void modifica_inregistrare()
            string listaSet;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString =
clientiTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            listaSet = "DClient = '" + txtDClient.Text + "'," +
            "NrTelefon = '" + txtNrTelefon.Text + "'";
            cmd.CommandText = "Update Clienti Set " + listaSet + " Where
IdClient=" +
            txtIdClient.Text;
            //MessageBox.Show("Actualizare realizata cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void btnActualizare_Click(object sender, EventArgs e)
        {
            A7();
        }
        private void btnSalvare_Click(object sender, EventArgs e)
            A4();
        }
        private void btnRenuntare Click(object sender, EventArgs e)
        {
            A3();
        }
        private void btnAdaugare_Click(object sender, EventArgs e)
```

```
A2();
        }
        private void btnStergere_Click(object sender, EventArgs e)
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu, MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
            if (rezultat == DialogResult.No) return;
            A8();
        }
        private void txtNrTelefon_Leave(object sender, EventArgs e)
            A5(txtNrTelefon);
        }
        private void btnRaportClienti_Click(object sender, EventArgs e)
            ClientiReportForm f = new ClientiReportForm();
            f.ShowDialog();
        }
    }
}
```

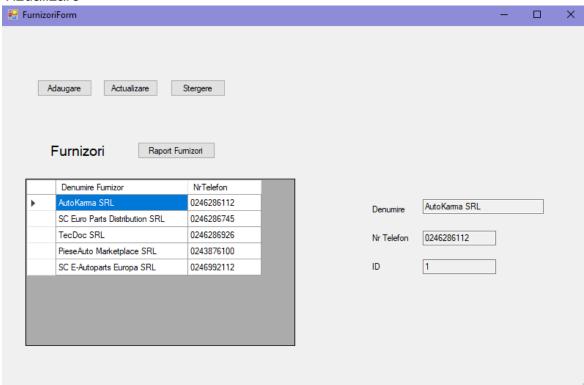
ClientiReportForm.cs



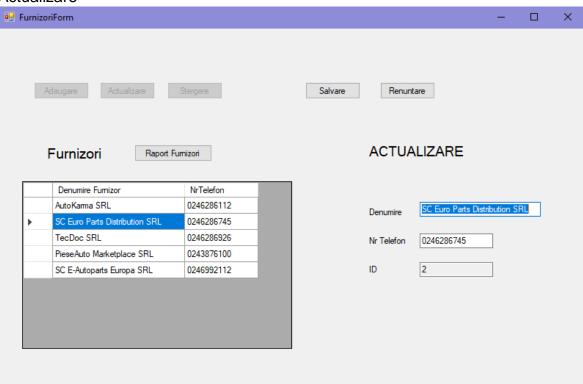
```
using Microsoft.Reporting.WinForms;
using System;
using System.Windows.Forms;
namespace CuzicGabriela
{
    public partial class ClientiReportForm : Form
        public ClientiReportForm()
        {
            InitializeComponent();
        }
        private void ClientiReportForm_Load(object sender, EventArgs e)
            // TODO: This line of code loads data into the 'ReportDS.Clienti'
table. You can move, or remove it, as needed.
            //this.ClientiTableAdapter.Fill(this.ReportDS.Clienti);
            //this.reportViewer1.RefreshReport();
        }
        private void btnAfiseaza_Click(object sender, EventArgs e)
            this.ClientiTableAdapter.Fill(this.ReportDS.Clienti,
txtDClient.Text.ToString());
            //Pregatesc parametrii raportului
            ReportParameter[] parameters = new ReportParameter[1];
            if(txtDClient.Text!="")
                parameters[0] = new ReportParameter("Titlu", "Lista Clientilor ce
contin \"" + txtDClient.Text.ToString() +"\" in nume");
            else parameters[0] = new ReportParameter("Titlu", "Lista Clientilor "
+ txtDClient.Text.ToString());
            //Comunicare parametrii
            this.reportViewer1.LocalReport.SetParameters(parameters);
            //Emit raport
            this.reportViewer1.RefreshReport();
        }
    }
}
```

FurnizoriForm.cs

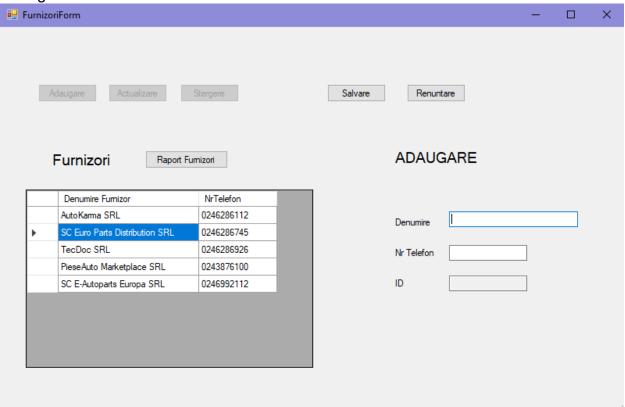
Vizualizare



Actualizare



Adăugare



```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
{
    public partial class FurnizoriForm : Form
        public FurnizoriForm()
        {
            InitializeComponent();
        }
        private void FurnizoriForm_Load(object sender, EventArgs e)
            A1();
        }
        private void A1()
            //Umple cu date obiectele DataTable: Furnizori (din DataSet):
            furnizoriTableAdapter.Fill(dataSet1.Furnizori);
            //Protectie grid
            dataGridView1.AllowUserToAddRows = false;
            dataGridView1.AllowUserToDeleteRows = false;
            dataGridView1.ReadOnly = true;
            //Protectie txtIdFurnizor
```

```
txtIdFurnizor.ReadOnly = true;
    A3();
}
private void A2()
    //Configurare butoane
    configureazaButoane(false);
    //Dezlegare controale Panel
    legareControale(false);
    //Ridicare protectie controale Panel
    protectiePanel(false);
    //Modifcare lbl0p
    lblOp.Text = "ADAUGARE";
    //Pozitionare cursor pe primul camp
    txtDFurnizor.Focus();
    // Golire campuri
    golireCampuri();
}
private void A3()
    //Initializare lblOp
    lblOp.Text = "";
    //Çonfigurare(butoane)
    configureazaButoane(true);
    //Protectie componente Panel
    protectiePanel(true);
    //Legare controale
    legareControale(true);
private void A4()
    if (lblOp.Text == "ADAUGARE")
    {
        if (!validareCampuriObligatorii()) return;
        adauga_inregistrare();
        golireCampuri();
        //Pune cursor pe primul camp
        txtDFurnizor.Focus();
        refresh_grid(furnizoriBindingSource.Position);
    else if (lblOp.Text == "ACTUALIZARE")
        if (!validareCampuriObligatorii()) return;
        modifica_inregistrare();
        refresh grid(furnizoriBindingSource.Position);
        A3();
    }
    else
        MessageBox.Show("Operatie actualizare neefectuata");
}
private void A5(TextBox txtB)
    decimal p;
    OleDbConnection con = new OleDbConnection();
    OleDbCommand cmd = new OleDbCommand();
    OleDbDataReader r;
```

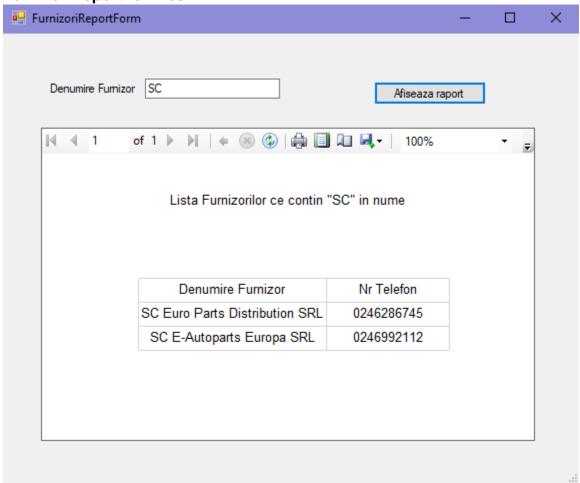
```
if (lbl0p.Text == "") return;
            if (txtB.Text == "") return;
            if (btnRenuntare.Focused) return;
            if (txtB == txtNrTelefon)
            {
                // Validare numericitate
                try { p = Convert.ToDecimal(txtB.Text); }
                catch { MessageBox.Show("Format eronat"); txtB.Focus(); }
                con.ConnectionString =
furnizoriTableAdapter.Connection.ConnectionString;
                cmd.Connection = con;
                if (lblOp.Text == "ADAUGARE")
                    cmd.CommandText = "Select DFurnizor From Furnizori where
NrTelefon='" + txtNrTelefon.Text + "'";
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                        MessageBox.Show("Număr de telefon deja existent");
                        txtNrTelefon.Focus();
                    }
                    con.Close();
                }
                else if (lbl0p.Text == "ACTUALIZARE")
                    cmd.CommandText = "Select DFurnizor From Furnizori where
NrTelefon='" + txtNrTelefon.Text +
                    "' and IdFurnizor <> " + txtIdFurnizor.Text;
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                    {
                        MessageBox.Show("Număr de telefon deja existent");
                        txtNrTelefon.Focus();
                    con.Close();
                }
            }
        }
        private void A7()
            //Configurare butoane
            configureazaButoane(false);
            //Dezlegare controale Panel
            legareControale(false);
            //Ridicare protectie controale Panel
            protectiePanel(false);
            //Modifcare lbl0p
            lblOp.Text = "ACTUALIZARE";
            //Pozitionare cursor pe primul camp
            txtDFurnizor.Focus();
        }
        private void A8()
            OleDbConnection con = new OleDbConnection();
```

```
OleDbCommand cmd = new OleDbCommand();
            OleDbDataReader r;
            con.ConnectionString =
furnizoriTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Select IdFactura From Facturi where IdFurnizor=" +
txtIdFurnizor.Text;
            con.Open();
            r = cmd.ExecuteReader();
            if (r.Read())
                MessageBox.Show("Furnizor referit in tabela Facturi! Nu se poate
sterge!");
                con.Close();
                return;
            }
            con.Close();
            con.ConnectionString =
furnizoriTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Delete From Furnizori Where IdFurnizor = " +
txtIdFurnizor.Text;
            //MessageBox.Show("Inregistrare stearsa cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
            refresh grid(furnizoriBindingSource.Position);
        }
        private void configureazaButoane(bool v)
            btnRenuntare.Visible = !v;
            btnSalvare.Visible = !v;
            btnAdaugare.Enabled = v;
            btnActualizare.Enabled = v;
            btnStergere.Enabled = v;
        private void legareControale(bool v)
            if (v)
            {
                txtDFurnizor.DataBindings.Add("Text", furnizoriBindingSource,
"DFurnizor");
                txtNrTelefon.DataBindings.Add("Text", furnizoriBindingSource,
"NrTelefon");
                txtIdFurnizor.DataBindings.Add("Text", furnizoriBindingSource,
"IdFurnizor");
            else
            {
                txtDFurnizor.DataBindings.Clear();
                txtNrTelefon.DataBindings.Clear();
                txtIdFurnizor.DataBindings.Clear();
        }
        private void protectiePanel(bool v)
            txtDFurnizor.ReadOnly = v;
```

```
txtNrTelefon.ReadOnly = v;
        }
        private void golireCampuri()
            txtDFurnizor.Text = "";
            txtNrTelefon.Text = "";
            txtIdFurnizor.Text = "";
        }
        private bool validareCampuriObligatorii()
            //Validare de completare obligatorie campurile: Nume, NrTelefon
            if (txtDFurnizor.Text == "")
                MessageBox.Show("Completati Numele furnizorului !");
                txtDFurnizor.Focus();
                return false;
            if (txtNrTelefon.Text == "")
                MessageBox.Show("Completati numărul de telefon !");
                txtNrTelefon.Focus();
                return false;
            }
            return true;
        }
        private void adauga_inregistrare()
            string listaCampuri;
            string listaValori;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString =
furnizoriTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            listaCampuri = "DFurnizor, NrTelefon";
            listaValori = "'" + txtDFurnizor.Text + "'" +
            ",'" + txtNrTelefon.Text + "'";
            cmd.CommandText = "Insert into Furnizori(" + listaCampuri + ") " +
            "Select " + listaValori;
            //MessageBox.Show("Adaugare efectuata cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void refresh grid(int p)
            furnizoriTableAdapter.Fill(dataSet1.Furnizori);
            furnizoriBindingSource.Position = p;
        }
        private void modifica inregistrare()
            string listaSet;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString =
furnizoriTableAdapter.Connection.ConnectionString;
```

```
cmd.Connection = con;
            listaSet = "DFurnizor = '" + txtDFurnizor.Text + "'," +
            "NrTelefon = '" + txtNrTelefon.Text + "'";
            cmd.CommandText = "Update Furnizori Set " + listaSet + " Where
IdFurnizor=" +
            txtIdFurnizor.Text;
            //MessageBox.Show("Actualizare efectuata cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void btnAdaugare Click(object sender, EventArgs e)
            A2();
        }
        private void btnActualizare_Click(object sender, EventArgs e)
            A7();
        }
        private void btnStergere_Click(object sender, EventArgs e)
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu, MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
            if (rezultat == DialogResult.No) return;
            A8();
        }
        private void btnSalvare_Click(object sender, EventArgs e)
            A4();
        }
        private void btnRenuntare_Click(object sender, EventArgs e)
            A3();
        }
        private void txtNrTelefon_Leave(object sender, EventArgs e)
            A5(txtNrTelefon);
        }
        private void btnRaportFurnizori Click(object sender, EventArgs e)
            FurnizoriReportForm f = new FurnizoriReportForm();
            f.ShowDialog();
        }
    }
}
```

FurnizoriReportForm.cs

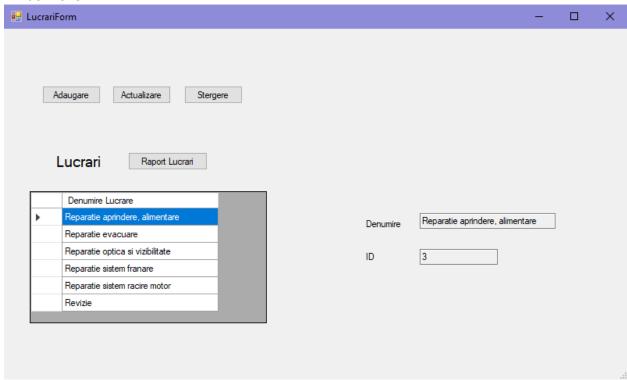


```
using Microsoft.Reporting.WinForms;
using System;
using System.Windows.Forms;
namespace CuzicGabriela
{
    public partial class FurnizoriReportForm : Form
        public FurnizoriReportForm()
        {
            InitializeComponent();
        }
        private void FurnizoriReportForm_Load(object sender, EventArgs e)
            // TODO: This line of code loads data into the 'ReportDS.Furnizori'
table. You can move, or remove it, as needed.
            //this.FurnizoriTableAdapter.Fill(this.ReportDS.Furnizori);
            //this.reportViewer1.RefreshReport();
        }
```

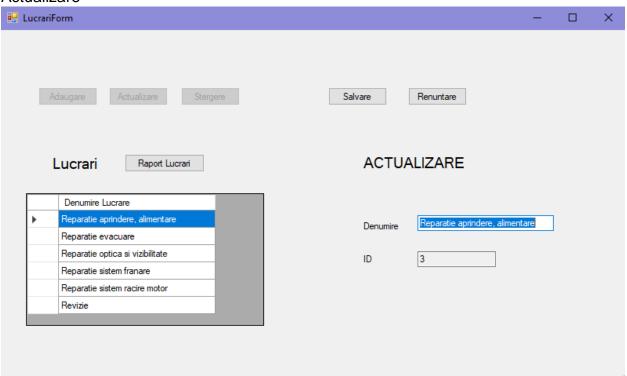
```
private void btnAfiseaza_Click(object sender, EventArgs e)
            this.FurnizoriTableAdapter.Fill(this.ReportDS.Furnizori,
txtDFurnizor.Text.ToString());
            //Pregatesc parametrii raportului
            ReportParameter[] parameters = new ReportParameter[1];
            if (txtDFurnizor.Text != "")
               parameters[0] = new ReportParameter("Titlu", "Lista Furnizorilor
ce contin \"" + txtDFurnizor.Text.ToString() + "\" in nume");
            else parameters[0] = new ReportParameter("Titlu", "Lista Furnizorilor
" + txtDFurnizor.Text.ToString());
            //Comunicare parametrii
            this.reportViewer1.LocalReport.SetParameters(parameters);
            //Emit raport
            this.reportViewer1.RefreshReport();
       }
    }
}
```

LucrariForm.cs

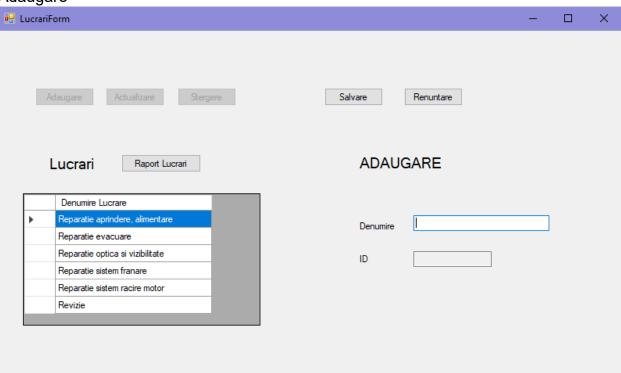
Vizualizare



Actualizare



Adăugare



```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
    public partial class LucrariForm : Form
        public LucrariForm()
        {
            InitializeComponent();
        }
        private void LucrariForm_Load(object sender, EventArgs e)
            A1();
        }
        private void A1()
            //Umple cu date obiectele DataTable: Lucrari (din DataSet):
            lucrariTableAdapter.Fill(dataSet1.Lucrari);
            //Protectie grid
            dataGridView1.AllowUserToAddRows = false;
            dataGridView1.AllowUserToDeleteRows = false;
            dataGridView1.ReadOnly = true;
            //Protectie txtIdLucrari
            txtIdLucrare.ReadOnly = true;
            A3();
        }
        private void A2()
            //Configurare butoane
            configureazaButoane(false);
            //Dezlegare controale Panel
            legareControale(false);
            //Ridicare protectie controale Panel
            protectiePanel(false);
            //Modifcare lblOp
            lblOp.Text = "ADAUGARE";
            //Pozitionare cursor pe primul camp
            txtDLucrare.Focus();
            // Golire campuri
            golireCampuri();
        }
        private void A3()
            //Initializare lblOp
            lblOp.Text = "";
            //Configurare(butoane)
            configureazaButoane(true);
            //Protectie componente Panel
            protectiePanel(true);
            //Legare controale
            legareControale(true);
```

```
}
        private void A4()
            if (lblOp.Text == "ADAUGARE")
                if (!validareCampuriObligatorii()) return;
                adauga inregistrare();
                golireCampuri();
                //Pune cursor pe primul camp
                txtDLucrare.Focus();
                refresh grid(lucrariBindingSource.Position);
            }
            else if (lbl0p.Text == "ACTUALIZARE")
                if (!validareCampuriObligatorii()) return;
                modifica_inregistrare();
                refresh grid(lucrariBindingSource.Position);
                A3();
            }
            else
                MessageBox.Show("Operatie actualizare neefectuata");
        }
        private void A5(TextBox txtB)
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            OleDbDataReader r;
            if (lbl0p.Text == "") return;
            if (txtB.Text == "") return;
            if (btnRenuntare.Focused) return;
            if (txtB == txtDLucrare)
                con.ConnectionString =
lucrariTableAdapter.Connection.ConnectionString;
                cmd.Connection = con;
                if (lblOp.Text == "ADAUGARE")
                    cmd.CommandText = "Select IdLucrare From Lucrari where
DLucrare='" + txtDLucrare.Text + "'";
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                    {
                        MessageBox.Show("Lucrare deja existentă!");
                        txtDLucrare.Focus();
                    con.Close();
                else if (lbl0p.Text == "ACTUALIZARE")
                    cmd.CommandText = "Select IdLucrare From Lucrari where
DLucrare='" + txtDLucrare.Text +
                    "' and IdLucrare<> " + txtIdLucrare.Text;
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
```

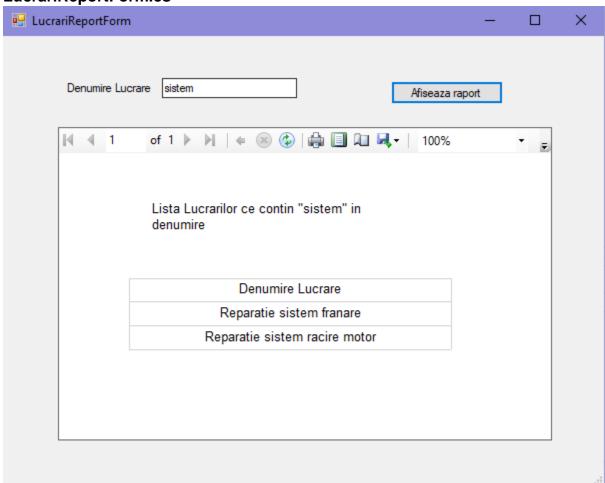
```
{
                        MessageBox.Show("Lucrare deja existentă!");
                        txtDLucrare.Focus();
                    con.Close();
                }
            }
        }
        private void A7()
            //Configurare butoane
            configureazaButoane(false);
            //Dezlegare controale Panel
            legareControale(false);
            //Ridicare protectie controale Panel
            protectiePanel(false);
            //Modifcare lbl0p
            lblOp.Text = "ACTUALIZARE";
            //Pozitionare cursor pe primul camp
            txtDLucrare.Focus();
        }
        private void A8()
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            OleDbDataReader r;
            con.ConnectionString =
lucrariTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Select IdBonConsum From BonuriConsum where
IdLucrare=" + txtIdLucrare.Text;
            con.Open();
            r = cmd.ExecuteReader();
            if (r.Read())
                MessageBox.Show("Lucrare referită in tabela BonuriConusum! Nu se
poate sterge!");
                con.Close();
                return;
            con.Close();
            con.ConnectionString =
lucrariTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Delete From Lucrari Where IdLucrare = " +
txtIdLucrare.Text;
            //MessageBox.Show("Inregistrare stearsa cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
            refresh grid(lucrariBindingSource.Position);
        }
        private void configureazaButoane(bool v)
            btnRenuntare.Visible = !v;
            btnSalvare.Visible = !v;
```

```
btnAdaugare.Enabled = v;
            btnActualizare.Enabled = v;
            btnStergere.Enabled = v;
        }
        private void legareControale(bool v)
            if (v)
            {
                txtDLucrare.DataBindings.Add("Text", lucrariBindingSource,
"DLucrare");
                txtIdLucrare.DataBindings.Add("Text", lucrariBindingSource,
"IdLucrare");
            else
            {
                txtDLucrare.DataBindings.Clear();
                txtIdLucrare.DataBindings.Clear();
        }
        private void protectiePanel(bool v)
            txtDLucrare.ReadOnly = v;
        private void golireCampuri()
            txtDLucrare.Text = "";
            txtIdLucrare.Text = "";
        }
        private bool validareCampuriObligatorii()
            //Validare de completare obligatorie campurile: Nume, NrTelefon
            if (txtDLucrare.Text == "")
                MessageBox.Show("Completati denumirea lucrării!");
                txtDLucrare.Focus();
                return false;
            return true;
        }
        private void adauga_inregistrare()
            string listaCampuri;
            string listaValori;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString =
lucrariTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            listaCampuri = "DLucrare";
            listaValori = "'" + txtDLucrare.Text + "'";
            cmd.CommandText = "Insert into Lucrari(" + listaCampuri + ") " +
            "Select " + listaValori;
            //MessageBox.Show("Inregistrare adaugata cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
```

```
private void refresh_grid(int p)
            lucrariTableAdapter.Fill(dataSet1.Lucrari);
            lucrariBindingSource.Position = p;
        }
        private void modifica inregistrare()
            string listaSet;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString =
lucrariTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            listaSet = "DLucrare = '" + txtDLucrare.Text + "'";
            cmd.CommandText = "Update Lucrari Set " + listaSet + " Where
IdLucrare=" +
            txtIdLucrare.Text;
            //MessageBox.Show("Actualizare efectuata cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void btnAdaugare_Click(object sender, EventArgs e)
            A2();
        }
        private void btnActualizare_Click(object sender, EventArgs e)
            A7();
        }
        private void btnStergere_Click(object sender, EventArgs e)
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu, MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
            if (rezultat == DialogResult.No) return;
            A8();
        }
        private void btnSalvare_Click(object sender, EventArgs e)
            A4();
        }
        private void btnRenuntare Click(object sender, EventArgs e)
        {
            A3();
        }
        private void txtDLucrare Leave(object sender, EventArgs e)
            A5(txtDLucrare);
        }
```

```
private void btnRaportLucrari_Click(object sender, EventArgs e)
{
    LucrariReportForm f = new LucrariReportForm();
    f.ShowDialog();
}
}
```

LucrariReportForm.cs



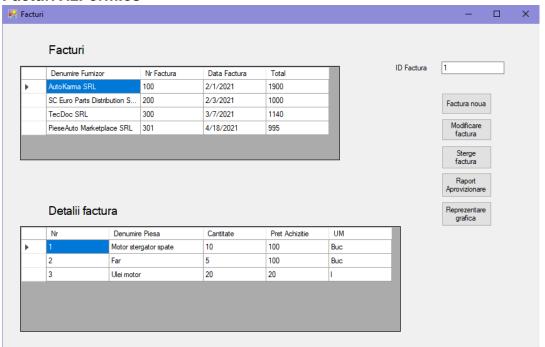
```
using Microsoft.Reporting.WinForms;
using System;
using System.Windows.Forms;

namespace CuzicGabriela
{
    public partial class LucrariReportForm : Form
    {
        public LucrariReportForm()
        {
             InitializeComponent();
        }
}
```

```
}
        private void LucrariReportForm Load(object sender, EventArgs e)
            // TODO: This line of code loads data into the 'ReportDS.Lucrari'
table. You can move, or remove it, as needed.
            //this.LucrariTableAdapter.Fill(this.ReportDS.Lucrari);
        }
        private void btnAfiseaza Click(object sender, EventArgs e)
            this.LucrariTableAdapter.Fill(this.ReportDS.Lucrari,
txtDLucrare.Text.ToString());
            //Pregatesc parametrii raportului
            ReportParameter[] parameters = new ReportParameter[1];
            if (txtDLucrare.Text != "")
                parameters[0] = new ReportParameter("Titlu", "Lista Lucrarilor ce
contin \"" + txtDLucrare.Text.ToString() + "\" in denumire");
            else parameters[0] = new ReportParameter("Titlu", "Lista Lucrarilor "
+ txtDLucrare.Text.ToString());
            //Comunicare parametrii
            this.reportViewer1.LocalReport.SetParameters(parameters);
            //Emit raport
            this.reportViewer1.RefreshReport();
        }
    }
}
```

3.2. Evenimente

FacturiVizForm.cs

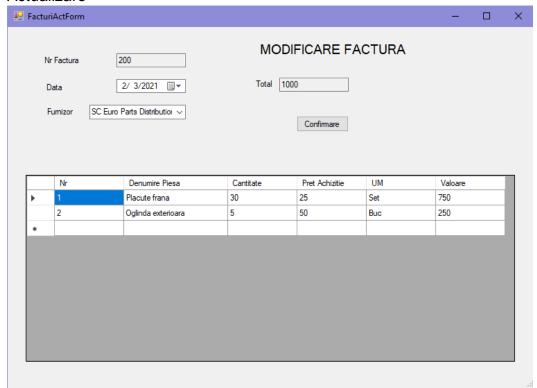


```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
    public partial class FacturiVizForm : Form
        public FacturiVizForm()
        {
            InitializeComponent();
        private void refreshGrid()
            facturiTableAdapter.Fill(dataSet1.Facturi);
            facturiContinutTableAdapter.Fill(dataSet1.FacturiContinut);
        public void position_grid(int p)
            facturiBindingSource.Position = p;
        }
        private void FacturiVizForm_Load(object sender, EventArgs e)
            refreshGrid();
            try
            {
                facturiContinutBindingSource.Filter = "IdFactura=" + txtIdFactura.Text;
            catch { }
        }
        private void facturiBindingSource_PositionChanged(object sender, EventArgs e)
            try
            {
                facturiContinutBindingSource.Filter = "IdFactura=" + txtIdFactura.Text;
            catch { }
        }
        private void btnFacturaNoua_Click(object sender, EventArgs e)
            FacturiActForm f = new FacturiActForm();
            f.ShowDialog();
            refreshGrid();
        }
        private void btnStergeFactura_Click(object sender, EventArgs e)
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu, MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
```

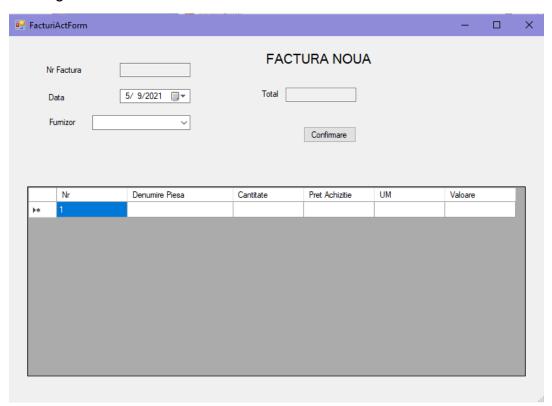
```
if (rezultat == DialogResult.No) return;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            int p = facturiBindingSource.Position;
            con.ConnectionString = facturiTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            // Sterg continut factura
            cmd.CommandText = "Delete From FacturiContinut Where IdFactura = " +
txtIdFactura.Text;
            MessageBox.Show(cmd.CommandText);
            con.Open();
            cmd.ExecuteNonQuery();
            // Sterg factura
            cmd.CommandText = "Delete From Facturi Where IdFactura = " +
txtIdFactura.Text;
            //MessageBox.Show("Stergere efectuata cu succes!");
            cmd.ExecuteNonQuery();
            con.Close();
            // Refresh grid-uri
            refreshGrid();
            position grid(p + 1);
            try
            {
                facturiContinutBindingSource.Filter = "IdFactura=" + txtIdFactura.Text;
            catch { }
        }
        private void btnModificaFactura_Click(object sender, EventArgs e)
            int p = facturiBindingSource.Position;
            FacturiActForm f = new FacturiActForm();
            f.completeazaTitlu("MODIFICARE FACTURA");
            f.bs1 = facturiBindingSource;
            f.bs2 = facturiContinutBindingSource;
            f.ShowDialog();
            refreshGrid();
            position_grid(p);
            try
            {
                facturiContinutBindingSource.Filter = "IdFactura=" + txtIdFactura.Text;
            catch { }
        }
        private void btnRaportAprovizionare Click(object sender, EventArgs e)
            AprovizionareReportForm f = new AprovizionareReportForm();
            f.ShowDialog();
        private void btnGrafic Click(object sender, EventArgs e)
            StatisticiAprovizionareForm f = new StatisticiAprovizionareForm();
            f.ShowDialog();
    }
}
```

FacturiActForm.cs

Actualizare



Adăugare



```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
    public partial class FacturiActForm : Form
        private OleDbConnection con = new OleDbConnection();
        private OleDbCommand cmd = new OleDbCommand();
        private OleDbDataReader rdr;
        private int idF;
        public BindingSource bs1;
        public BindingSource bs2;
        public FacturiActForm()
            InitializeComponent();
        private void FacturiActForm_Load(object sender, EventArgs e)
            A1();
        }
        private void A1()
            //Incarcare DataTable PieseAuto
            pieseAutoTableAdapter.Fill(dataSet1.PieseAuto);
            //Incarcare DataTable Furnizori
            furnizoriTableAdapter.Fill(dataSet1.Furnizori);
            // Protectie la modificare
            txtNrFactura.ReadOnly = true;
            txtTotal.ReadOnly = true;
            nrCrtDataGridViewTextBoxColumn.ReadOnly = true;
            uMDataGridViewTextBoxColumn.ReadOnly = true;
            //pretAchizitieDataGridViewTextBoxColumn.ReadOnly = true;
            //idPiesaAutoDataGridViewTextBoxColumn.ReadOnly = true;
            // Initializare cmbFurnizor
            if (lblOp.Text == "MODIFICARE FACTURA") completeazaFactura();
            else if (lblOp.Text == "FACTURA NOUA") cmbFurnizor.SelectedIndex = -1;
        }
        private void A2()
            if (!validareCampuriObligatorii()) return;
            if (lblOp.Text == "MODIFICARE FACTURA")
                modificaInregistrare();
                stergeContinut();
                adaugaInregistrariFacturiContinut();
                this.Close();
            else if (lblOp.Text == "FACTURA NOUA")
            { generez_nrF();
                adaugaInregistrareFacturi();
```

```
cautaInregistrare();
                adaugaInregistrariFacturiContinut();
                golireCampuri();
           }
       }
       private void A3()
           // Generare NrCrt
           DataRowView current =
(DataRowView)facturaContinutManevraBindingSource.Current;
           try { current["NrCrt"] = facturaContinutManevraBindingSource.Position + 1; }
           catch { }
       }
       private void A4()
           try
                if (dataGridView1.CurrentCell.ColumnIndex == 1)
                {
                    DataRowView current = (DataRowView)pieseAutoBindingSource.Current;
                    dataGridView1.CurrentRow.Cells[4].Value = current["UM"];
                    //dataGridView1.CurrentRow.Cells[3].Value = current["Pret"];
                    //dataGridView1.CurrentRow.Cells[6].Value = current["IdPiesaAuto"];
                    calcTotal();
                if (dataGridView1.CurrentCell.ColumnIndex == 3)
                    facturaContinutManevraBindingSource.EndEdit();
                    calcTotal();
                if (dataGridView1.CurrentCell.ColumnIndex == 2)
                    facturaContinutManevraBindingSource.EndEdit();
                    calcTotal();
           catch { }
       }
       private void A5(DataGridViewRowCancelEventArgs e)
           const string mesaj = "Confirmati stergerea";
           const string titlu = "Stergere inregistrare";
           var rezultat = MessageBox.Show(mesaj, titlu,
           MessageBoxButtons.YesNo,
           MessageBoxIcon.Warning);
           if (rezultat == DialogResult.No) e.Cancel = true;
       public void completeazaTitlu(String titlu)
           lblOp.Text = titlu;
        }
       private void completeazaFactura()
```

```
DataRowView current = (DataRowView)bs1.Current;
            idF = (int)current["IdFactura"];
            txtNrFactura.Text = Convert.ToString(current["NrFactura"]);
            cmbFurnizor.Text = current["DFurnizor"].ToString();
            txtTotal.Text = current["Total"].ToString();
            dateTimePicker1.Value = Convert.ToDateTime(current["DataFactura"]);
            bs2.MoveFirst();
            dataSet1.FacturaContinutManevra.Clear();
            for (int i = 1; i <= bs2.Count; i++)
                current = (DataRowView)bs2.Current;
                DataSet1.FacturaContinutManevraRow r =
dataSet1.FacturaContinutManevra.NewFacturaContinutManevraRow();
                r.NrCrt = Convert.ToInt16(current["NrCrt"]);
                r.DPiesa = Convert.ToString(current["DPiesa"]);
                r.UM = Convert.ToString(current["UM"]);
                r.PretAchizitie = Convert.ToDecimal(current["PretAchizitie"]);
                r.Cantitate = Convert.ToDecimal(current["Cantitate"]);
                r.IdPiesaAuto = Convert.ToInt32(current["IdPiesaAuto"]);
                r.Valoare = Convert.ToDecimal(current["Valoare"]);
                dataSet1.FacturaContinutManevra.Rows.Add(r);
                bs2.MoveNext();
            }
        }
        private void calcTotal()
        { // Calcul total valori
            decimal t = 0;
            foreach (DataRow r in dataSet1.FacturaContinutManevra)
            {
                if (r["Valoare"] != DBNull.Value)
                    t += (decimal)r["Valoare"];
            txtTotal.Text = Convert.ToString(t);
        }
        private void generez_nrF()
            con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "SELECT Max(Facturi.NrFactura) AS NrMax FROM Facturi";
            con.Open();
            rdr = cmd.ExecuteReader();
            rdr.Read();
            txtNrFactura.Text = Convert.ToString(rdr.GetInt32(0) + 1);
            rdr.Close();
            con.Close();
        }
        private bool validareCampuriObligatorii()
            //Validare de completare obligatorie campul Furnizor
            if (cmbFurnizor.Text == "")
                MessageBox.Show("Completati Furnizor !");
                cmbFurnizor.Focus();
                return false;
            }
```

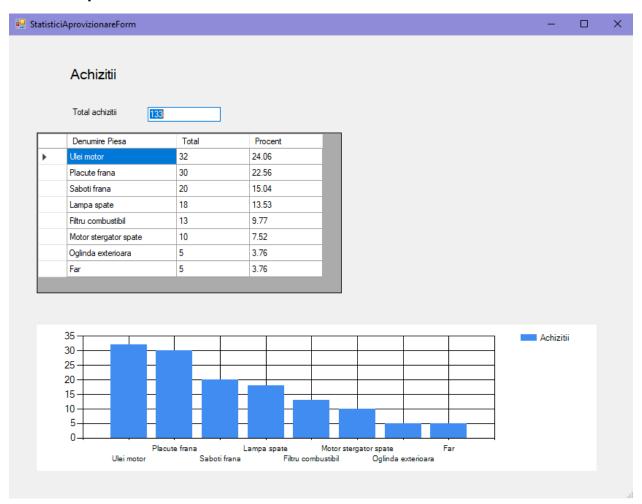
```
if (facturaContinutManevraBindingSource.Count == 0)
                MessageBox.Show("Completati continut factura !");
                dataGridView1.Focus();
                return false;
            if (dataGridView1.CurrentRow.Cells[2].Value.ToString() == "")
                MessageBox.Show("Completati pretul de achizitie !");
                dataGridView1.Focus();
                return false;
            if (dataGridView1.CurrentRow.Cells[3].Value.ToString() == "")
                MessageBox.Show("Completati cantitatea !");
                dataGridView1.Focus();
                return false;
            return true;
        }
        private void adaugaInregistrareFacturi()
            string listaCampuri;
            string listaValori;
            DateTime d = dateTimePicker1.Value;
            listaCampuri = "NrFactura, DataFactura, IdFurnizor";
            listaValori = txtNrFactura.Text +
            ",#" + Convert.ToString(d.Month) + "/"
            + Convert.ToString(d.Day) + "/"
            + Convert.ToString(d.Year) + "#,"
            + cmbFurnizor.SelectedValue;
            cmd.CommandText = "Insert into Facturi(" + listaCampuri + ") " +
            "Select " + listaValori;
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void cautaInregistrare()
            cmd.CommandText = "SELECT idFactura From Facturi Where NrFactura = " +
            txtNrFactura.Text;
            con.Open();
            rdr = cmd.ExecuteReader();
            rdr.Read();
            idF = rdr.GetInt32(0);
            rdr.Close();
            con.Close();
        }
        private void adaugaInregistrariFacturiContinut()
            string listaCampuri = "IdFactura, NrCrt, IdPiesaAuto, Cantitate,
PretAchizitie";
            string listaValori;
            con.Open();
```

// Validare completare continut

```
foreach (DataRow r in dataSet1.FacturaContinutManevra)
                //con.ConnectionString =
pieseAutoTableAdapter.Connection.ConnectionString;
                cmd.Connection = con;
                cmd.CommandText = "SELECT IdPiesaAuto FROM PieseAuto WHERE DPiesa=\"" +
r["DPiesa"] + "\"";
                //con.Open();
                rdr = cmd.ExecuteReader();
                rdr.Read();
                String IdPiesaAuto = Convert.ToString(rdr.GetInt32(0));
                rdr.Close();
                //con.Close();
                listaValori = idF + "," + r["NrCrt"] + "," + IdPiesaAuto + "," +
                r["Cantitate"] + "," + r["PretAchizitie"];
                cmd.CommandText = "Insert into FacturiContinut(" + listaCampuri + ") " +
                "Select " + listaValori;
                cmd.ExecuteNonQuery();
            con.Close();
        private void golireCampuri()
            txtNrFactura.Text = "";
            cmbFurnizor.SelectedIndex = -1;
            txtTotal.Text = "";
            dataSet1.FacturaContinutManevra.Clear();
        }
        private void stergeContinut()
            cmd.CommandText = "Delete from FacturiContinut Where IdFactura = " + idF;
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        private void modificaInregistrare()
            DateTime d = dateTimePicker1.Value;
            con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
cmd.Connection = con;
            string clauzaWhere = " Where IdFactura = " + idF;
            string clauzaSet = "Set DataFactura = #" + d.Month + "/" + d.Day + "/" +
d.Year + "#," + "IdFurnizor = " + cmbFurnizor.SelectedValue;
            cmd.CommandText = "Update Facturi " + clauzaSet + clauzaWhere;
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void facturaContinutManevraBindingSource_CurrentChanged(object sender,
EventArgs e)
        {
            A3();
        }
```

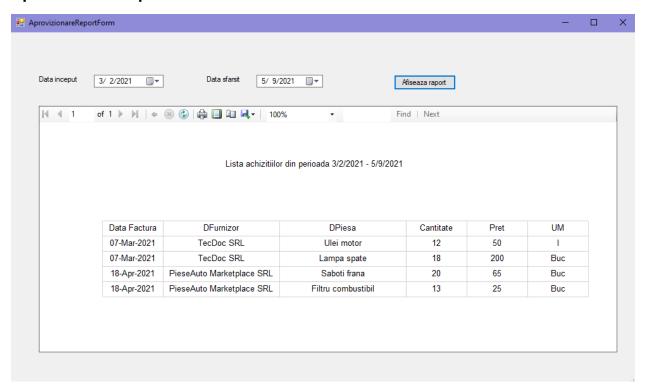
```
private void dataGridView1_CellValueChanged(object sender,
DataGridViewCellEventArgs e)
        {
            A4();
        }
        private void dataGridView1_UserDeletingRow(object sender,
DataGridViewRowCancelEventArgs e)
        {
            A5(e);
        }
        private void dataGridView1_DataError(object sender,
DataGridViewDataErrorEventArgs e)
        {
            MessageBox.Show("Format eronat");
        }
        private void dataGridView1_UserDeletedRow(object sender, DataGridViewRowEventArgs
e)
        {
            calcTotal();
        }
        private void btnConfirmare_Click(object sender, EventArgs e)
            A2();
        }
    }
}
```

StatisticiAprovizionareForm.cs



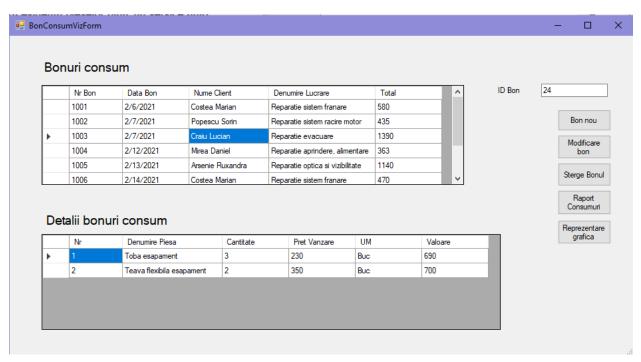
```
// TODO: This line of code loads data into the 'statDS.AchizitiiPieseAuto'
table. You can move, or remove it, as needed.
            this.achizitiiPieseAutoTableAdapter.Fill(this.statDS.AchizitiiPieseAuto);
            //Pregatire con si cmd
            con = achizitiiPieseAutoTableAdapter.Connection;
            cmd.Connection = con;
            //Total achizitii
            cmd.CommandText = "select sum(Cantitate) as Total from FacturiContinut";
            con.Open();
            rdr = cmd.ExecuteReader();
            rdr.Read();
            totalAchizitii = rdr.GetDecimal(0);
            con.Close();
            rdr.Close();
            txtTotalAchizitii.Text = "" + totalAchizitii;
            foreach (DataRow r in statDS.AchizitiiPieseAuto)
                decimal x;
                x = (decimal)r["Total"] / totalAchizitii;
                x = Math.Round(x, 4) * 100;
                x = Math.Round(x, 2);
                r["Procent"] = x;
            }
        }
    }
}
```

AprovizionareReportForm.cs



```
using System;
using System.Windows.Forms;
using Microsoft.Reporting.WinForms;
namespace CuzicGabriela
    public partial class AprovizionareReportForm : Form
        public AprovizionareReportForm()
            InitializeComponent();
        }
        private void AprovizionareReportForm Load(object sender, EventArgs e)
            // TODO: This line of code loads data into the 'ReportDS.Aprovizionare'
table. You can move, or remove it, as needed.
            //this.AprovizionareTableAdapter.Fill(this.ReportDS.Aprovizionare);
            //this.reportViewer1.RefreshReport();
        }
        private void btnAfiseaza_Click(object sender, EventArgs e)
            DateTime d1 = new DateTime(dateTimePicker1.Value.Year,
dateTimePicker1.Value.Month, dateTimePicker1.Value.Day);
            DateTime d2 = new DateTime(dateTimePicker2.Value.Year,
dateTimePicker2.Value.Month, dateTimePicker2.Value.Day);
            this.AprovizionareTableAdapter.Fill(this.ReportDS.Aprovizionare, d1, d2);
            //Pregatesc parametrii raportului
            ReportParameter[] parameters = new ReportParameter[1];
            parameters[0] = new ReportParameter("Titlu", "Lista achizitiilor din perioada
" + d1.ToShortDateString() +
                                                                      " - " +
d2.ToShortDateString());
            //Comunicare parametrii
            this.reportViewer1.LocalReport.SetParameters(parameters);
            //Emit raport
            this.reportViewer1.RefreshReport();
        }
   }
}
```

BonConsumVizForm.cs



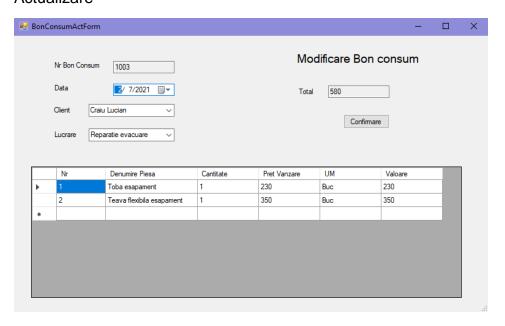
```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
    public partial class BonConsumVizForm : Form
        public BonConsumVizForm()
        {
            InitializeComponent();
        }
        private void refreshGrid()
            bonuriConsumTableAdapter.Fill(dataSet1.BonuriConsum);
            bonuriConsumContinutTableAdapter.Fill(dataSet1.BonuriConsumContinut);
        }
        public void position_grid(int p)
            bonuriConsumBindingSource.Position = p;
        private void BonConsumVizForm_Load(object sender, EventArgs e)
            refreshGrid();
            try
            {
```

```
bonuriConsumContinutBindingSource.Filter = "IdBonConsum=" +
txtIdBonConsum.Text;
            catch { }
        }
        private void bonuriConsumBindingSource PositionChanged(object sender, EventArgs
e)
        {
            try
                bonuriConsumContinutBindingSource.Filter = "IdBonConsum=" +
txtIdBonConsum.Text;
            catch { }
        }
        private void btnBonNou_Click(object sender, EventArgs e)
            BonConsumActForm f = new BonConsumActForm();
            f.ShowDialog();
            refreshGrid();
        }
        private void btnStergeBon_Click(object sender, EventArgs e)
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu, MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
            if (rezultat == DialogResult.No) return;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            int p = bonuriConsumBindingSource.Position;
            con.ConnectionString = bonuriConsumTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            // Sterg continut BonConsum
            cmd.CommandText = "Delete From BonuriConsumContinut Where IdBonConsum = " +
txtIdBonConsum.Text;
            //MessageBox.Show("Stergere realizata cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            // Sterg BonConsum
            cmd.CommandText = "Delete From BonuriConsum Where IdBonConsum = " +
txtIdBonConsum.Text;
            cmd.ExecuteNonQuery();
            con.Close();
            // Refresh grid-uri
            refreshGrid();
            position grid(p + 1);
            try
                bonuriConsumContinutBindingSource.Filter = "IdBonConsum=" +
txtIdBonConsum.Text;
            catch { }
        }
```

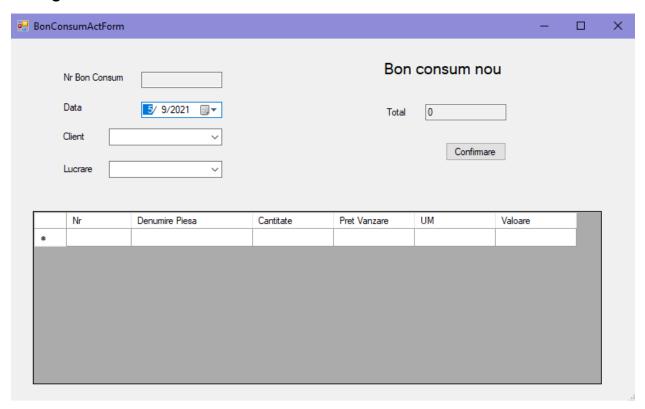
```
private void btnModificaBon_Click(object sender, EventArgs e)
            int p = bonuriConsumBindingSource.Position;
            BonConsumActForm f = new BonConsumActForm();
            f.completeazaTitlu("Modificare Bon consum");
            f.bs1 = bonuriConsumBindingSource;
            f.bs2 = bonuriConsumContinutBindingSource;
            f.ShowDialog();
            refreshGrid();
            position_grid(p);
            try
            {
                bonuriConsumContinutBindingSource.Filter = "IdBonConsum=" +
txtIdBonConsum.Text;
            catch { }
        }
        private void btnRaportConsumuri_Click(object sender, EventArgs e)
            ConsumReportForm f = new ConsumReportForm();
            f.ShowDialog();
        }
        private void btnGrafic_Click(object sender, EventArgs e)
            StatisticiConsumForm f = new StatisticiConsumForm();
            f.ShowDialog();
        }
    }
}
```

BonConsumActForm.cs

Actualizare



Adăugare



```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
    public partial class BonConsumActForm : Form
        private OleDbConnection con = new OleDbConnection();
        private OleDbCommand cmd = new OleDbCommand();
        private OleDbDataReader rdr;
        private int idB;
        public BindingSource bs1;
        public BindingSource bs2;
        public BonConsumActForm()
            InitializeComponent();
        }
        private void BonConsumActForm_Load(object sender, EventArgs e)
            // TODO: This line of code loads data into the 'dataSet1.PieseAuto' table.
You can move, or remove it, as needed.
            this.pieseAutoTableAdapter.Fill(this.dataSet1.PieseAuto);
            A1();
        }
```

```
private void A1()
            //Incarcare DataTable PieseAuto
            pieseAutoTableAdapter.Fill(dataSet1.PieseAuto);
            //Incarcare DataTable Furnizori
            clientiTableAdapter.Fill(dataSet1.Clienti);
            lucrariTableAdapter.Fill(dataSet1.Lucrari);
            // Protectie la modificare
            txtNrBonConsum.ReadOnly = true;
            txtTotal.ReadOnly = true;
            nrCrtDataGridViewTextBoxColumn.ReadOnly = true;
            uMDataGridViewTextBoxColumn.ReadOnly = true;
            pretVanzareDataGridViewTextBoxColumn.ReadOnly = true;
            //idPiesaAutoDataGridViewTextBoxColumn.ReadOnly = true;
            // Initializare cmbClient si cmbLucrare
            if (lblOp.Text == "Modificare Bon consum") completeazaBonConsum();
            else if (lblOp.Text == "Bon consum nou")
                cmbClient.SelectedIndex = -1;
                cmbLucrare.SelectedIndex = -1;
        }
        private void A2()
            if (!validareCampuriObligatorii()) return;
            if (!verificaStoc()) return;
            if (lblOp.Text == "Modificare Bon consum")
            {
                modificaInregistrare();
                stergeContinut();
                adaugaInregistrariBonuriConsumContinut();
                this.Close();
            else if (lblOp.Text == "Bon consum nou")
                generez_nrB();
                adaugaInregistrareBonuriConsum();
                cautaInregistrare();
                adaugaInregistrariBonuriConsumContinut();
                golireCampuri();
        }
        private void A3()
            // Generare NrCrt
            DataRowView current =
(DataRowView)bonConsumContinutManevraBindingSource.Current;
            try { current["NrCrt"] = bonConsumContinutManevraBindingSource.Position + 1;
}
            catch { }
        }
        private void A4()
            try
```

```
if (dataGridView1.CurrentCell.ColumnIndex == 1)
                    DataRowView current = (DataRowView)pieseAutoBindingSource.Current;
                    dataGridView1.CurrentRow.Cells[4].Value = current["UM"];
                    dataGridView1.CurrentRow.Cells[3].Value = current["Pret"];
                    dataGridView1.CurrentRow.Cells[6].Value = current["IdPiesaAuto"];
                    calcTotal();
                if (dataGridView1.CurrentCell.ColumnIndex == 3)
                    bonConsumContinutManevraBindingSource.EndEdit();
                    calcTotal();
                if (dataGridView1.CurrentCell.ColumnIndex == 4)
                    bonConsumContinutManevraBindingSource.EndEdit();
                    calcTotal();
                bonConsumContinutManevraBindingSource.EndEdit();
                calcTotal();
            catch { }
        }
        private void A5(DataGridViewRowCancelEventArgs e)
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu,
            MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
            if (rezultat == DialogResult.No) e.Cancel = true;
        }
        public void completeazaTitlu(String titlu)
            lblOp.Text = titlu;
        }
        private void completeazaBonConsum()
            DataRowView current = (DataRowView)bs1.Current;
            idB = (int)current["IdBonConsum"];
            txtNrBonConsum.Text = Convert.ToString(current["NrBonConsum"]);
            cmbClient.Text = current["DClient"].ToString();
            cmbLucrare.Text = current["DLucrare"].ToString();
            txtTotal.Text = current["Total"].ToString();
            dateTimePicker1.Value = Convert.ToDateTime(current["DataBonConsum"]);
            bs2.MoveFirst();
            dataSet1.BonConsumContinutManevra.Clear();
            for (int i = 1; i <= bs2.Count; i++)
                current = (DataRowView)bs2.Current;
                DataSet1.BonConsumContinutManevraRow r =
dataSet1.BonConsumContinutManevra.NewBonConsumContinutManevraRow();
                r.NrCrt = Convert.ToInt16(current["NrCrt"]);
```

{

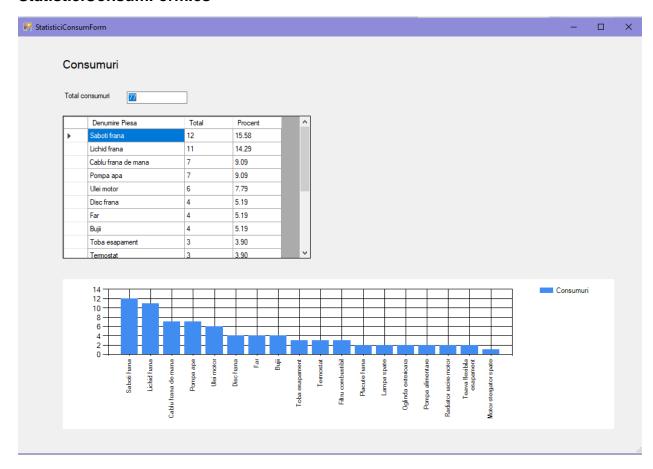
```
r.DPiesa = Convert.ToString(current["DPiesa"]);
                r.UM = Convert.ToString(current["UM"]);
                r.PretVanzare = Convert.ToDecimal(current["PretVanzare"]);
                r.Cantitate = Convert.ToDecimal(current["Cantitate"]);
                r.IdPiesaAuto = Convert.ToInt32(current["IdPiesaAuto"]);
                r.Valoare = Convert.ToDecimal(current["Valoare"]);
                dataSet1.BonConsumContinutManevra.Rows.Add(r);
                bs2.MoveNext();
            }
        }
        private void calcTotal()
        { // Calcul total valori
            decimal t = 0;
            foreach (DataRow r in dataSet1.BonConsumContinutManevra)
                if (r["Valoare"] != DBNull.Value)
                    t += (decimal)r["Valoare"];
            txtTotal.Text = Convert.ToString(t);
        }
        private Boolean verificaStoc()
            foreach (DataRow r in dataSet1.BonConsumContinutManevra)
                con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
                cmd.Connection = con;
                cmd.CommandText = "SELECT StocFinal FROM BalantaStoc bs LEFT OUTER JOIN
PieseAuto pa ON bs.IdPiesaAuto=pa.IdPiesaAuto WHERE pa.DPiesa=\"" + r["DPiesa"]+"\"";
                con.Open();
                rdr = cmd.ExecuteReader();
                rdr.Read();
                int stoc = rdr.GetInt32(0);
                //MessageBox.Show("Cantitate in stoc: "+stoc);
                rdr.Close();
                con.Close();
                if (r["Cantitate"] != DBNull.Value)
                    if (Convert.ToInt32(r["Cantitate"]) > stoc)
                        MessageBox.Show("Cantitate insuficienta in stoc pentru " +
r["DPiesa"]+ ". Cantitate in stoc: " + stoc);
                        dataGridView1.Focus();
                        return false;
                    }
                }
            }
            return true;
        }
        private void generez nrB()
            con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "SELECT Max(BonuriConsum.NrBonConsum) AS NrMax FROM
BonuriConsum";
            con.Open();
```

```
rdr = cmd.ExecuteReader();
    rdr.Read();
    txtNrBonConsum.Text = Convert.ToString(rdr.GetInt32(0) + 1);
    rdr.Close();
    con.Close();
}
private bool validareCampuriObligatorii()
    //Validare de completare obligatorie campul Client
    if (cmbClient.Text == "")
    {
        MessageBox.Show("Completati Client !");
        cmbClient.Focus();
        return false;
    //Validare de completare obligatorie campul Lucrare
    if (cmbLucrare.Text == "")
        MessageBox.Show("Completati Lucrarea !");
        cmbLucrare.Focus();
        return false;
    // Validare completare continut
    if (bonConsumContinutManevraBindingSource.Count == 0)
        MessageBox.Show("Completati continut bon consum !");
        dataGridView1.Focus();
        return false;
    if (dataGridView1.CurrentRow.Cells[4].Value.ToString() == "")
        MessageBox.Show("Completati cantitatea !");
        dataGridView1.Focus();
        return false;
    return true;
}
private void adaugaInregistrareBonuriConsum()
    string listaCampuri;
    string listaValori;
    DateTime d = dateTimePicker1.Value;
    listaCampuri = "NrBonConsum, DataBonConsum, IdClient, IdLucrare";
    listaValori = txtNrBonConsum.Text +
    ",#" + Convert.ToString(d.Month) + "/"
    + Convert.ToString(d.Day) + "/"
    + Convert.ToString(d.Year) + "#,"
    + cmbClient.SelectedValue + "," + cmbLucrare.SelectedValue;
    cmd.CommandText = "Insert into BonuriConsum(" + listaCampuri + ") " +
    "Select " + listaValori;
    con.Open();
    cmd.ExecuteNonQuery();
    con.Close();
}
private void cautaInregistrare()
```

```
{
            cmd.CommandText = "SELECT idBonConsum From BonuriConsum Where NrBonConsum = "
+
            txtNrBonConsum.Text;
            con.Open();
            rdr = cmd.ExecuteReader();
            rdr.Read();
            idB = rdr.GetInt32(0);
            rdr.Close();
            con.Close();
        }
        private void adaugaInregistrariBonuriConsumContinut()
            string listaCampuri = "IdBonConsum, NrCrt, IdPiesaAuto, Cantitate,
PretVanzare";
            string listaValori;
            con.Open();
            foreach (DataRow r in dataSet1.BonConsumContinutManevra)
                //con.ConnectionString =
pieseAutoTableAdapter.Connection.ConnectionString;
                cmd.Connection = con;
                cmd.CommandText = "SELECT IdPiesaAuto FROM PieseAuto WHERE DPiesa=\"" +
r["DPiesa"] +"\"";
                //con.Open();
                rdr = cmd.ExecuteReader();
                rdr.Read();
                String IdPiesaAuto =Convert.ToString(rdr.GetInt32(0));
                rdr.Close();
                //con.Close();
                listaValori = idB + "," + r["NrCrt"] + "," + IdPiesaAuto + "," +
                r["Cantitate"] + "," + r["PretVanzare"];
                cmd.CommandText = "Insert into BonuriConsumContinut(" + listaCampuri + ")
" +
                "Select " + listaValori;
                //MessageBox.Show(cmd.CommandText);
                cmd.ExecuteNonQuery();
            con.Close();
        }
        private void golireCampuri()
            txtNrBonConsum.Text = "";
            cmbClient.SelectedIndex = -1;
            cmbLucrare.SelectedIndex = -1;
            txtTotal.Text = "";
            dataSet1.BonConsumContinutManevra.Clear();
        }
        private void stergeContinut()
            cmd.CommandText = "Delete from BonuriConsumContinut Where IdBonConsum = " +
idB;
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
```

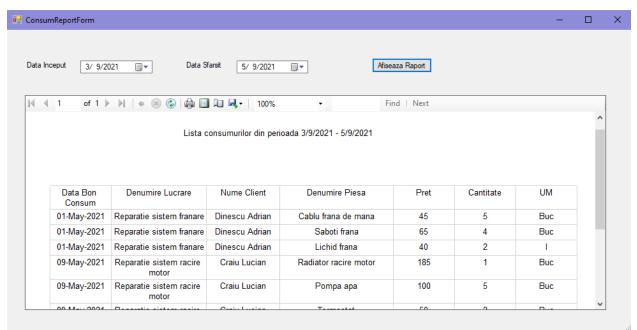
```
}
        private void modificaInregistrare()
            DateTime d1 = dateTimePicker1.Value;
            con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
cmd.Connection = con;
            string clauzaWhere = " Where IdBonConsum = " + idB;
            string clauzaSet = "Set DataBonConsum = #" + d1.Month + "/" + d1.Day + "/" +
d1.Year + "#," + "IdClient = " + cmbClient.SelectedValue + "," + "IdLucrare = " +
cmbLucrare.SelectedValue;
            cmd.CommandText = "Update BonuriConsum " + clauzaSet + clauzaWhere;
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void bonConsumContinutManevraBindingSource CurrentChanged(object sender,
EventArgs e)
        {
            A3();
        }
        private void dataGridView1_CellValueChanged(object sender,
DataGridViewCellEventArgs e)
        {
            A4();
            calcTotal();
        }
        private void dataGridView1 UserDeletingRow(object sender,
DataGridViewRowCancelEventArgs e)
        {
            A5(e);
        }
        private void dataGridView1_UserDeletedRow(object sender, DataGridViewRowEventArgs
e)
        {
            calcTotal();
        private void dataGridView1_DataError(object sender,
DataGridViewDataErrorEventArgs e)
        {
            MessageBox.Show("Format eronat");
        }
        private void btnConfirmare Click(object sender, EventArgs e)
            A2();
        }
    }
}
```

StatisticiConsumForm.cs



```
this.consumPieseAutoTableAdapter.Fill(this.statDS.ConsumPieseAuto);
            //Pregatire con si cmd
            con = consumPieseAutoTableAdapter.Connection;
            cmd.Connection = con;
            //Total consumuri
            cmd.CommandText = "select sum(Cantitate) as Total from BonuriConsumContinut";
            con.Open();
            rdr = cmd.ExecuteReader();
            rdr.Read();
            totalConsumuri = rdr.GetDecimal(0);
            con.Close();
            rdr.Close();
            txtTotalConsumuri.Text = "" + totalConsumuri;
            foreach (DataRow r in statDS.ConsumPieseAuto)
            {
                decimal x;
                x = (decimal)r["Total"] / totalConsumuri;
                x = Math.Round(x, 4) * 100;
                x = Math.Round(x, 2);
                r["Procent"] = x;
            }
        }
    }
}
```

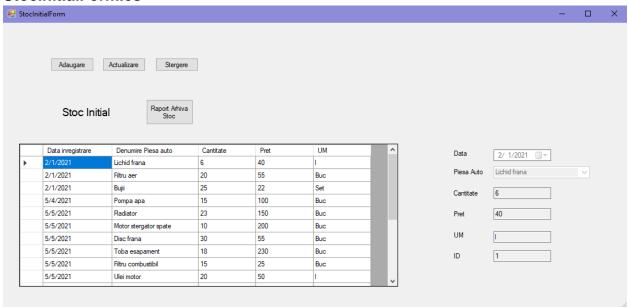
ConsumReportForm.cs



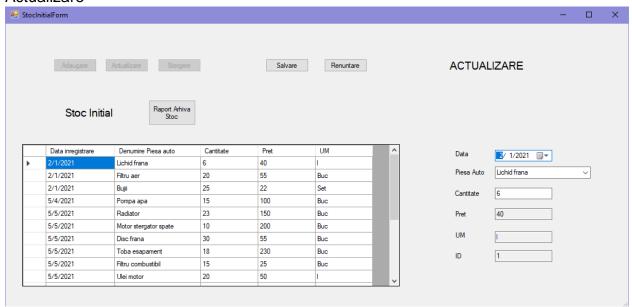
```
using Microsoft.Reporting.WinForms;
using System;
using System.Windows.Forms;
namespace CuzicGabriela
    public partial class ConsumReportForm : Form
        public ConsumReportForm()
            InitializeComponent();
        private void ConsumReportForm_Load(object sender, EventArgs e)
            // TODO: This line of code loads data into the 'ReportDS.Consum' table. You
can move, or remove it, as needed.
            //this.ConsumTableAdapter.Fill(this.ReportDS.Consum);
            //this.reportViewer1.RefreshReport();
        }
        private void btnAfiseaza_Click(object sender, EventArgs e)
            DateTime d1 = new DateTime(dateTimePicker1.Value.Year,
dateTimePicker1.Value.Month, dateTimePicker1.Value.Day);
            DateTime d2 = new DateTime(dateTimePicker2.Value.Year,
dateTimePicker2.Value.Month, dateTimePicker2.Value.Day);
            this.ConsumTableAdapter.Fill(this.ReportDS.Consum, d1, d2);
            //Pregatesc parametrii raportului
            ReportParameter[] parameters = new ReportParameter[1];
            parameters[0] = new ReportParameter("Title", "Lista consumurilor din perioada
" + d1.ToShortDateString() +
                                                                      " - " +
d2.ToShortDateString());
            //Comunicare parametrii
            this.reportViewer1.LocalReport.SetParameters(parameters);
            //Emit raport
            this.reportViewer1.RefreshReport();
            this.reportViewer1.DataBindings.Clear();
        }
   }
}
```

3.3. Arhivă

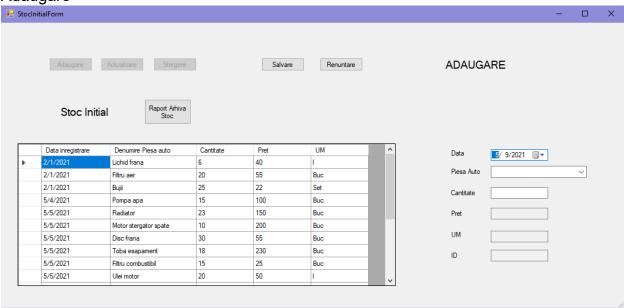
StocInitialForm.cs



Actualizare



Adăugare



```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
    public partial class StocInitialForm : Form
        public StocInitialForm()
            InitializeComponent();
        private void StocInitialForm_Load(object sender, EventArgs e)
            A1();
        }
        private void A1()
            //Umple cu date obiectele DataTable: StocInitial si PieseAuto (din DataSet):
            pieseAutoTableAdapter.Fill(dataSet1.PieseAuto);
            stocInitialTableAdapter.Fill(dataSet1.StocInitial);
            //Protectie grid
            dataGridView1.AllowUserToAddRows = false;
            dataGridView1.AllowUserToDeleteRows = false;
            dataGridView1.ReadOnly = true;
            //Protectie txtPret
            txtPret.ReadOnly = true;
            txtUM.ReadOnly = true;
            txtId.ReadOnly = true;
            A3();
        }
```

```
private void A2()
    //Configurare butoane
    configureazaButoane(false);
    //Dezlegare controale Panel
    legareControale(false);
    //Ridicare protectie controale Panel
    protectiePanel(false);
    //Modifcare lblOp
    lblOp.Text = "ADAUGARE";
    //Pozitionare cursor pe primul camp
    dateTimePicker1.Focus();
    // Golire campuri
    golireCampuri();
}
private void A3()
    //Initializare lblOp
    lblOp.Text = "";
    //Çonfigurare(butoane)
    configureazaButoane(true);
    //Protectie componente Panel
    protectiePanel(true);
    //Legare controale
    legareControale(true);
}
private void A4()
    if (lblOp.Text == "ADAUGARE")
        if (!validareCampuriObligatorii()) return;
        adauga_inregistrare();
        golireCampuri();
        //Pune cursor pe primul camp
        dateTimePicker1.Focus();
        refresh_grid(stocInitialBindingSource.Position);
        A2();
    else if (lblOp.Text == "ACTUALIZARE")
        if (!validareCampuriObligatorii()) return;
        modifica_inregistrare();
        refresh_grid(stocInitialBindingSource.Position);
        A3();
    }
   else
        MessageBox.Show("Operatie actualizare neefectuata");
}
private void A5(ComboBox cmbB)
    OleDbConnection con = new OleDbConnection();
    OleDbCommand cmd = new OleDbCommand();
    OleDbDataReader r;
    if (lbl0p.Text == "") return;
    if (cmbB.Text == "") return;
    if (btnRenuntare.Focused) return;
```

```
if (cmbB == cmbPiesaAuto)
                DateTime d = dateTimePicker1.Value;
                con.ConnectionString =
stocInitialTableAdapter.Connection.ConnectionString;
                cmd.Connection = con;
                if (lbl0p.Text == "ADAUGARE")
                    //cmd.CommandText = "Select IdStocInitial From StocInitial where
IdPiesaAuto=" + cmbPiesaAuto.SelectedValue + " and Data= #" + d.Month + "/" + d.Day + "/"
+ d.Year + "#":
                    cmd.CommandText = "Select IdStocInitial From StocInitial where
IdPiesaAuto=" + cmbPiesaAuto.SelectedValue;
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                        MessageBox.Show("Situatie existantă deja pentru piesa auto
selectată!");
                        cmbPiesaAuto.Focus();
                    con.Close();
                else if (lbl0p.Text == "ACTUALIZARE")
                    //cmd.CommandText = "Select IdStocInitial From StocInitial where
IdPiesaAuto=" + cmbPiesaAuto.SelectedValue + " and Data= #" + d.Month + "/" + d.Day + "/"
+ d.Year + "# and IdStocInitial<>"+txtId.Text;
                    cmd.CommandText = "Select IdStocInitial From StocInitial where
IdPiesaAuto=" + cmbPiesaAuto.SelectedValue + " and IdStocInitial<>" + txtId.Text;
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                        MessageBox.Show("Situatie existantă deja pentru piesa auto
selectată!");
                        cmbPiesaAuto.Focus();
                    con.Close();
                }
            }
        }
        private void A5(TextBox txtB)
            decimal p;
            if (lbl0p.Text == "") return;
            if (txtB.Text == "") return;
            if (btnRenuntare.Focused) return;
            if (txtB == txtCantitate)
                // Validare numericitate
                try { p = Convert.ToDecimal(txtB.Text); }
                catch { MessageBox.Show("Format eronat"); txtB.Focus(); }
            }
        }
```

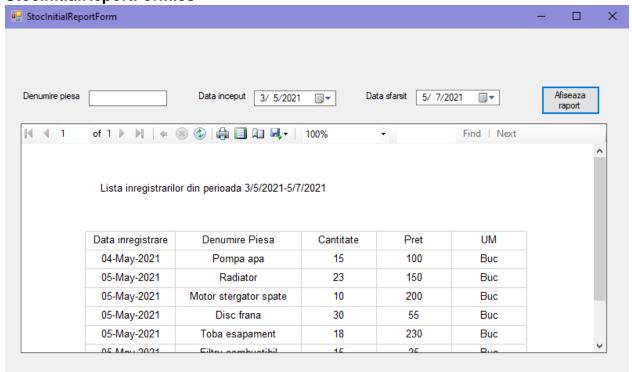
```
private void A7()
            //Configurare butoane
            configureazaButoane(false);
            //Dezlegare controale Panel
            legareControale(false);
            //Ridicare protectie controale Panel
            protectiePanel(false);
            //Modifcare lblOp
            lblOp.Text = "ACTUALIZARE";
            //Pozitionare cursor pe primul camp
            dateTimePicker1.Focus();
        }
        private void A8()
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Delete From StocInitial Where IdStocInitial = " +
txtId.Text;
            //MessageBox.Show("Inregistrare stearsa cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
            refresh_grid(stocInitialBindingSource.Position);
        }
        private void configureazaButoane(bool v)
            btnRenuntare.Visible = !v;
            btnSalvare.Visible = !v;
            btnAdaugare.Enabled = v;
            btnActualizare.Enabled = v;
            btnStergere.Enabled = v;
        private void legareControale(bool v)
            if (v)
            {
                dateTimePicker1.DataBindings.Add("Text", stocInitialBindingSource,
"Data");
                cmbPiesaAuto.DataBindings.Add("Text", stocInitialBindingSource,
"DPiesa");
                //txtPret.DataBindings.Add("Text", pieseAutoBindingSource, "Pret");
                txtId.DataBindings.Add("Text", stocInitialBindingSource,
"IdStocInitial");
                txtCantitate.DataBindings.Add("Text", stocInitialBindingSource,
"Cantitate1");
            }
            else
            {
                dateTimePicker1.DataBindings.Clear();
                cmbPiesaAuto.DataBindings.Clear();
                //txtPret.DataBindings.Clear();
                txtId.DataBindings.Clear();
                txtCantitate.DataBindings.Clear();
```

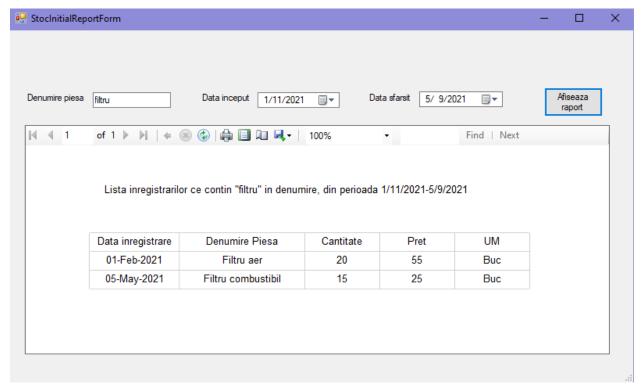
```
}
}
private void protectiePanel(bool v)
    dateTimePicker1.Enabled = !v;
    txtCantitate.ReadOnly = v;
    cmbPiesaAuto.Enabled = !v;
}
private void golireCampuri()
    dateTimePicker1.Text = "";
    cmbPiesaAuto.SelectedIndex = -1;
    cmbPiesaAuto.Text = "";
    txtPret.Text = "";
    txtUM.Text = "";
    txtId.Text = "";
   txtCantitate.Text = "";
private bool validareCampuriObligatorii()
    //Validare de completare obligatorie campurile: Cantitate, PiesaAuto
    if (cmbPiesaAuto.Text == "")
        MessageBox.Show("Alegeti piesa auto!");
        cmbPiesaAuto.Focus();
        return false;
    if (txtCantitate.Text == "")
        MessageBox.Show("Completati cantitatea!");
        txtCantitate.Focus();
        return false;
    if (dateTimePicker1.Text == "")
        MessageBox.Show("Alegeti data!");
        dateTimePicker1.Focus();
        return false;
    return true;
}
private void adauga_inregistrare()
    string listaCampuri;
    string listaValori;
    OleDbConnection con = new OleDbConnection();
    OleDbCommand cmd = new OleDbCommand();
    con.ConnectionString = stocInitialTableAdapter.Connection.ConnectionString;
    cmd.Connection = con;
    DateTime d = dateTimePicker1.Value;
    listaCampuri = "Data, IdPiesaAuto, Cantitate, Pret ";
    listaValori = "#" + Convert.ToString(d.Month) + "/"
    + Convert.ToString(d.Day) + "/"
    + Convert.ToString(d.Year) + "#"
    + "," + cmbPiesaAuto.SelectedValue +
    ",'" + txtCantitate.Text + "'"
    +",'"+ txtPret.Text+"'";
```

```
cmd.CommandText = "Insert into StocInitial(" + listaCampuri + ") " +
            "Select " + listaValori;
            //MessageBox.Show("Inregistrare adaugata cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
            golireCampuri();
            legareControale(false);
        }
        private void refresh_grid(int p)
            pieseAutoTableAdapter.Fill(dataSet1.PieseAuto);
            stocInitialTableAdapter.Fill(dataSet1.StocInitial);
            stocInitialBindingSource.Position = p;
        }
        private void modifica inregistrare()
            string listaSet;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            DateTime d = dateTimePicker1.Value;
            con.ConnectionString = stocInitialTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            listaSet = "Data = #" + d.Month + "/" + d.Day + "/" + d.Year + "#," +
            "IdPiesaAuto = " + cmbPiesaAuto.SelectedValue + "," +
            "Cantitate = '" + txtCantitate.Text + "'," +
            "Pret = '" + txtPret.Text + "'";
            cmd.CommandText = "Update StocInitial Set " + listaSet + " Where
IdStocInitial=" +
            txtId.Text;
            //MessageBox.Show("Actualizare efectuata cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void btnAdaugare_Click(object sender, EventArgs e)
            A2();
        private void btnActualizare_Click(object sender, EventArgs e)
            A7();
        }
        private void btnStergere Click(object sender, EventArgs e)
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu, MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
            if (rezultat == DialogResult.No) return;
            A8();
        }
        private void btnSalvare_Click(object sender, EventArgs e)
```

```
{
            A4();
        }
        private void btnRenuntare_Click(object sender, EventArgs e)
        {
            A3();
        }
        private void txtCantitate_Leave(object sender, EventArgs e)
            A5(txtCantitate);
        }
        private void cmbPiesaAuto_Leave(object sender, EventArgs e)
            A5(cmbPiesaAuto);
        }
        private void btnRaportStocInitial_Click(object sender, EventArgs e)
            StocInitialReportForm f = new StocInitialReportForm();
            f.ShowDialog();
        }
    }
}
```

StocInitialReportForm.cs





```
using Microsoft.Reporting.WinForms;
using System;
using System.Windows.Forms;
namespace CuzicGabriela
    public partial class StocInitialReportForm : Form
    {
        public StocInitialReportForm()
        {
            InitializeComponent();
        }
        private void StocInitialReportForm_Load(object sender, EventArgs e)
            // TODO: This line of code loads data into the 'ReportDS.StocInitial' table.
You can move, or remove it, as needed.
            //this.StocInitialTableAdapter.Fill(this.ReportDS.StocInitial);
            //this.reportViewer1.RefreshReport();
        }
        private void btnAfiseaza_Click(object sender, EventArgs e)
            DateTime d1 = new DateTime(dateTimePicker1.Value.Year,
dateTimePicker1.Value.Month, dateTimePicker1.Value.Day);
            DateTime d2 = new DateTime(dateTimePicker2.Value.Year,
dateTimePicker2.Value.Month, dateTimePicker2.Value.Day);
            this.StocInitialTableAdapter.Fill(this.ReportDS.StocInitial, d1, d2,
txtDPiesa.Text);
```

```
//Pregatesc parametrii raportului
    ReportParameter[] parameters = new ReportParameter[1];
    if (txtDPiesa.Text != "")
        parameters[0] = new ReportParameter("Titlu", "Lista inregistrarilor ce
contin \"" + txtDPiesa.Text.ToString() + "\" in denumire, din perioada " +
d1.ToShortDateString() + "-" + d2.ToShortDateString());
        else parameters[0] = new ReportParameter("Titlu", "Lista inregistrarilor din
perioada " + d1.ToShortDateString() + "-" + d2.ToShortDateString());

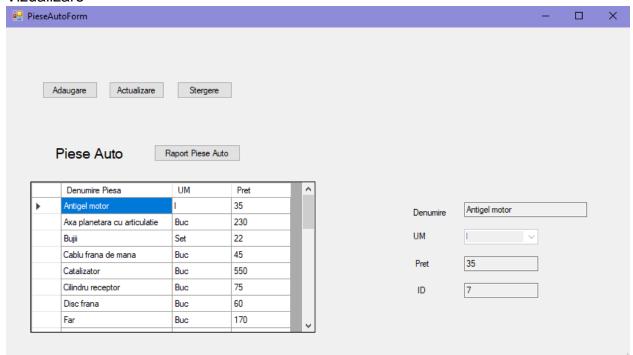
        //Comunicare parametrii
        this.reportViewer1.LocalReport.SetParameters(parameters);

        //Emit raport
        this.reportViewer1.RefreshReport();
    }
}
```

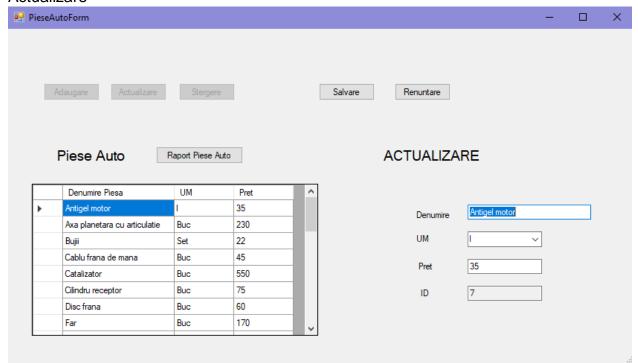
3.4. Tip resursă

PieseAutoForm.cs

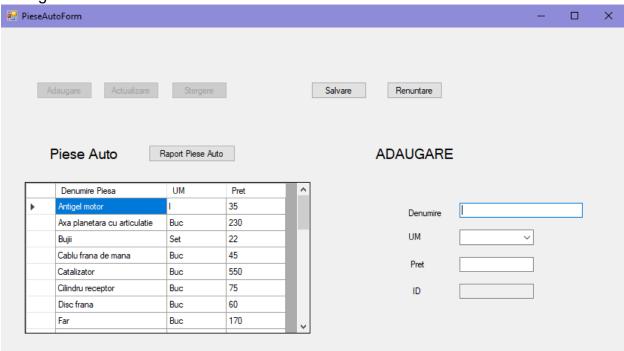
Vizualizare



Actualizare



Adăugare



```
using System;
using System.Windows.Forms;
using System.Data.OleDb;
namespace CuzicGabriela
    public partial class PieseAutoForm : Form
        public PieseAutoForm()
        {
            InitializeComponent();
        private void PieseAutoForm_Load(object sender, EventArgs e)
            A1();
        }
        private void A1()
            //Umple cu date obiectele DataTable: PieseAuto (din DataSet):
            pieseAutoTableAdapter.Fill(dataSet1.PieseAuto);
            //Protectie grid
            dataGridView1.AllowUserToAddRows = false;
            dataGridView1.AllowUserToDeleteRows = false;
            dataGridView1.ReadOnly = true;
            //Protectie txtIdPiesaAuto
            txtIdPiesaAuto.ReadOnly = true;
            A3();
        private void A2()
            //Configurare butoane
            configureazaButoane(false);
            //Dezlegare controale Panel
            legareControale(false);
            //Ridicare protectie controale Panel
            protectiePanel(false);
            //Modifcare lblOp
            lblOp.Text = "ADAUGARE";
            //Pozitionare cursor pe primul camp
            txtDPiesaAuto.Focus();
            // Golire campuri
            golireCampuri();
        }
        private void A3()
            //Initializare lblOp
            lblOp.Text = "";
            //Configurare(butoane)
            configureazaButoane(true);
            //Protectie componente Panel
            protectiePanel(true);
            //Legare controale
            legareControale(true);
```

```
private void A4()
            if (lblOp.Text == "ADAUGARE")
            {
                if (!validareCampuriObligatorii()) return;
                adauga inregistrare();
                golireCampuri();
                //Pune cursor pe primul camp
                txtDPiesaAuto.Focus();
                refresh grid(pieseAutoBindingSource.Position);
            else if (lbl0p.Text == "ACTUALIZARE")
                if (!validareCampuriObligatorii()) return;
                modifica_inregistrare();
                refresh grid(pieseAutoBindingSource.Position);
                A3();
            }
            else
                MessageBox.Show("Operatie actualizare neefectuata");
        }
        private void A5(TextBox txtB)
            decimal p;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            OleDbDataReader r;
            if (lbl0p.Text == "") return;
            if (txtB.Text == "") return;
            if (btnRenuntare.Focused) return;
            if(txtB == txtPret)
                // Validare numericitate
                try { p = Convert.ToDecimal(txtB.Text); }
                catch { MessageBox.Show("Format eronat"); txtB.Focus(); }
            else if (txtB == txtDPiesaAuto)
                con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
                cmd.Connection = con;
                if (lblOp.Text == "ADAUGARE")
                    cmd.CommandText = "Select IdPiesaAuto From PieseAuto where DPiesa='"
+ txtDPiesaAuto.Text + "'";
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                    {
                        MessageBox.Show("Piesa auto deja existentă!");
                        txtDPiesaAuto.Focus();
                    con.Close();
                else if (lblOp.Text == "ACTUALIZARE")
```

```
cmd.CommandText = "Select IdPiesaAuto From PieseAuto where DPiesa='"
+ txtDPiesaAuto.Text +
                    "' and IdPiesaAuto<> " + txtIdPiesaAuto.Text;
                    con.Open();
                    r = cmd.ExecuteReader();
                    if (r.Read())
                        MessageBox.Show("Piesa auto deja existentă!");
                        txtDPiesaAuto.Focus();
                    con.Close();
                }
            }
        }
        private void A7()
            //Configurare butoane
            configureazaButoane(false);
            //Dezlegare controale Panel
            legareControale(false);
            //Ridicare protectie controale Panel
            protectiePanel(false);
            //Modifcare lblOp
            lblOp.Text = "ACTUALIZARE";
            //Pozitionare cursor pe primul camp
            txtDPiesaAuto.Focus();
        }
        private void A8()
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            OleDbDataReader r;
            con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Select IdBonConsum,NrCrt From BonuriConsumContinut where
IdPiesaAuto=" + txtIdPiesaAuto.Text;
            con.Open();
            r = cmd.ExecuteReader();
            if (r.Read())
                MessageBox.Show("Piesa auto referită in tabela BonuriConusumContinut! Nu
se poate sterge!");
                con.Close();
                return;
            con.Close();
            con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Select IdFactura, NrCrt From FacturiContinut where
IdPiesaAuto=" + txtIdPiesaAuto.Text;
            con.Open();
            r = cmd.ExecuteReader();
            if (r.Read())
                MessageBox.Show("Piesa auto referită in tabela FacturiContinut! Nu se
poate sterge!");
                con.Close();
```

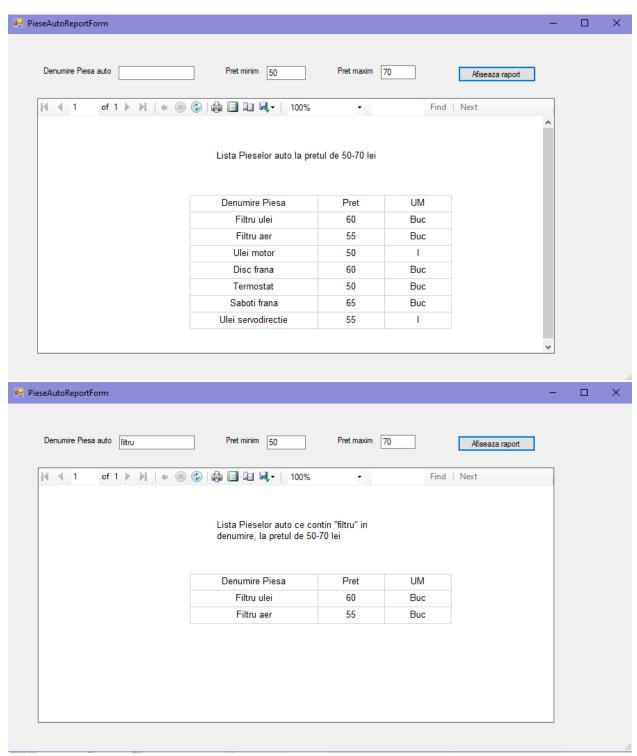
```
return;
            }
            con.Close();
            con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            cmd.CommandText = "Delete From PieseAuto Where IdPiesaAuto = " +
txtIdPiesaAuto.Text;
            //MessageBox.Show("Inregistrare stearsa cu succes!");
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
            refresh grid(pieseAutoBindingSource.Position);
        }
        private void configureazaButoane(bool v)
            btnRenuntare.Visible = !v;
            btnSalvare.Visible = !v;
            btnAdaugare.Enabled = v;
            btnActualizare.Enabled = v;
            btnStergere.Enabled = v;
        private void legareControale(bool v)
            if (v)
            {
                txtDPiesaAuto.DataBindings.Add("Text", pieseAutoBindingSource, "DPiesa");
                cmbUM.DataBindings.Add("Text", pieseAutoBindingSource, "UM");
                txtPret.DataBindings.Add("Text", pieseAutoBindingSource, "Pret");
                txtIdPiesaAuto.DataBindings.Add("Text", pieseAutoBindingSource,
"IdPiesaAuto");
            else
            {
                txtDPiesaAuto.DataBindings.Clear();
                cmbUM.DataBindings.Clear();
                txtPret.DataBindings.Clear();
                txtIdPiesaAuto.DataBindings.Clear();
        }
        private void protectiePanel(bool v)
            txtDPiesaAuto.ReadOnly = v;
            txtPret.ReadOnly = v;
            cmbUM.Enabled = !v;
        }
        private void golireCampuri()
            txtDPiesaAuto.Text = "";
            cmbUM.SelectedIndex = -1;
            txtPret.Text = "";
            txtIdPiesaAuto.Text = "";
        private bool validareCampuriObligatorii()
            //Validare de completare obligatorie campurile: Denumire, UM, Pret
            if (txtDPiesaAuto.Text == "")
            {
```

```
MessageBox.Show("Completati denumirea piesei auto!");
        txtDPiesaAuto.Focus();
        return false;
    if (txtPret.Text == "")
        MessageBox.Show("Completati pretul piesei auto!");
        txtPret.Focus();
        return false;
    if (cmbUM.Text == "")
        MessageBox.Show("Completati unitatea de masura!");
        cmbUM.Focus();
        return false;
    return true;
}
private void adauga inregistrare()
    string listaCampuri;
    string listaValori;
    OleDbConnection con = new OleDbConnection();
    OleDbCommand cmd = new OleDbCommand();
    con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
    cmd.Connection = con;
    listaCampuri = "DPiesa, Pret, UM";
    listaValori = "'" + txtDPiesaAuto.Text + "'" +
    ",'" + txtPret.Text + "'" +
    ",'" + cmbUM.Text + "'";
    cmd.CommandText = "Insert into PieseAuto(" + listaCampuri + ") " +
    "Select " + listaValori;
    //MessageBox.Show("Inregistrare adaugata cu succes!");
    con.Open();
    cmd.ExecuteNonQuery();
    con.Close();
private void refresh_grid(int p)
    pieseAutoTableAdapter.Fill(dataSet1.PieseAuto);
    pieseAutoBindingSource.Position = p;
}
private void modifica_inregistrare()
    string listaSet;
    OleDbConnection con = new OleDbConnection();
    OleDbCommand cmd = new OleDbCommand();
    con.ConnectionString = pieseAutoTableAdapter.Connection.ConnectionString;
    cmd.Connection = con;
    listaSet = "DPiesa = '" + txtDPiesaAuto.Text + "'," +
    "Pret = '" + txtPret.Text + "'," +
    "UM = '" + cmbUM.Text + "'";
    cmd.CommandText = "Update PieseAuto Set " + listaSet + " Where IdPiesaAuto="
    txtIdPiesaAuto.Text;
    //MessageBox.Show("Actualizare efectuata cu succes!");
```

+

```
con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void btnAdaugare_Click(object sender, EventArgs e)
            A2();
        }
        private void btnActualizare_Click(object sender, EventArgs e)
            A7();
        private void btnStergere_Click(object sender, EventArgs e)
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu, MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
            if (rezultat == DialogResult.No) return;
            A8();
        }
        private void btnSalvare_Click(object sender, EventArgs e)
            A4();
        }
        private void btnRenuntare_Click(object sender, EventArgs e)
            A3();
        }
        private void txtPret_Leave(object sender, EventArgs e)
            A5(txtPret);
        }
        private void txtDPiesaAuto_Leave(object sender, EventArgs e)
            A5(txtDPiesaAuto);
        }
        private void btnRaportPieseAuto_Click(object sender, EventArgs e)
            PieseAutoReportForm f = new PieseAutoReportForm();
            f.ShowDialog();
        }
    }
}
```

PieseAutoReportForm.cs



Codul:

```
using Microsoft.Reporting.WinForms;
using System;
using System.Windows.Forms;
```

```
namespace CuzicGabriela
    public partial class PieseAutoReportForm : Form
    {
        public PieseAutoReportForm()
            InitializeComponent();
        }
        private void PieseAutoReportForm Load(object sender, EventArgs e)
            // TODO: This line of code loads data into the 'ReportDS.PieseAuto' table.
You can move, or remove it, as needed.
            //this.PieseAutoTableAdapter.Fill(this.ReportDS.PieseAuto);
        }
        private void btnAfiseaza Click(object sender, EventArgs e)
            // Validare numericitate
            decimal p1,p2;
            try {
                p1 = Convert.ToDecimal(txtPretMinim.Text);
                p2 = Convert.ToDecimal(txtPretMaxim.Text);
                this.PieseAutoTableAdapter.Fill(this.ReportDS.PieseAuto, txtDPiesa.Text,
p1, p2);
                //Pregatesc parametrii raportului
                ReportParameter[] parameters = new ReportParameter[1];
                if (txtDPiesa.Text != "")
                    parameters[0] = new ReportParameter("Titlu", "Lista Pieselor auto ce
contin \"" + txtDPiesa.Text.ToString() + "\" in denumire, la pretul de " +
txtPretMinim.Text + "-" + txtPretMaxim.Text+" lei");
                else parameters[0] = new ReportParameter("Titlu", "Lista Pieselor auto la
pretul de " + txtPretMinim.Text + "-" + txtPretMaxim.Text+ " lei");
                //Comunicare parametrii
                this.reportViewer1.LocalReport.SetParameters(parameters);
                //Emit raport
                this.reportViewer1.RefreshReport();
            catch { MessageBox.Show("Completati pretul minim si maxim in format
numeric!"); txtPretMinim.Focus(); }
        }
    }
}
```

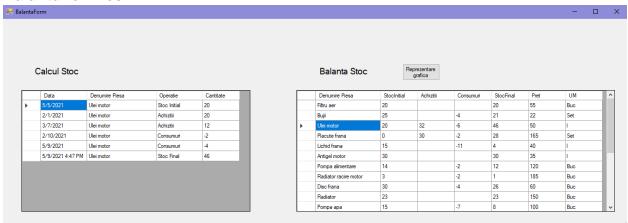
3.5. Resursă

Am folosit form-uri pentru prezentarea evaluării resursei printr-o balanță, utilizând dataSet-ul **BalDS.xsd** si clasa **CalculeStoc.cs**.

Codul clasei CalculeStoc.cs

```
using System;
using System.Data.OleDb;
using System.Windows.Forms;
namespace CuzicGabriela
    class CalculeStoc
        private static OleDbConnection con = new OleDbConnection();
        private static OleDbCommand cmd = new OleDbCommand();
        public static void calculStoc(string cs)
            con.ConnectionString = cs;
            cmd.Connection = con;
            con.Open();
            //Sterg continut tabelei CalculStoc
            cmd.CommandText = "Delete * from CalculStoc";
            cmd.ExecuteNonQuery();
            stocInitial(); intrari(); iesiri();stocFinal();
            con.Close();
        }
        private static void stocInitial()
            cmd.CommandText = "Insert into CalculStoc(IdOperatie, Data, IdPiesaAuto,
Cantitate) " +
                              "Select 1,Data, IdPiesaAuto, Cantitate " +
                              "From StocInitial";
            try { cmd.ExecuteNonQuery(); }
            catch (Exception ex) { MessageBox.Show(ex.Message); }
        private static void intrari()
            cmd.CommandText = "Insert into CalculStoc(IdOperatie, Data, IdPiesaAuto,
Cantitate) " +
                              "Select 2, Facturi. Data Factura as Data,
FacturiContinut.IdPiesaAuto, FacturiContinut.Cantitate " +
                              "From FacturiContinut LEFT OUTER JOIN Facturi ON
FacturiContinut.IdFactura=Facturi.IdFactura";
            try { cmd.ExecuteNonQuery(); }
            catch (Exception ex) { MessageBox.Show(ex.Message); }
        }
        private static void iesiri()
            cmd.CommandText = "Insert into CalculStoc(IdOperatie, Data, IdPiesaAuto,
Cantitate) " +
                   "Select 3, BonuriConsum. DataBonConsum as Data,
BonuriConsumContinut.IdPiesaAuto, -BonuriConsumContinut.Cantitate " +
                   "From BonuriConsumContinut LEFT OUTER JOIN BonuriConsum ON
BonuriConsumContinut.IdBonConsum=BonuriConsum.IdBonConsum";
            try { cmd.ExecuteNonQuery(); }
            catch (Exception ex) { MessageBox.Show(ex.Message); }
```

BalantaForm.cs

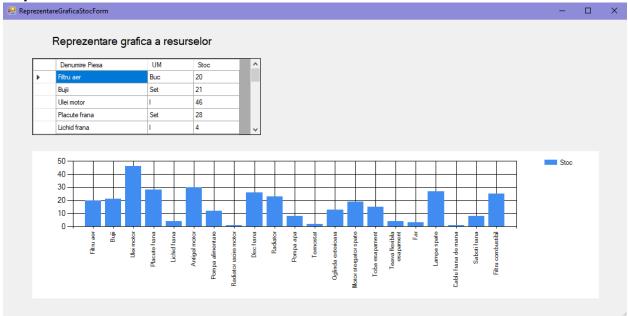


Codul:

```
con.Open();
            //Sterg continut tabela BalantaStoc
            cmd.CommandText = "Delete * from BalantaStoc";
            cmd.ExecuteNonQuery();
            con.Close();
            //Calcul stoc
            CalculeStoc.calculStoc(balantaTableAdapter.Connection.ConnectionString);
            calculStocTableAdapter.Fill(balDS.CalculStoc);
            con.Open();
            cmd.CommandText = "INSERT INTO BalantaStoc ( IdPiesaAuto, StocFinal )" +
                            " SELECT IdPiesaAuto, Cantitate FROM CalculStoc Where
IdOperatie=4";
            cmd.ExecuteNonQuery();
            con.Close();
            //Afisez balanta
            balantaTableAdapter.Fill(balDS.Balanta);
            con.Open();
            cmd.CommandText = "UPDATE BalantaStoc LEFT JOIN StocInitial ON
BalantaStoc.IdPiesaAuto = StocInitial.IdPiesaAuto " +
                              "SET BalantaStoc.StocInitial = StocInitial.Cantitate";
            cmd.ExecuteNonQuery();
            con.Close();
            //Afisez balanta
            balantaTableAdapter.Fill(balDS.Balanta);
            BalDSTableAdapters.AchizitiiTableAdapter taA = new
BalDSTableAdapters.AchizitiiTableAdapter();
            taA.Fill(balDS.Achizitii);
            DataRelation balAchizitii =
balDS.Relations.Add(balDS.Balanta.Columns["IdPiesaAuto"],
balDS.Achizitii.Columns["IdPiesaAuto"]);
            foreach (DataRow rb in balDS.Balanta)
                foreach (DataRow ri in rb.GetChildRows(balAchizitii))
                    rb["Achizitii"] = ri["Total"];
            BalDSTableAdapters.ConsumuriTableAdapter taC = new
BalDSTableAdapters.ConsumuriTableAdapter();
            taC.Fill(balDS.Consumuri);
            DataRelation balConsumuri =
balDS.Relations.Add(balDS.Balanta.Columns["IdPiesaAuto"],
balDS.Consumuri.Columns["IdPiesaAuto"]);
            foreach (DataRow rb in balDS.Balanta)
                foreach (DataRow ri in rb.GetChildRows(balConsumuri))
                    rb["Consumuri"] = ri["Total"];
            bs1 = balantaBindingSource;
            DataRowView current = (DataRowView)bs1.Current;
```

```
try
                calculStocBindingSource.Filter = "IdPiesaAuto=" +
current["IdPiesaAuto"].ToString();
            catch { }
        }
        private void balantaBindingSource_PositionChanged(object sender, EventArgs e)
            bs1 = balantaBindingSource;
            DataRowView current = (DataRowView)bs1.Current;
                calculStocBindingSource.Filter = "IdPiesaAuto=" +
current["IdPiesaAuto"].ToString();
            catch { }
        }
        private void btnGrafic_Click(object sender, EventArgs e)
            ReprezentareGraficaStocForm f = new ReprezentareGraficaStocForm();
            f.ShowDialog();
    }
}
```

ReprezentareGraficaStocForm.cs

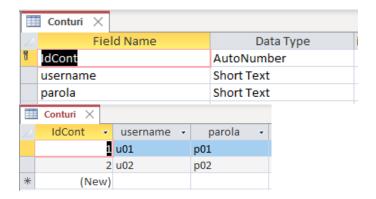


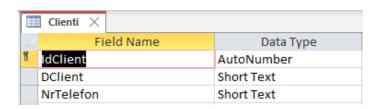
Codul:

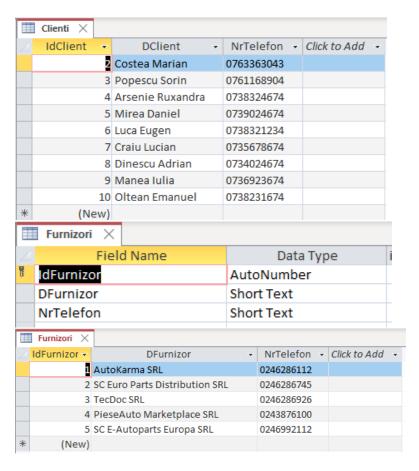
```
using System;
using System.Windows.Forms;
```

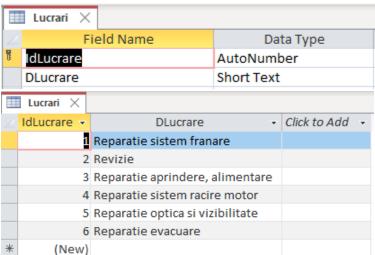
```
namespace CuzicGabriela
{
    public partial class ReprezentareGraficaStocForm : Form
    {
        public ReprezentareGraficaStocForm()
        {
             InitializeComponent();
        }
        private void ReprezentareGraficaStocForm_Load(object sender, EventArgs e)
        {
             this.stocTableAdapter.Fill(this.dataSet1.Stoc);
        }
    }
}
```

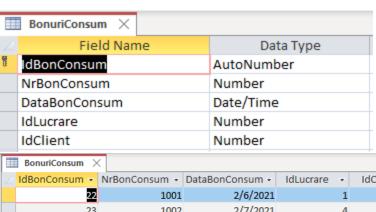
4. Baza de date











BonuriConsum	×			
∠ IdBonConsum →	NrBonConsum -	DataBonConsum →	IdLucrare +	IdClient → <i>Click</i>
22	1001	2/6/2021	1	2
23	1002	2/7/2021	4	3
24	1003	2/7/2021	6	7
25	1004	2/12/2021	3	5
26	1005	2/13/2021	5	4
27	1006	2/14/2021	1	2
28	1007	2/10/2021	2	2
31	1010	5/1/2021	1	8
34	1011	5/9/2021	4	7
* (New				0

	BonuriConsumContinut X	
/	Field Name	Data Type
Ü	IdBonConsum	Number
ij.	NrCrt	Number
	IdPiesaAuto	Number
	Cantitate	Currency
	PretVanzare	Currency

BonuriConsumCon	tinut X			
∠ IdBonConsum ▼	NrCrt +	IdPiesaAut →	Cantitate 🕶	PretVanz: •
22	1	11	4.00	60.00 lei
22	2	27	4.00	65.00 lei
22	3	6	2.00	40.00 lei
23	1	14	1.00	50.00 lei
23	2	10	1.00	185.00 lei
23	3	13	2.00	100.00 lei
24	1	19	3.00	230.00 lei
24	2	20	2.00	350.00 lei
25	1	29	3.00	25.00 lei
25	2	9	2.00	100.00 lei
25	3	3	4.00	22.00 lei
26	1	22	2.00	170.00 lei
26	2	23	2.00	200.00 lei
26	3	15	2.00	100.00 lei
26	4	17	1.00	200.00 lei
27	1	27	4.00	65.00 lei
27	2	26	2.00	45.00 lei
27	3	6	3.00	40.00 lei
28	1	4	2.00	50.00 lei
28	2	5	2.00	165.00 lei
28	3	22	2.00	170.00 lei
28	4	6	4.00	40.00 lei
31	1	26	5.00	45.00 lei
31	2	27	4.00	65.00 lei
31	3	6	2.00	40.00 lei
34	1	10	1.00	185 00 lei

	Facturi	×						
1		Field Nan	ne			Data Ty	/pe	
(i	IdFactura				Αu	itoNumber		
	NrFactur	a		1	Νu	ımber		
	DataFact	ura		1	Da	te/Time		
	IdFurnizo	or			Νu	ımber		
	Facturi X							
	IdFactu ▼	NrFactur -	Data	Factura	¥	IdFurnizor -	Click to Add	٠,
	þ	100		2/1/202	21	1		
	2	101		2/3/202	21	2		
	3	102		3/7/202	21	3		
	4	103		4/18/202	21	4		
*	(New)							
	FacturiConti	nut ×						
4		eld Name		D	ata	а Туре		
ii.	IdFactura			Number				
Ü	NrCrt			Number Number				
	IdPiesaAuto Cantitate)		Number Currency				
	PretAchiziti	e		Currency				

	FacturiContir	nut X					
4	IdFactura 🕶	NrCrt -	IdPiesaAut 🕶	Cantitate -	PretAchizitie 🕶	Click to Add	*
	1	1	17	10.00	100.00 lei		
	1	2	22	5.00	100.00 lei		
	1	3	4	20.00	20.00 lei		
	2	1	5	30.00	25.00 lei		
	2	2	15	5.00	50.00 lei		
	3	1	4	12.00	20.00 lei		
	3	2	23	18.00	50.00 lei		
	4	1	27	20.00	40.00 lei		
	4	2	29	13.00	15.00 lei		
*							

	StocInitial X	
	Field Name	Data Type
T.	IdStocInitial	AutoNumber
	Data	Date/Time
	IdPiesaAuto	Number
	Cantitate	Number
	Pret	Currency

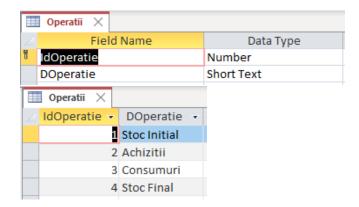
IdStocInitial	-	Data 🔻	IdPiesaAuto ▼	Cantitate 🕶	Pret
	1	2/1/2021	6	15.00	40.00 le
	2	2/1/2021	2	20.00	55.00 le
	3	2/1/2021	3	25.00	22.00 le
	4	5/4/2021	13	15.00	100.00 le
	5	5/5/2021	12	23.00	150.00 le
	7	5/5/2021	17	10.00	200.00 le
	8	5/5/2021	11	30.00	55.00 le
	9	5/5/2021	19	18.00	230.00 le
	10	5/5/2021	29	15.00	25.00 le
	12	5/5/2021	4	20.00	50.00 le
	13	5/8/2021	7	30.00	35.00 le
	14	5/8/2021	14	5.00	50.00 le
	15	5/8/2021	15	10.00	100.00 le
	16	5/8/2021	26	8.00	45.00 le
	17	5/8/2021	23	11.00	200.00 le
	18	5/8/2021	22	2.00	170.00 le
	19	5/8/2021	20	6.00	350.00 le
	20	5/8/2021	9	14.00	120.00 le
	21	5/8/2021	10	3.00	185.00 le
	24	5/9/2021	5	0.00	165.00 le
k (Ne	w)				

PieseAuto	×				
Fie	ld Name	1	Data T	ype	
IdPiesaAuto		AutoNu	mber		
DPiesa		Short Te	xt		
UM		Short Te			
Pret		Currenc			
		currenc	y		
■ PieseAuto ×					
∠ IdPiesaAuto ▼	DPiesa	¥	UM	→ Pret	¥
1	Filtru ulei		Buc	60.00 l	ei
2	Filtru aer		Buc	55.00 l	ei
3	Bujii		Set	22.00 l	ei
4	Ulei motor		I	50.00 l	ei
5	Placute frana		Set	165.00 l	ei
6	Lichid frana		I	40.00 l	ei
7	Antigel motor		I	35.00 l	ei
8	Axa planetara cu artic	culatie	Buc	230.00 l	ei
9	Pompa alimentare		Buc	120.00 l	ei
10	Radiator racire motor	-	Buc	185.00 l	ei
11	Disc frana		Buc	60.00 l	ei
12	Radiator		Buc	150.00 l	ei
13	Pompa apa		Buc	100.00 l	ei
14	Termostat		Buc	50.00 l	ei
15	Oglinda exterioara		Buc	100.00 l	ei
16	Ulei compresor		L	45.00 l	ei
17	Motor stergator spate	2	Buc	200.00 l	ei
18	Ventilator radiator		Buc	125.00 l	ei
19	Toba esapament		Buc	230.00 l	ei
20	Teava flexibila esapa	ment	Buc	350.00 l	ei
21	Catalizator		Buc	550.00 l	ei
22	Far		Buc	170.00 l	ei
23	Lampa spate		Buc	200.00 l	ei
24	Cilindru receptor		Buc	75.00 l	ei
25	Tambur		Buc	105.00 l	ei
26	Cahlu frana de mana		Ruc	45 00 I	οi

	BalantaStoc X	
	Field Name	Data Type
T.	IdPiesa Auto	Number
	StocInitial	Number
	Achizitii	Number
	Consumuri	Number
	StocFinal	Number

■ BalantaStoc ×				
/ IdPiesaAuto ▼	StocInitial -	Achizitii 🕶	Consumuri -	StocFinal -
2		71011121111	Consuman	20.00
3				21.00
4				46.00
5	0.00			28.00
6	15.00			4.00
7	30.00			30.00
9	14.00			12.00
10	3.00			1.00
11	30.00			26.00
12	23.00			23.00
13	15.00			8.00
14	5.00			2.00
15	10.00			13.00
17	10.00			19.00
19	18.00			15.00
20	6.00			4.00
22	2.00			3.00
23	11.00			27.00
26	8.00			1.00
27				8.00
29	15.00			25.00

Ⅲ CalculStoc ×			
Z Field Na	ime	Data Type	
IdOperatie	1	Number	
Data		Date/Time	
IdPiesaAuto		Number	
Cantitate	C	Currency	
■ CalculStoc ×			
∠ IdOperatie →	Data 🕶	IdPiesaAuto →	Cantitate -
1	2/1/2021	2	20.00
4	######################################	2	20.00
1	2/1/2021	3	25.00
3	2/12/2021	3	-4.00
4	***************************************	3	21.00
1	5/5/2021	4	20.00
2	2/1/2021	4	20.00
2	3/7/2021	4	12.00
3	5/9/2021	4	-4.00
3	2/10/2021	4	-2.00
4	***************************************	4	46.00
1	5/9/2021	5	0.00
2	2/3/2021	5	30.00
3	2/10/2021	5	-2.00
4	***************************************	5	28.00
1	2/1/2021	6	15.00
3			-2.00
3			-3.00
3			-2.00
3			-4.00
4	***************************************		4.00
1	5/8/2021		30.00
4	***************************************		30.00
1	5/8/2021	9	14.00
3			-2.00
	_,,		2,00



Tabelele bazei de date:

