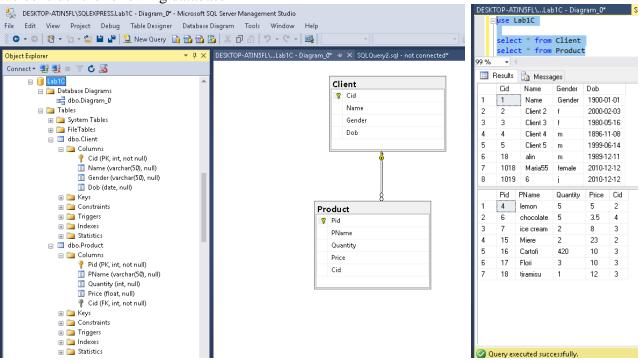
## Laboratory 1

3 labs to present

L1: receive: Lab 1 (S1/S2)
 Present: Lab 3 (S5/S6)
L2: receive: Lab 3 (S5/S6)
 Present: Lab 4 (S7/S8)
L3: receive: Lab 4 (S7/S8)
 Present: Lab 6 (S11/S12)
Practical Exam: Lab 7 (S13/S14)

Connection between SQL SERVER – VISUAL STUDIO (C#) – through a WINDOWS FORMS APPLICATION / WINDOWS FORMS APP (.NET FRAMEWORK)

We consider the following database



Client- parent table Product – child table

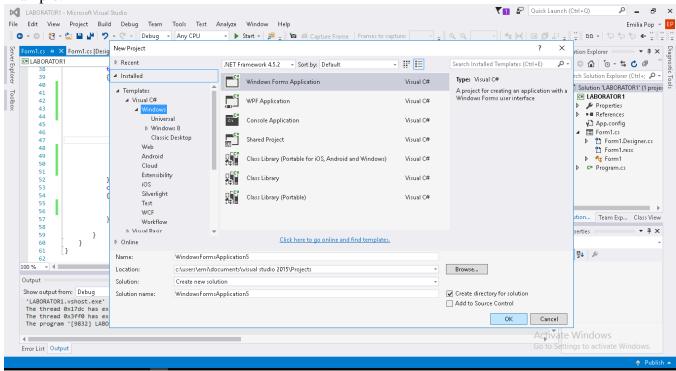
- Display all parent records SELECT \* FROM Client
- 2. Selecting a parent record, it must display its child records SELECT \* FROM Product WHERE Cid=... (the one that is selected from the list of the clients)
- 3. Selecting a child record, it must allow to remove or update the data of the child DELETE FROM Product WHERE Pid=... (the one that is selected)

  UPDATE Product SET PName=@p, Quantity=@q, Price=@pr, Cid=...(preferable a list of of clients from where to choose) WHERE Pid = ... (the one that is selected)

4. Selecting a parent record, it must allow to add a new child record INSERT INTO Product(PName, Quantity, Price, Cid) VALUES (@pname, @q, @p, ...)

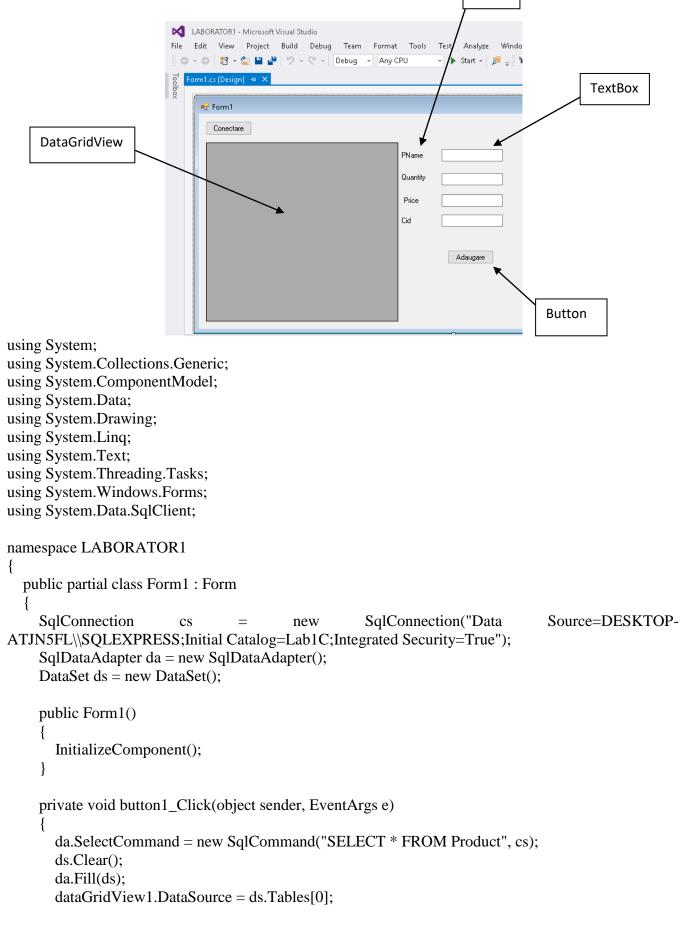
The values that have to be introduced can be taken from TextBox-es.

Example:



 $SELECT\ \ \text{-}\ use\ the\ method\ Fill()$ 

INSERT, UPDATE, DELETE – use the method ExecuteNonQuery()



Label

```
}
    private void button2_Click(object sender, EventArgs e)
       try
         da.InsertCommand = new SqlCommand("INSERT INTO Product (PName, Quantity, Price,
Cid) VALUES(@p,@q, @pr, @c)", cs);
         da. Insert Command. Parameters. Add ("@p", SqlDbType. VarChar). Value = textBox 1. Text; \\
         da.InsertCommand.Parameters.Add("@q",
                                                                  SqlDbType.Int).Value
                                                                                                       =
Int32.Parse(textBox2.Text);
         da.InsertCommand.Parameters.Add("@pr",
                                                                   SqlDbType.Int).Value
Int32.Parse(textBox3.Text);
         da.InsertCommand.Parameters.Add("c", SqlDbType.Int).Value = Int32.Parse(textBox4.Text);
         cs.Open();
         da.InsertCommand.ExecuteNonQuery();
         MessageBox.Show("Inserted Successfull to the Database");
         cs.Close();
         // already inserted - apear in the list
         da.Fill(ds);
         dataGridView1.DataSource = ds.Tables[0];
       catch (Exception ex)
         MessageBox.Show(ex.Message);
         cs.Close();
       }
    }
                    Form1
                                                                            Х
                           Conectare
                                                           PName
                          Pid
                                      PName
                                                  Quantity ^
                                                           Quantity
                                      cheese
                         3
                                                  4
                                      orange
                                                           Price
                                                  5
                                                           Cid
                                                  12
                                      grapes red
                         6
                                     chocolate
                                                  5
                                                  2
                                     ice cream
                                                                  Adaugare
                         8
                                                  5
                                     flower
                         9
                                                  1
                                     orange
```

