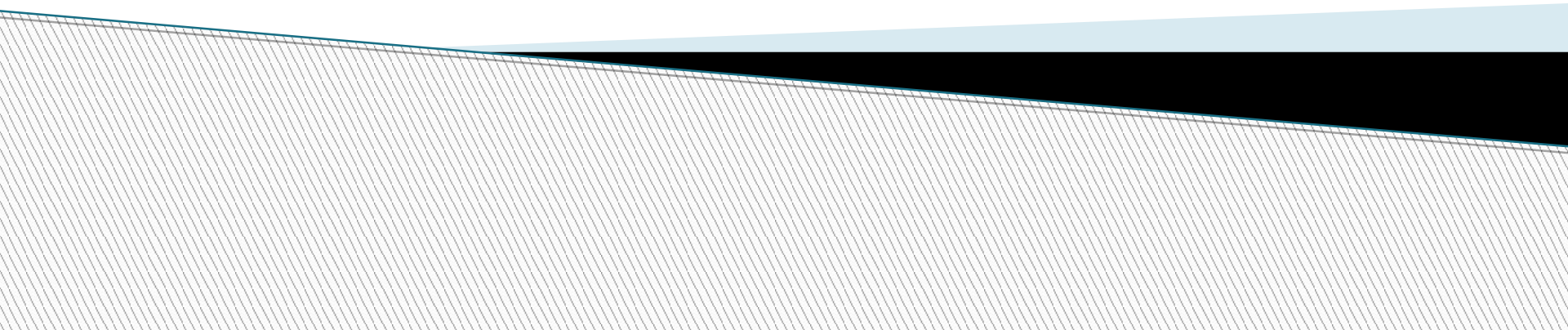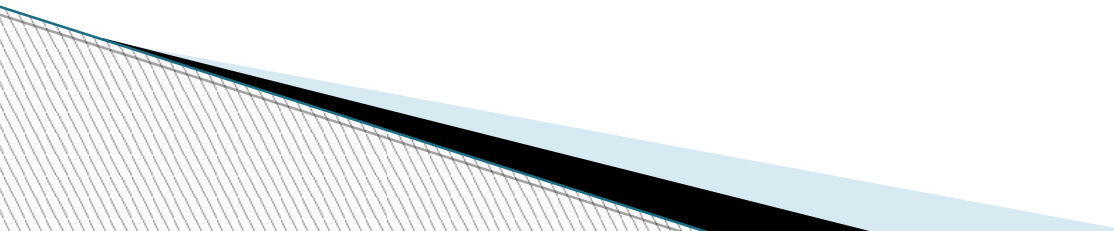# SGBD Lab 1

PHD Pop Dănuț
Informatics

Introduction

- Connection of Database
- Insert Query
- Command DataReader
- Command DataSet and DataAdapter
- Attachments

Connection

▸ http://www.connectionstrings.com/

-for all types of database connection

Ex Acces

Provider/Server name

OleDbConnection connection = new OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0 ;Data Source=Studenti.mdb;");

DataBase Name

Connection

▸ Ex SQL

SqlConnection sqlConnection1 = new SqlConnection(Data Source = ServerName/Server Address; Initial Catalog=DataBaseName; Integrated Security=SSPI ....)

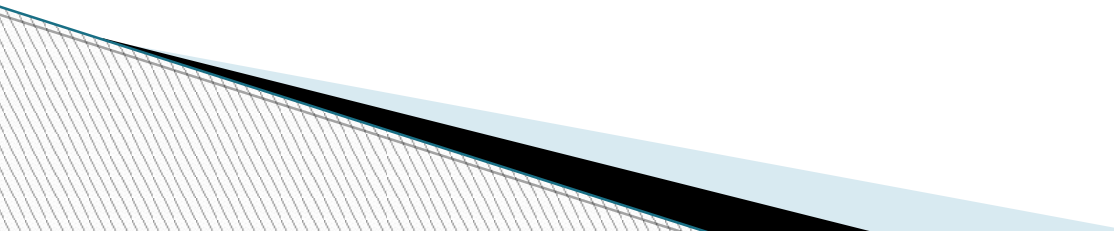For more information and types of connection www.connectionstrings.com

Query

▶ Help you for insert a sql query

Ex Acces/Sql
OleDbCommand cmd=
connction.CreateCommand();
cmd.CommandText = "Select * from Studenti";

SqlCommand cmd = new SqlCommand();
cmd.CommandText = "Select * from Studenti";

DataReader

▸ You use the Read method of the DataReader object to obtain a row from the results of the query
▸ Ex Acces

```
OleDbDataReader reader = comand.ExecuteReader();
    string s = null;
    while (reader.Read())
    {
        s+= reader[2].ToString();

    }
```
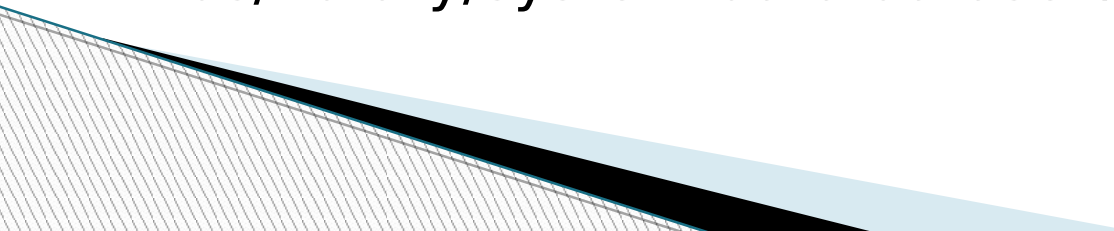
Number of table/Name of table from DB

DataReader

▶ Ex Sql

SqlDataReader reader ;

reader = cmd.ExecuteReader();

…………

DataSet and DataAdapter

- The DataSet consists of a collection of DataTable objects that you can relate to each other with DataRelation objects

- The DataAdapter represents a set of SQL commands and a database connection that are used to fill the DataSet and update the data source
- Attention for all tables you must to create a dataadapter
- Ex
- https://msdn.microsoft.com/en-us/library/system.data.dataset%28v=vs.110%29.aspx

Attachments

- Connection +DataReader

```
OleDbConnection connction = new
OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data Source=Studenti.mdb;");
    OleDbCommand comand = connction.CreateCommand();
    comand.CommandText = "Select * from Studenti";
    comand.CommandType = System.Data.CommandType.Text;
    connction.Open();
    OleDbDataReader reader = comand.ExecuteReader();
    string s = null;
    while (reader.Read())
    {
        s+= reader[2].ToString();

    }
    textBox1.Text = s;
    connction.Close();
```

Attachments

▸ Connection +DataReader

```
SqlConnection sqlConnection1 = new SqlConnection("Your Connection String");
SqlCommand cmd = new SqlCommand();
SqlDataReader reader;

cmd.CommandText = "SELECT * FROM Customers";
cmd.CommandType = CommandType.Text;
cmd.Connection = sqlConnection1;
 sqlConnection1.Open();
 reader = cmd.ExecuteReader();
// Data is accessible through the DataReader object here.

sqlConnection1.Close();
```

Attachments

‣DataSet

‣https://msdn.microsoft.com/en- us/library/system.data.dataset%28v=vs.110%29.aspx
Connection

....

```
DataSet myDataSet = new DataSet();
    string strAccessSelect = "SELECT * FROM studenti";
    OleDbCommand myAccessCommand = new OleDbCommand(strAccessSelect,
connection);
    OleDbDataAdapter myDataAdapter = new OleDbDataAdapter(myAccessCommand);

    string strAccessSelect2 = "Select * from sectii";
    OleDbCommand myAccessCommand2 = new OleDbCommand(strAccessSelect2,
connection);
    OleDbDataAdapter myDataAdapter2 = new OleDbDataAdapter(myAccessCommand2);
     connection.Open();
    myDataAdapter.Fill(myDataSet, "studenti");
    dataGridView1.DataSource = myDataSet.Tables[0];
    myDataAdapter2.Fill(myDataSet);
   dataGridView2.DataSource = myDataSet.Tables[1];
    connection.Close();
```