

```

// UTILIZARE TRANZACTII (Clasa OleDbTransaction)
. . .
    OleDbConnection con;
    OleDbCommand cm1, cm2;
    string str;

private void button2_Click(object sender, EventArgs e)
{
    OleDbTransaction tran;

    if (con.State != ConnectionState.Open)
    {
        con.Open();
    }

    tran = con.BeginTransaction();

    try
    {
        OleDbParameter id = new OleDbParameter();
        OleDbParameter nume = new OleDbParameter();
        OleDbParameter salar = new OleDbParameter();

        OleDbParameter prima = new OleDbParameter();
        OleDbParameter id_2 = new OleDbParameter();

        string adaugare1 = "INSERT INTO tabel1 values(?,?,?)";
        string adaugare2 = "INSERT INTO tabel2 values(?,?,?)";

        cm1 = new OleDbCommand(adaugare1, con, tran);
        cm2 = new OleDbCommand(adaugare2, con, tran);

        cm1.Parameters.Add(id);
        cm1.Parameters.Add(nume);
        cm1.Parameters.Add(salar);
        cm2.Parameters.Add(id_2);
        cm2.Parameters.Add(prima);
        id_2.Value = textBox1.Text;
        id.Value = textBox1.Text;
        nume.Value = textBox2.Text;
    }
}

```

```
salar.Value = textBox3.Text;
prima.Value = textBox4.Text;
cm1.ExecuteNonQuery();
cm2.ExecuteNonQuery();

    tran.Commit();
    //con.Close();
    MessageBox.Show("Aduगत");
}
catch (OleDbException ex)
{
    tran.Rollback();
    MessageBox.Show(ex.ToString());
}
finally
{
    if (con.State != ConnectionState.Closed)
    {
        con.Close();
    }
}
}
```

Tranzactii folosind ODP (sau .Net Framework Oracle Client)

```
using Oracle.ManagedDataAccess.Client;  
//using System.Data.OracleClient;
```

...

```
private void button10_Click(object sender, EventArgs e)  
{
```

```
OracleConnection connection = new OracleConnection("DATA SOURCE=localhost:1521/xes;  
PASSWORD=student;PERSIST SECURITY INFO=True;USER ID = STUDENT");
```

```
OracleCommand comanda;  
OracleTransaction tranzactie;
```

```
try  
{
```

```
connection.Open();
```

```
// Startare tranzactie
```

```
// tranzactie = connection.BeginTransaction();  
tranzactie = connection.BeginTransaction(IsolationLevel.ReadCommitted);
```

```
// Asignare comanda la tranzactie
```

```
comanda.Transaction = tranzactie;
```

```
// Prima comanda (orice comanda INSERT, UPDATE, DELETE... probabil cu parametrizare)
```

```
comanda = new OracleCommand("UPDATE salariati SET... WHERE...", connection);  
comanda.ExecuteNonQuery();
```

```
// A doua comanda
```

```
comanda = new OracleCommand("UPDATE salariati SET... WHERE...", connection);  
comanda.ExecuteNonQuery();
```

```
// A treia comanda
```

```
comanda = new OracleCommand("INSERT INTO salariati ...", connection);  
comanda.ExecuteNonQuery();
```

```
...;
```

```
//Validare tranzactie ("totul sau nimic")
```

```
tranzactie.Commit();
```

```
Label1.Text="Ambele inregistrari au fost adaugate";
```

```
}
```

```
catch (Exception ex)
```

```
{
```

```
//Anulare tranzactie ("totul sau nimic")
```

```
tranzactie.Rollback();
```

```
Label1.Text=ex.ToString()+ "Nici o inregistrare nu a fost adaugata!";
```

```
}
```

```
}
```