

CURS 8 MPP

- Afisarea unei legaturi *one to many* folosind controalele ListBox (parinte) si GridView (copil)
- Afisarea produselor intr-un grid, cu poza acestora intr-o coloana a grid-ului
- Afisarea produselor intr-un grid, cu poza produsului selectat intr-un control *Image*
- Un model simplu de adaugare inregistrari intr-o tabela
- Un model simplu de editare si stergere inregistrari din grid

1. Afisarea unei legaturi *one to many* folosind controalele ListBox (parinte) si GridView (copil)

Pas 1. Baza de date contine doua tabele: una cu rol *parinte*, cealalta cu rol *copil* . De exemplu:

Produse(IdProdus, DProdus, Um, CotaTVA, PretVanzare, IdCategorie, SpPoza) => copil
Categorii(IdCategorie, DCategorie) => parinte

Pas 2. Crearea unei noi pagini OneToMany.aspx

Stergem sectiunea div.

Plasam doua controale, in sectiunea form, AccessDataSource. Schimbam Id-urile in ADS1 si ADS2.

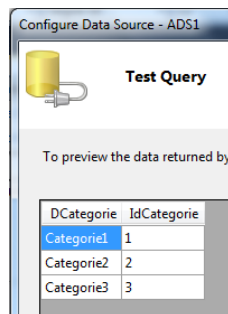
```
<body>
  <form id="form1" runat="server">
    <asp:AccessDataSource ID="ADS1" runat="server"></asp:AccessDataSource>
    <asp:AccessDataSource ID="ADS2" runat="server"></asp:AccessDataSource>
  </form>
</body>
```

Pas 3. Configuram controlul ADS1 ce va gestiona controlul ListBox (parinte):

- Intram in modul Design pe AccessDataSource Tasks => Configure Data Source
- Specificam baza de date (~/App_Data/BD1.accdb).
- Configuram cererea sql:

```
SELECT DCategorie, IdCategorie FROM Categorii ORDER BY DCategorie
```

- Test query



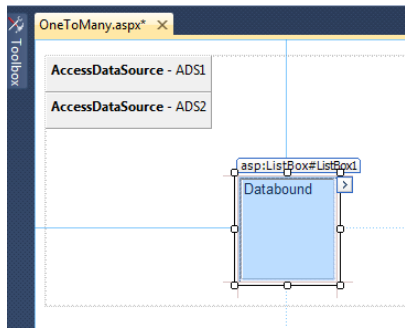
- Obtinem:

```
<asp:AccessDataSource ID="ADS1" runat="server" DataFile="~/App_Data/BD1.accdb"
  SelectCommand="SELECT DCategorie, IdCategorie FROM Categorii ORDER BY
  Categorie"></asp:AccessDataSource>
```

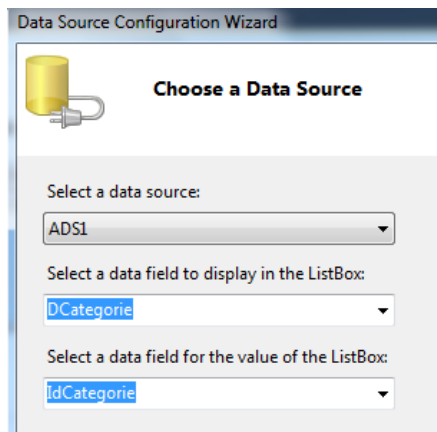
Pas 4. Plasam un control ListBox in sectiunea form. Adaugam optiunea style:

```
<asp:ListBox ID="ListBox1" runat="server" style="position: absolute"></asp:ListBox>
```

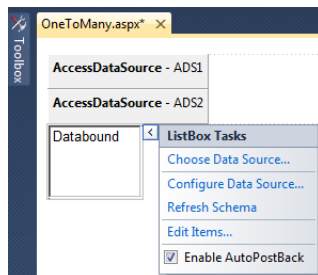
Deplasam controlul pe ecran, in modul Design.



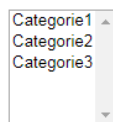
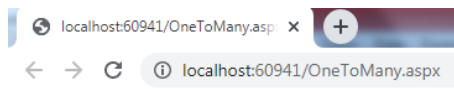
Pas 5. Configuram ListBox1 (in modul Design, ListBox Tasks):



- Selectam optiunea Enable AutoPostBack

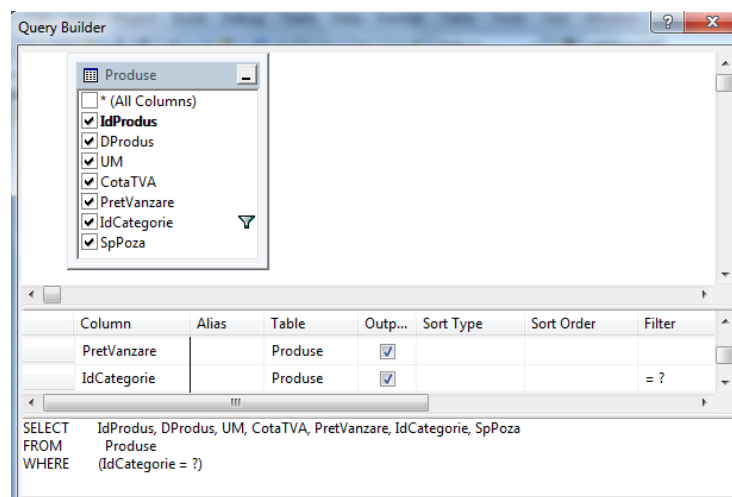


Putem da executie:

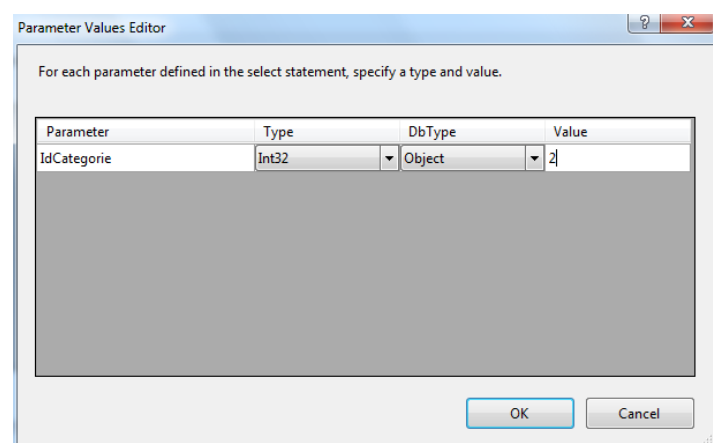
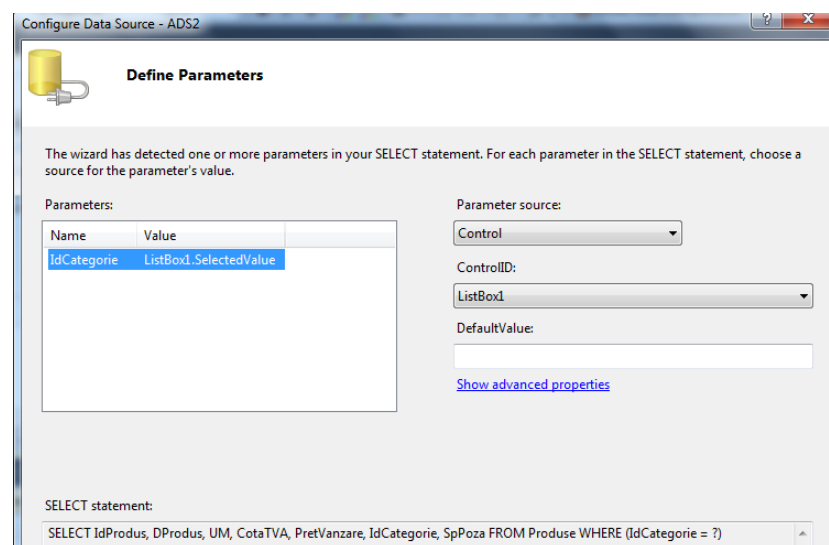


Pas 6. Configurarea controlului ADS2 ce va gestiona controlul GridView (copil).

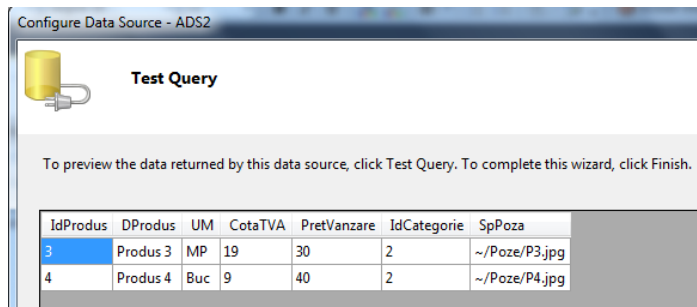
- Vom specifica o cerere sql parametrizata (Where IdCategorie=?).
- Click Ok, Next.



- Definim parametrii: Parameter source => Control, ControlId => ListBox1, Next, Test query



- Pentru testarea cererii trebuie sa introducem o valoare a parametrului (IdCategorie). Am introdus 2. Click Ok.



```
<asp:AccessDataSource ID="ADS2" runat="server" DataFile="~/App_Data/BD1.accdb"
    SelectCommand="SELECT [IdProdus], [DProdus], [UM], [CotaTVA], [PretVanzare], [IdCategorie], [SpPoza] FROM
    [Produse] WHERE ([IdCategorie] = ?)">
    <SelectParameters>
        <asp:ControlParameter ControlID="ListBox1" Name="IdCategorie"
            Type="Int32" />
    </SelectParameters>
</asp:AccessDataSource>
```

Observatii:

- S-a generat o cerere sql parametrizata: `WHERE ([IdCategorie] = ?)`
- S-a generat o sectiune `SelectParameters`, in cadrul careia avem descrierea fiecarui parametru.
- Valoarea parametrului este preluata din controlul `ControlID="ListBox1"` campul `Name="IdCategorie"` obtinut prin proprietatea `PropertyName="SelectedValue"` tipul de date `Type="Int32"`
- Putem testa cererea sql chiar daca este parametrizata. Trebuie doar sa specificam un set de valori pt. parametrii.

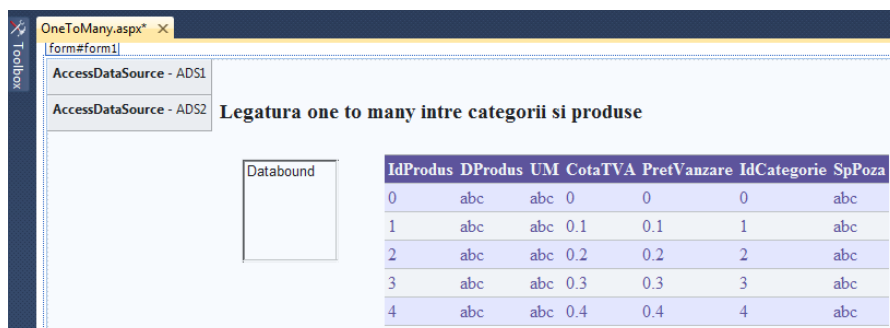
Pas 7. Plasarea unui control GridView (GV1). Specificam pozitionare absoluta.

Pas 8. Configurarea controlului GV1:

- Choose Data Source => ADS2
- AutoFormat
- Enable Paging (optional)
- Enable Sorting (optional)

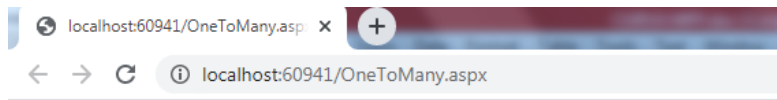
Pas 9. Adaugam o eticheta (pozitionare absoluta) pe post de titlu: Legatura one to many intre categorii si produse, Font (size 14, Bold True)

Pas 10. Obtinem (modul design)



Pas 11. Executie:

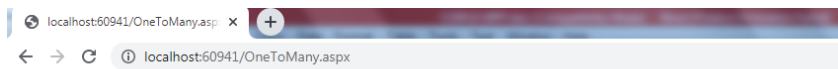
- Initial se afiseaza:



Legatura one to many intre categorii si produse

▲
 Categorie1
 Categorie2
 Categorie3
 ▼

- Selectam prima categorie, obtinem:

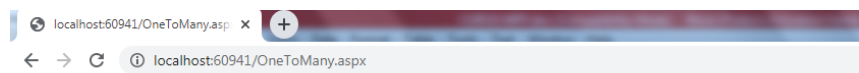


Legatura one to many intre categorii si produse

▲
 Categorie1
 Categorie2
 Categorie3
 ▼

IdProdus	DProdus	UM	CotaTVA	PretVanzare	IdCategorie	SpPoza
1	Produs 10	Kg	190	10	1	~/Poze/P1.jpg
2	Produs 2	Buc	19	20	1	~/Poze/P2.jpg

- Selectam a 2-a categorie, obtinem:

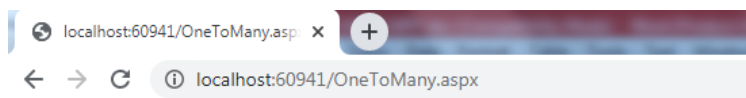


Legatura one to many intre categorii si produse

▲
 Categorie1
 Categorie2
 Categorie3
 ▼

IdProdus	DProdus	UM	CotaTVA	PretVanzare	IdCategorie	SpPoza
3	Produs 3	MP	19	30	2	~/Poze/P3.jpg
4	Produs 4	Buc	9	40	2	~/Poze/P4.jpg

- Selectam a 3-a categorie, obtinem:



Legatura one to many intre categorii si produse

▲
 Categorie1
 Categorie2
 Categorie3
 ▼

- Obs. Categorie3 nu are produse.
- Daca dorim sa fie selectata prima categorie, la prima incarcare a paginii, trebuie sa definim metoda eveniment Page_Load:

```
protected void Page_Load(object sender, EventArgs e) {
    if (!IsPostBack) {
        ListBox1.SelectedIndex = 0;
    }
}
```

2. Afisarea produselor intr-un grid, cu poza acestora intr-o coloana a grid-ului

Pas 1. Crearea unei tabele cu produse ce contin specificatorul unui fisier imagine:

Produse(IdProdus, Dprodus, Um, CotaTVA, PretVanzare, SpPoza)

SpPoza contine calea si numele fisierului imagine sub forma:

~/Poze/NumeFisier.extensie

Unde Poze este un subdirector al aplicatiei WEB.

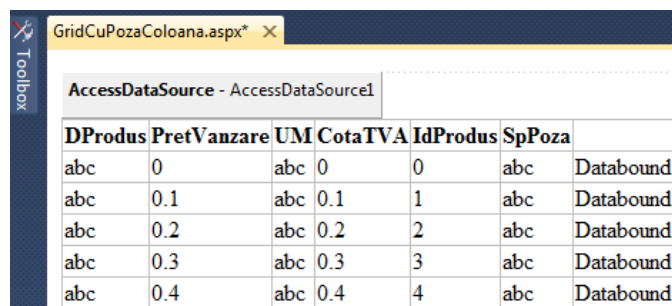
- Click dreapta pe numele aplicatiei in Solution Explorer.
- Add
- New Folder (Poze)
- Plasam fisiere imagine in subdirectorul Poze Click dr pe subdirectorul Poze, Add, Existing item, selectie fisier)

Pas 2. Adaugarea si configurarea unui control AccessDataSource. Cererea sql este:

```
SELECT    IdProdus, DProdus, UM, CotaTVA, PretVanzare, IdCategorie, SpPoza
FROM      Produse
```

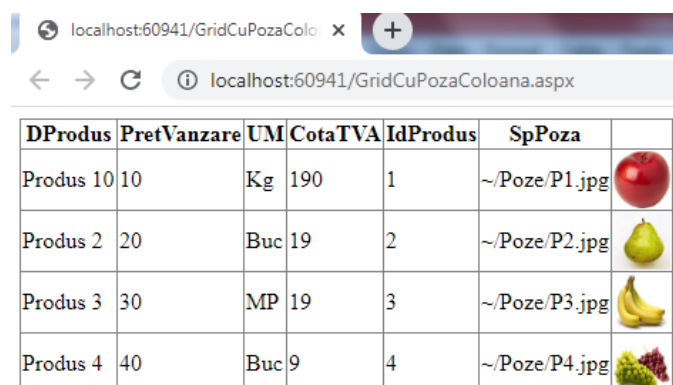
Pas 3. Adaugarea si configurarea unui control GridView.





- GridView Tasks: Choose Data Source => AccessDataSource1
- GridView Tasks: Add New Column => Choose a field type => Image field
⇒ Data field => SpPoza=> Ok



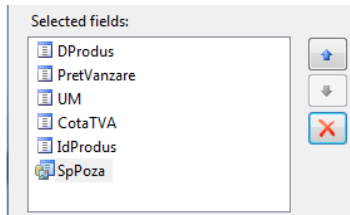
DProdus	PretVanzare	UM	CotaTVA	IdProdus	SpPoza
abc	0	abc	0	0	abc
abc	0.1	abc	0.1	1	abc
abc	0.2	abc	0.2	2	abc
abc	0.3	abc	0.3	3	abc
abc	0.4	abc	0.4	4	abc

- Configuram proprietatea Control style a coloanei imagine (Edit columns) : Height=40 px, width = 40 px.
-
- Executie:







DProdus	PretVanzare	UM	CotaTVA	IdProdus	SpPoza
Produs 10	10	Kg	190	1	~/Poze/P1.jpg 
Produs 2	20	Buc	19	2	~/Poze/P2.jpg 
Produs 3	30	MP	19	3	~/Poze/P3.jpg 
Produs 4	40	Buc	9	4	~/Poze/P4.jpg 

Pas 4. Daca nu vrem sa se afiseze in grid calea fisierului imagine, eliminam prin Edit columns coloana respectiva.



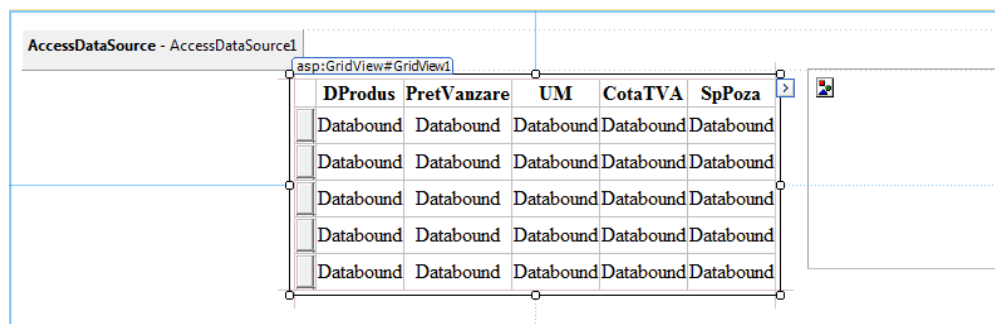
- Executie:

localhost:60941/GridCuPozaColoana.aspx

DProdus	PretVanzare	UM	CotaTVA	IdProdus	
Produs 10	10	Kg	190	1	
Produs 2	20	Buc	19	2	
Produs 3	30	MP	19	3	
Produs 4	40	Buc	9	4	

3. Afisarea produselor intr-un grid, cu poza produsului selectat, intr-un control *Image*

- Adaugam un control AccessDataSource si-l configuram.
- Adaugam un control GridView si-l configuram. Adaugam mecanismul de selectie.
- Adaugam un control Image.

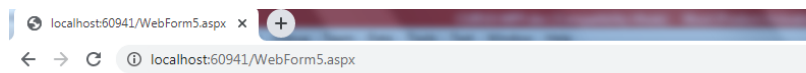


- Cream metoda eveniment GridView1_SelectedIndexChanged:

```
namespace Curs7Web {
    public partial class WebForm5 : System.Web.UI.Page {
        protected void Page_Load(object sender, EventArgs e) {
            if (!IsPostBack) {
                GridView1.SelectedIndex = 0;
                Image1.ImageUrl = GridView1.SelectedRow.Cells[5].Text;
            }
        }

        protected void GridView1_SelectedIndexChanged(object sender, EventArgs e) {
            Image1.ImageUrl = GridView1.SelectedRow.Cells[5].Text;
        }
    }
}
```

- Pentru a avea selectie si afisare poza la incarcarea paginii va trebui sa avem si metoda Page_Load.
- Executie:



DProdus	PretVanzare	UM	CotaTVA	SpPoza
Produs 10	10	Kg	190	~Poze/P1.jpg
Produs 2	20	Buc	19	~Poze/P2.jpg
Produs 3	30	MP	19	~Poze/P3.jpg
Produs 4	40	Buc	9	~Poze/P4.jpg



4. Un model simplu de adaugare inregistrari intr-o tabela

Pas 1. Adaugam si configuram un control AccessDataSource. Cererea sql:

```
SELECT DProdus, PretVanzare, UM, CotaTVA, IdProdus FROM Produse ORDER BY DProdus
```

Pas 2. Adaugam si configuram un control GridView.

Pas 3. Adaugam o pereche Label – TextBox pt. DProdus

Adaugam o pereche Label – TextBox pt. PretVanzare

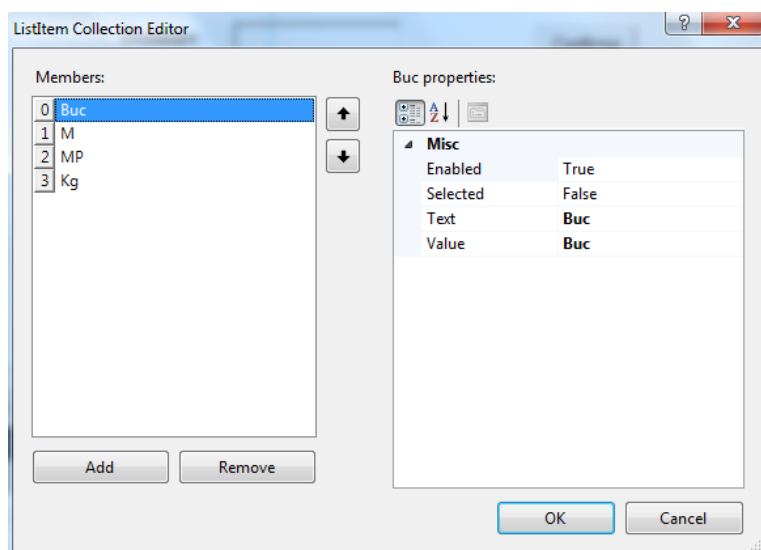
Adaugam o pereche Label – DropDownList pt. UM

Adaugam o pereche Label – DropDownList pt. CotaTVA

Adaugam un buton Confirma

Pas 4. Configuram datele constante pt. controalele DropDownList:

DropDownList Tasks => Edit items => Add => Text => Add => Text ... OK



Pas 5. Metoda eveniment BtnConfirma_Click

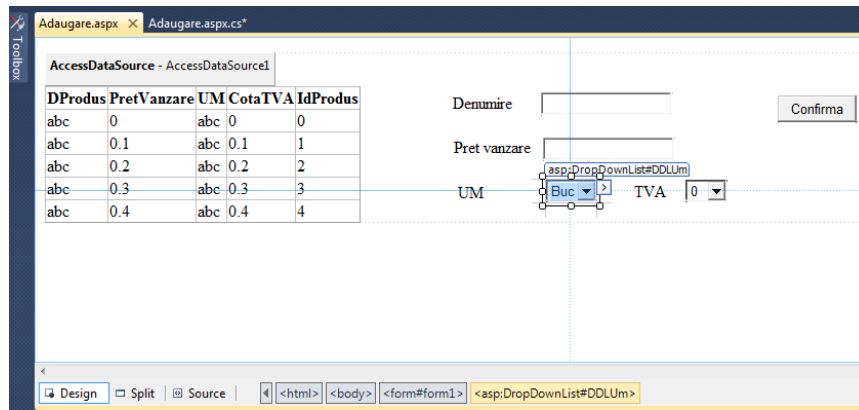
```
protected void BtnConfirma_Click(object sender, EventArgs e) {
    OleDbConnection con = new OleDbConnection();
    OleDbCommand cmd = new OleDbCommand();

    con.ConnectionString = AccessDataSource1.ConnectionString;
    cmd.Connection = con;
    cmd.CommandText = "Insert into Produse(DProdus, PretVanzare,UM,CotaTVA) " +
        "Values('" + TxtDProdus.Text + "','" + TxtPretVanzare.Text + "','" + DDLUm.Text + "','" +
        DDLTva.Text + "')";

    con.Open();
    cmd.ExecuteNonQuery();
    con.Close();
    GridView1.DataBind(); //Refresh
}
```

Obs. Ca si la Windows Forms trebuie sa adaugam `using System.Data.OleDb;`

- Structura paginii in modul Design



- Continutul paginii in modul Source:

```
<form id="form1" runat="server">
<asp:AccessDataSource ID="AccessDataSource1" runat="server"
    DataFile="~/App_Data/BD1.accdb" SelectCommand="SELECT DProdus, PretVanzare, UM, CotaTVA, IdProdus FROM
        Produse ORDER BY Produs"></asp:AccessDataSource>
<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
    DataKeyNames="IdProdus" DataSourceID="AccessDataSource1">
    <Columns>
        <asp:BoundField DataField="DProdus" HeaderText="DProdus"
            SortExpression="DProdus" />
        <asp:BoundField DataField="PretVanzare" HeaderText="PretVanzare"
            SortExpression="PretVanzare" />
        <asp:BoundField DataField="UM" HeaderText="UM" SortExpression="UM" />
        <asp:BoundField DataField="CotaTVA" HeaderText="CotaTVA"
            SortExpression="CotaTVA" />
        <asp:BoundField DataField="IdProdus" HeaderText="IdProdus"
            InsertVisible="False" ReadOnly="True" SortExpression="IdProdus" />
    </Columns>
</asp:GridView>
<asp:DropDownList ID="DDLTVa" runat="server"
    style="position: absolute; top: 139px; left: 635px;">
    <asp:ListItem>0</asp:ListItem>
    <asp:ListItem>5</asp:ListItem>
    <asp:ListItem>9</asp:ListItem>
    <asp:ListItem>19</asp:ListItem>
</asp:DropDownList>
<asp:Label ID="Label4" runat="server" Text="UM"
    style="position: absolute; top: 142px; left: 413px;"></asp:Label>
<asp:DropDownList ID="DDLUM" runat="server"
    style="position: absolute; top: 139px; left: 499px;">
    <asp:ListItem>Buc</asp:ListItem>
    <asp:ListItem>M</asp:ListItem>
    <asp:ListItem>MP</asp:ListItem>
    <asp:ListItem>Kg</asp:ListItem>
</asp:DropDownList>
<asp:Label ID="Label3" runat="server" Text="Pret vanzare"
    style="position: absolute; top: 98px; left: 409px;"></asp:Label>
<asp:TextBox ID="TxtDProdus" runat="server"
    style="position: absolute; top: 54px; left: 494px;"></asp:TextBox>
<asp:Label ID="Label1" runat="server" Text="TVA"
    style="position: absolute; top: 141px; left: 585px;"></asp:Label>
<asp:Label ID="Label2" runat="server" Text="Denumire"
    style="position: absolute; top: 55px; left: 408px;"></asp:Label>
<asp:Button ID="BtnConfirma" runat="server" Text="Confirma"
    style="position: absolute; top: 57px; left: 725px;"
    onclick="BtnConfirma_Click"/>
<asp:TextBox ID="TxtPretVanzare" runat="server"
    style="position: absolute; top: 98px; left: 496px;"></asp:TextBox>
</form>
```

- Executie:

localhost:60941/Adaugare.aspx

DProdus	PretVanzare	UM	CotaTVA	IdProdus
Produs 10	10	Kg	190	1
Produs 2	20	Buc	19	2
Produs 3	30	MP	19	3
Produs 4	40	Buc	9	4
Produs 5	35	Kg	19	6
Produs 6	15	MP	9	7
Produs 7	25	Buc	19	8

Denumire:

Pret vanzare:

UM: TVA:

Se introduc datele. Click Confirma.

localhost:60941/Adaugare.aspx

DProdus	PretVanzare	UM	CotaTVA	IdProdus
Produs 10	10	Kg	190	1
Produs 2	20	Buc	19	2
Produs 3	30	MP	19	3
Produs 4	40	Buc	9	4
Produs 5	35	Kg	19	6
Produs 6	15	MP	9	7
Produs 7	25	Buc	19	8
Produs 8	45	Kg	19	12

Denumire:

Pret vanzare:

UM: TVA:

Se face refresh-ul grid-ului si se golesc campurile. La DDL-uri se face pozitionare pe prima valoare din lista.

Obs. Nu se face validarea cheii semantice.

5. Un model simplu de editare si stergere inregistrari din grid

Pas 1. Adaugam si configuram un control AccessDataSource.

Configure Data Source - AccessDataSource1

Configure the Select Statement

How would you like to retrieve data from your database?

☐ Specify a custom SQL statement or stored procedure

☒ Specify columns from a table or view

Name:

Columns:

- ☐ *
- ☒ IdProdus
- ☒ DProdus
- ☒ UM
- ☒ CotaTVA
- ☒ PretVanzare
- ☒ IdCategorie
- ☒ SpPoz

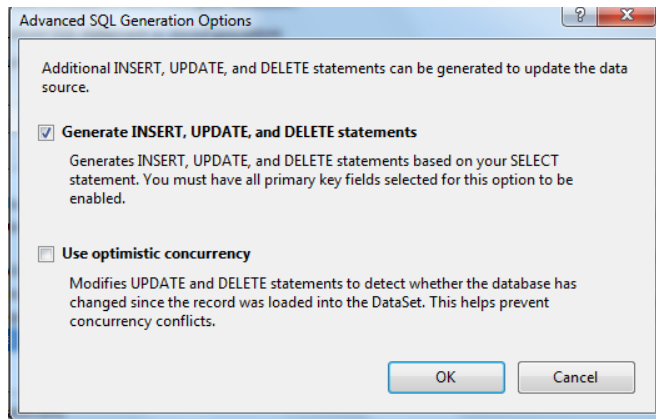
☐ Return only unique rows

SELECT statement:

SELECT [IdProdus], [DProdus], [UM], [CotaTVA], [PretVanzare], [IdCategorie], [SpPoz] FROM [Produce]

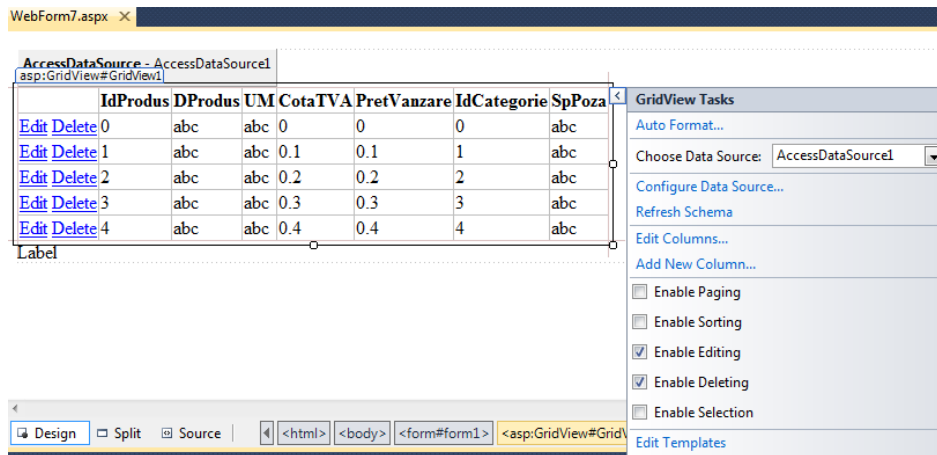
Obs. Configurarea se face cu optiunea Specify columns from a table or view

- Click Advanced

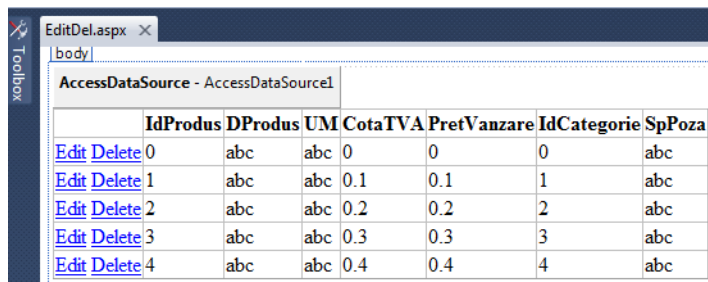


- Lasam nebifat use optimistic concurrency. OK.

Pas 2. Adaugam si configuram un control GridView.



- Bifam Enable Editing si Enable Deleting
- Structura paginii (Design):



- Textul paginii (Source):

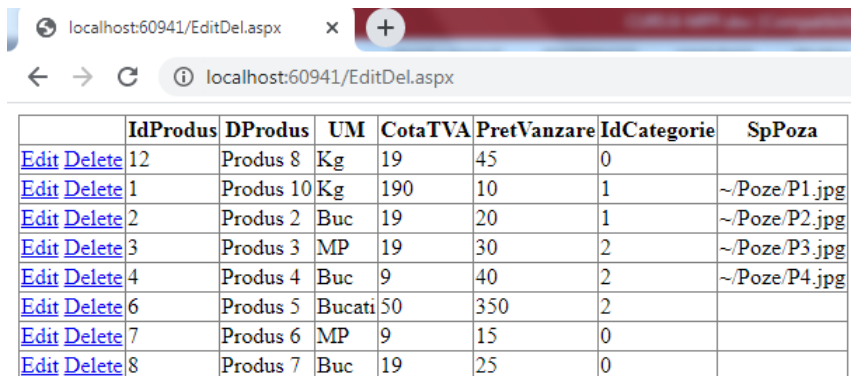
```
<form id="form1" runat="server">
  <asp:AccessDataSource ID="AccessDataSource1" runat="server"
    DataFile="~/App_Data/BD1.accdb"
    DeleteCommand="DELETE FROM [Produse] WHERE [IdProdus] = ?"
    InsertCommand="INSERT INTO [Produse] ([IdProdus], [DProdus], [UProdus], [CotaTVA], [PretVanzare],
      [IdCategorie], [SpPoz]) VALUES (?, ?, ?, ?, ?, ?, ?)"
    SelectCommand="SELECT [IdProdus], [DProdus], [UProdus], [CotaTVA], [PretVanzare], [IdCategorie],
      [SpPoz] FROM [Produse]"
    UpdateCommand="UPDATE [Produse] SET [DProdus] = ?, [UProdus] = ?, [CotaTVA] = ?, [PretVanzare] = ?,
      [IdCategorie] = ?, [SpPoz] = ? WHERE [IdProdus] = ?">
    <DeleteParameters>
      <asp:Parameter Name="IdProdus" Type="Int32" /> </DeleteParameters>
    <InsertParameters>
      <asp:Parameter Name="IdProdus" Type="Int32" />
      <asp:Parameter Name="DProdus" Type="String" />
      <asp:Parameter Name="UProdus" Type="String" />
      <asp:Parameter Name="CotaTVA" Type="Decimal" />
      <asp:Parameter Name="PretVanzare" Type="Decimal" />
    </form>
```

```

        <asp:Parameter Name="IdCategorie" Type="Int32" />
        <asp:Parameter Name="SpPoza" Type="String" />
    </InsertParameters>
    <UpdateParameters>
        <asp:Parameter Name="DProdus" Type="String" />
        <asp:Parameter Name="UM" Type="String" />
        <asp:Parameter Name="CotaTVA" Type="Decimal" />
        <asp:Parameter Name="PretVanzare" Type="Decimal" />
        <asp:Parameter Name="IdCategorie" Type="Int32" />
        <asp:Parameter Name="SpPoza" Type="String" />
        <asp:Parameter Name="IdProdus" Type="Int32" />
    </UpdateParameters>
</asp:AccessDataSource>
<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
    DataKeyNames="IdProdus" DataSourceID="AccessDataSource1">
    <Columns>
        <asp:CommandField ShowDeleteButton="True" ShowEditButton="True" />
        <asp:BoundField DataField="IdProdus" HeaderText="IdProdus"
            InsertVisible="False" ReadOnly="True" SortExpression="IdProdus" />
        <asp:BoundField DataField="DProdus" HeaderText="DProdus"
            SortExpression="DProdus" />
        <asp:BoundField DataField="UM" HeaderText="UM" SortExpression="UM" />
        <asp:BoundField DataField="CotaTVA" HeaderText="CotaTVA"
            SortExpression="CotaTVA" />
        <asp:BoundField DataField="PretVanzare" HeaderText="PretVanzare"
            SortExpression="PretVanzare" />
        <asp:BoundField DataField="IdCategorie" HeaderText="IdCategorie"
            SortExpression="IdCategorie" />
        <asp:BoundField DataField="SpPoza" HeaderText="SpPoza"
            SortExpression="SpPoza" />
    </Columns>
</asp:GridView>
</form>

```

- Executie: initial avem pagina:



	IdProdus	DProdus	UM	CotaTVA	PretVanzare	IdCategorie	SpPoza
Edit Delete	12	Produs 8	Kg	19	45	0	
Edit Delete	1	Produs 10	Kg	190	10	1	~/Poze/P1.jpg
Edit Delete	2	Produs 2	Buc	19	20	1	~/Poze/P2.jpg
Edit Delete	3	Produs 3	MP	19	30	2	~/Poze/P3.jpg
Edit Delete	4	Produs 4	Buc	9	40	2	~/Poze/P4.jpg
Edit Delete	6	Produs 5	Bucati	50	350	2	
Edit Delete	7	Produs 6	MP	9	15	0	
Edit Delete	8	Produs 7	Buc	19	25	0	

- Se apasa Edit. In locul lui Edit apare Update. Se editeaza linia dorita, apoi se apasa Update sau Cancel.

Obs. Nu se fac validari.