```
/**************************ADO. NET-ModeConnecter**************************\

----------------------------------------------Déclaration----------------------------------------------

SqlConnection cn = new SqlConnection(@"Data Source=SOUKAINA\SQLEXPRESS;Initial Catalog=Gest_Employee;Integrated
Security=True");
SqlCommand cmd;
SqlDataReader dr;
DataTable dt=new DataTable();
int pos = 0;
----------------------------------------------Affichage (Form_Load) ----------------------------------------------
cn.Open();
cmd = new SqlCommand("select e.NumEmp,e.NomEmp,e.tel,e.CinEmp, s.NomService from Employee e inner join service s on
e.IdService=s.IdService", cn);
dr=cmd.ExecuteReader();
dt.Clear();
dt.Load(dr);
comboBox1.Text = dt.Rows[0][0].ToString();
textBox1.Text = dt.Rows[0][1].ToString();
textBox2.Text = dt.Rows[0][2].ToString();
textBox3.Text = dt.Rows[0][3].ToString();
comboBox2.Text = dt.Rows[0][4].ToString();
cn.Close();
----------------------------------------------Vérifier Existence + Ajouter----------------------------------------------

cn.Open();
cmd = new SqlCommand("select count(*) from Employee where CinEmp="+textBox3.Text, cn);
int n =(int) cmd.ExecuteScalar();
if (n != 0)
{
    MessageBox.Show("Employee Existe deja");
}
else
```

```csharp
{
    SqlCommand cm = new SqlCommand("insert into Employee values('"+textBox1.Text+ "','"+textBox2.Text+ "','" + textBox3.Text + "," +
comboBox2.Text + ")", cn);
    cm.ExecuteNonQuery();
    MessageBox.Show("Employee bien ajouter)");
}
cn.Close();
```
--- Button Modifier---

```csharp
cn.Open();
cmd=new SqlCommand("Update Employee set
NomEmp='"+textBox1.Text+"',Tel'"+textBox2.Text+"',CinEmp'"+textBox3.Text+"',IdService"+comboBox2.Text+" where
NumEmp="+comboBox1.Text+"",cn);
cmd.ExecuteNonQuery();
MessageBox.Show("Bien Modifier");
cn.Close();
```
--- Button Supprimer---

```csharp
cn.Open();
cmd = new SqlCommand("delete from Employee where NumEmp=" + comboBox1.Text , cn);
cmd.ExecuteNonQuery();
MessageBox.Show("Bien Supprimer");
cn.Close() ;
```
--- Button Rechercher---

```csharp
int x;
if (int.TryParse(textBox4.Text, out x))
{
    cn.Open();
    SqlCommand cmd = new SqlCommand ("select * from Client where CodeClient=" + textBox4.Text + " or CodePostale=" + textBox4.Text +
"",cn);
    SqlDataReader dr = cmd.ExecuteReader();
    while (dr.Read())
```

```
      {
          listBox1.Items.Add(dr[0].ToString() + "/" + dr[1].ToString() + "/" + dr[2].ToString() + "/" + dr[3].ToString());
      }
dr.Close();
cn.Close();
}
else
{
    cn.Open();
    SqlCommand cmd = new SqlCommand ("select * from Client where NomClient= '" + textBox4.Text + "' or Ville='" + textBox4.Text + "'",cn);
    SqlDataReader dr = cmd.ExecuteReader();
     while (dr.Read())
     {
       listBox1.Items.Add(dr[0].ToString() + "/" + dr[1].ToString() + "/" + dr[2].ToString() + "/" + dr[3].ToString());
     }
     dr.Close();
     cn.Close();
     }
                              ---------------------------------------------Buttons De Navigation---------------------------------------------

                                  ---------------------------------------------Button |<<---------------------------------------------

cn.Open();
cmd = new SqlCommand("select * from Employee", cn);
dr = cmd.ExecuteReader();
dt.Clear();
dt.Load(dr);
button5.Enabled = false;
button6.Enabled = false;
button7.Enabled = true;
button8.Enabled = true;
pos = 0;
comboBox1.Text = dt.Rows[pos][0].ToString();
```

```csharp
textBox1.Text = dt.Rows[pos][1].ToString();
textBox2.Text = dt.Rows[pos][2].ToString();
textBox3.Text = dt.Rows[pos][3].ToString();
comboBox2.Text = dt.Rows[pos][4].ToString();
dr.Close();
cn.Close();
```

---Button <<--

```csharp
cn.Open();
cmd = new SqlCommand("select * from Employee", cn);
dr = cmd.ExecuteReader();
dt.Clear();
dt.Load(dr);
if (pos == 0)
{
    button5.Enabled = false;
    button6.Enabled = false;
    button7.Enabled = true;
    button8.Enabled = true;
}
else
{
    pos--;
    comboBox1.Text = dt.Rows[pos][0].ToString();
    textBox1.Text = dt.Rows[pos][1].ToString();
    textBox2.Text = dt.Rows[pos][2].ToString();
    textBox3.Text = dt.Rows[pos][3].ToString();
    comboBox2.Text = dt.Rows[pos][4].ToString();
}
dr.Close();
cn.Close();
```

---button >>--

```csharp
cn.Open();
cmd = new SqlCommand("select * from Employee", cn);
dr = cmd.ExecuteReader();
dt.Clear();
dt.Load(dr);
if (pos == dt.Rows.Count - 1)
{
    button5.Enabled = true;
    button6.Enabled = true;
    button7.Enabled = false;
    button8.Enabled = false;
}else
{
    pos++;
    comboBox1.Text = dt.Rows[pos][0].ToString();
    textBox1.Text = dt.Rows[pos][1].ToString();
    textBox2.Text = dt.Rows[pos][2].ToString();
    textBox3.Text = dt.Rows[pos][3].ToString();
    comboBox2.Text = dt.Rows[pos][4].ToString();
}
dr.Close();
cn.Close();
```

---button >>|---

```csharp
cn.Open();
cmd = new SqlCommand("select * from Employee", cn);
dr = cmd.ExecuteReader();
dt.Clear();
dt.Load(dr);
button5.Enabled = true;
button6.Enabled = true;
button7.Enabled = false;
button8.Enabled = false;
```

```
pos = dt.Rows.Count - 1;
comboBox1.Text = dt.Rows[pos][0].ToString();
textBox1.Text = dt.Rows[pos][1].ToString();
textBox2.Text = dt.Rows[pos][2].ToString();
textBox3.Text = dt.Rows[pos][3].ToString();
comboBox2.Text = dt.Rows[pos][4].ToString();
dr.Close();
cn.Close();
```
---Remplir Combo Box---
```
cn.Open();
    cmd = new SqlCommand("select NumEmp from Employee", cn);
    dr=cmd.ExecuteReader();
    while (dr.Read())
     {
       comboBox1.Items.Add(dr[0].ToString());
     }
cn.Close();
```
---comboBox_SelectedIndexChanged---
```
cn.Open();
SqlCommand cmd = new SqlCommand ();
cmd.CommandText = "select * from Client where CodeClient=" + comboBox1.Text;
cmd.Connection = cn;
SqlDataReader d;
d = cmd.ExecuteReader();
while (d.Read())
{
   textBox1.Text = d[1].ToString();
   textBox2.Text = d[2].ToString();
   textBox3.Text = d[3].ToString();
}
cn.Close();
```
---Remplir DataGridView---

```
cn.Open();
cmd = new SqlCommand("select * from Employees", cn);
dr = cmd.ExecuteReader();
dt.Clear();
dt.Load(dr);
dataGridView1.DataSource = dt;
dr.Close();
cn.Close();
```

---Les Menu---

```
IsMdiContainer = true;
Form1 f = new Form1();
f.MdiParent = this;
f.Show();
```

/***************************ADO. NET-Mode Déconnecter***************************\

---Déclaration---

```
public SqlConnection co = new SqlConnection(@"Data Source=localhost;Initial Catalog=Gest_Client;Integrated Security=True");
public SqlDataAdapter da;
public DataSet ds = new DataSet();
public DataTable dt = new DataTable();
int p;
```

---Form_Load---

```
da = new SqlDataAdapter("select * from client", co);
da.Fill(ds, "client");
foreach (DataRow  d in ds.Tables["client"].Rows)
{
   comboBox1.Items.Add(d[0]);
}
dataGridView1.DataSource = ds.Tables["client"];
```

--- Button Ajouter+ Existance---

```csharp
int x = (int)ds.Tables["adherents"].Compute("count(CodAdh)", "");
if (x == 0)
{
    MessageBox.Show("Adherent existe dejà");
}
else
{
    DataRow dr = ds.Tables["adherents"].NewRow();
    dr[0] = comboBox1.Text;
    dr[1] = textBox1.Text;
    dr[2] = textBox2.Text;
    dr[3] = textBox3.Text;
    dr[4] = textBox4.Text;
    dr[5] = dateTimePicker1.Value;
    ds.Tables["adherents"].Rows.Add(dr);
    MessageBox.Show("bien Ajouter");
}
```

--- Button Modifier---

```csharp
for (int i = 0; i < ds.Tables["adherents"].Rows.Count; i++)
        {
    if (comboBox1.Text==ds.Tables["adherents"].Rows[i][0].ToString())
    {
        ds.Tables["adherents"].Rows[i][1] = textBox1.Text;
        ds.Tables["adherents"].Rows[i][2] = textBox2.Text;
        ds.Tables["adherents"].Rows[i][3] = textBox3.Text;
        ds.Tables["adherents"].Rows[i][4] = textBox4.Text;
        ds.Tables["adherents"].Rows[i][5] = dateTimePicker1.Value;
    }
}
```

--- Button Supprimer---

```csharp
for (int i = 0; i < ds.Tables["adherents"].Rows.Count; i++)
```

```csharp
{
    if (comboBox1.Text == ds.Tables["adherents"].Rows[i][0].ToString())
    {
        ds.Tables["adherents"].Rows[i].Delete();
    }
}
```

-- Button Rechercher--

```csharp
DataView dv = new DataView();
// dv = null;
dv.Table = ds.Tables["client"];
dv.RowFilter = "NomClient like '%" + textBox4.Text + "%' or ville='%" + textBox4.Text + "%'";
//dv_client.Sort = "numClient Asc";
//MessageBox.Show(dv.Count.ToString());
dataGridView1.DataSource = dv;
```

-- Button Enregistrer--

```csharp
SqlDataAdapter da = new SqlDataAdapter("select * from client", co);
SqlCommandBuilder cb = new SqlCommandBuilder(da);
da.Update(ds, "client");
MessageBox.Show("ajouté à la base de données");
```

---Charger comboBox --

```csharp
da = new SqlDataAdapter("select * from client", Program.cn);
da.Fill(ds, "client");
foreach (DataRow dr in ds.Tables["client"].Rows)
{
    comboBox1.Items.Add(dr[0]);
}
```

---comboBox_SelectedIndexChanged--

```csharp
da = new SqlDataAdapter("select * from client where CodeClient="+comboBox1.Text+"", co);
foreach (DataRow d in ds.Tables["client"].Rows)
{
```

```csharp
    if (int.Parse(comboBox1.Text) == (int)d[0])
    {
      textBox1.Text = d[1].ToString();
      textBox2.Text = d[2].ToString();
      textBox3.Text = d[3].ToString();
    }}
```

--Manipuler DataGridView--

```csharp
private void Form1_Load(object sender, EventArgs e)
{
sda.Fill(ds, "Client");
sda1.Fill(ds,"Voyage");
sda2.Fill(ds,"INSCRIPTION");
DataGridViewTextBoxColumn txt = new DataGridViewTextBoxColumn();
txt.HeaderText = "Numero Client";
txt.DataPropertyName = "noclientint";
dataGridView1.Columns.Add(txt);
DataGridViewTextBoxColumn txt1 = new DataGridViewTextBoxColumn();
txt1.HeaderText = "Nom Client";
txt1.DataPropertyName = "nom";
dataGridView1.Columns.Add(txt1);
DataGridViewTextBoxColumn txt2 = new DataGridViewTextBoxColumn();
txt2.HeaderText = "Tel Client";
txt2.DataPropertyName = "téléphone";
dataGridView1.Columns.Add(txt2);
DataGridViewTextBoxColumn txt3 = new DataGridViewTextBoxColumn();
txt3.HeaderText = "Adresse Client";
txt3.DataPropertyName = "adresse";
dataGridView1.Columns.Add(txt3);
DataGridViewTextBoxColumn txt4 = new DataGridViewTextBoxColumn();
txt4.HeaderText = "Code Postal Client";
txt4.DataPropertyName = "codepostal";
dataGridView1.Columns.Add(txt4);
```

```csharp
dataGridView1.DataSource=ds.Tables["Client"];
dataGridView3.AutoGenerateColumns = true;
DataGridViewComboBoxColumn c1 = new DataGridViewComboBoxColumn();
c1.DataSource=ds.Tables["Client"];
c1.DataPropertyName = "noclientint";
c1.DisplayMember = "noclient";
c1.Name = "Numéro Client";
dataGridView3.Columns.Add(c1);
DataGridViewComboBoxColumn c2 = new DataGridViewComboBoxColumn();
c2.DataSource = ds.Tables["Voyage"];
c2.DataPropertyName = "novoyageint";
c2.DisplayMember = "novoyageint";
c2.Name = "Numéro voyage";
dataGridView3.Columns.Add(c2);
DataGridViewTextBoxColumn texte = new DataGridViewTextBoxColumn();
texte.Name = "Date";
texte.DataPropertyName = "date";
dataGridView3.Columns.Add(texte);
dataGridView3.DataSource = ds.Tables["INSCRIPTION"];
}
```

_____Supprimer_____

```csharp
private void button1_Click(object sender, EventArgs e)
{
    ds.Tables["Client"].Rows[dataGridView1.CurrentRow.Index].Delete();
    sda.Update(ds, "Client");
    MessageBox.Show("Suppression reussite ");
}
```

_____Enregistrer_____

```csharp
private void Form1_FormClosing(object sender, FormClosingEventArgs e)
{
```

```csharp
    if (MessageBox.Show("Voulez vous enregistrer", "Confirmation", MessageBoxButtons.YesNo, MessageBoxIcon.Question) ==
DialogResult.Yes)
    {
        SqlCommandBuilder cmd = new SqlCommandBuilder(da);
        da.Update(ds, "client");
    }
}
```

_____Erreur_____

```csharp
private void dataGridView1_DataError(object sender, DataGridViewDataErrorEventArgs e)
{
    if (e.ColumnIndex == 0)
    MessageBox.Show("Code client incorrect");
}
```

--Buttons déplacer >--

```csharp
if (dataGridView1.SelectedRows.Count != -1)
{
    //DataTable dt = new DataTable();
    //dt = ds.Tables[0].Clone();
    //dt.Clear();
    //dataGridView2.DataSource = dt;
    DataRow dr = ds.Tables[0].Rows[dataGridView1.CurrentRow.Index];
    dataGridView2.Rows.Add(dr[0], dr[1], dr[2], dr[3]);
    ds.Tables[0].Rows[dataGridView1.CurrentRow.Index].Delete();
}
```

--Buttons retour <--

```csharp
if (dataGridView2.SelectedRows.Count != -1)
        {
    //DataTable dt = new DataTable();
    //dt = ds.Tables[0].Clone();
    //dt.Clear();
```

```csharp
            //dataGridView1.DataSource = dt;
            DataGridViewRow dr = dataGridView2.Rows[dataGridView2.CurrentRow.Index];
                    ds.Tables[0].Rows.Add(dr.Cells[0], dr.Cells[1], dr.Cells[2], dr.Cells[3]);
            ds.Tables[0].Rows[dataGridView2.CurrentRow.Index].Delete();
}


                    ----------------------------------------Buttons De Navigation-------------------------------------------

                            ----------------------------------------Button |<<----------------------------------------------

pos = 0;
comboBox1.Text = ds.Tables["adherents"].Rows[pos][0].ToString();
textBox1.Text = ds.Tables["adherents"].Rows[pos][1].ToString();
textBox2.Text = ds.Tables["adherents"].Rows[pos][2].ToString();
textBox3.Text = ds.Tables["adherents"].Rows[pos][3].ToString();
textBox4.Text = ds.Tables["adherents"].Rows[pos][4].ToString();
dateTimePicker1.Value = (DateTime)ds.Tables["adherents"].Rows[pos][5];
                            ----------------------------------------Botton <<----------------------------------------------

if (pos == 0)
{
    MessageBox.Show("Erreur");
}
else
{
    pos--;
    comboBox1.Text = ds.Tables["adherents"].Rows[pos][0].ToString();
    textBox1.Text = ds.Tables["adherents"].Rows[pos][1].ToString();
    textBox2.Text = ds.Tables["adherents"].Rows[pos][2].ToString();
    textBox3.Text = ds.Tables["adherents"].Rows[pos][3].ToString();
    textBox4.Text = ds.Tables["adherents"].Rows[pos][4].ToString();
    dateTimePicker1.Value = (DateTime)ds.Tables["adherents"].Rows[pos][5];
}
```

```
------------------------------------------Botton >>------------------------------------------
if (pos == ds.Tables["adherents"].Rows.Count-1)
{
   MessageBox.Show("Erreur");
}
else
{
   pos++;
   comboBox1.Text = ds.Tables["adherents"].Rows[pos][0].ToString();
   textBox1.Text = ds.Tables["adherents"].Rows[pos][1].ToString();
   textBox2.Text = ds.Tables["adherents"].Rows[pos][2].ToString();
   textBox3.Text = ds.Tables["adherents"].Rows[pos][3].ToString();
   textBox4.Text = ds.Tables["adherents"].Rows[pos][4].ToString();
   dateTimePicker1.Value = (DateTime)ds.Tables["adherents"].Rows[pos][5];
}
------------------------------------------Botton >>|------------------------------------------

pos = ds.Tables["adherents"].Rows.Count - 1;
comboBox1.Text = ds.Tables["adherents"].Rows[pos][0].ToString();
textBox1.Text = ds.Tables["adherents"].Rows[pos][1].ToString();
textBox2.Text = ds.Tables["adherents"].Rows[pos][2].ToString();
textBox3.Text = ds.Tables["adherents"].Rows[pos][3].ToString();
textBox4.Text = ds.Tables["adherents"].Rows[pos][4].ToString();
dateTimePicker1.Value = (DateTime)ds.Tables["adherents"].Rows[pos][5];

------------------------------------------ Form1_FormClosing------------------------------------------

if (MessageBox.Show("Voulez vous enregistrer", "Confirmation", MessageBoxButtons.YesNo, MessageBoxIcon.Question) ==
DialogResult.Yes)
{
   SqlCommandBuilder cmd = new SqlCommandBuilder(da);
   da.Update(ds, "adherents");
```

```
}
                     ---------------------------------------- Crystal Report----------------------------------------
                     ---------------------------------------- Sans Paramétre----------------------------------------

DataSet ds2 = new DataSet();
SqlDataAdapter dad = new SqlDataAdapter("SELECT
Poste.NPoste,Poste.NomPoste,Poste.Adresse,Poste.TypePoste,Poste.NSalle,Installer.DateIns, Installer.NLog FROM Poste INNER JOIN Installer
ON Poste.NPoste = Installer.NPoste", cn);
dad.Fill(ds2, "Q4");
CrystalReport3 crp = new CrystalReport3();
crp.SetDataSource(ds2.Tables["Q4"]);
crystalReportViewer1.ReportSource = crp;
                     ---------------------------------------- Avec Paramètre----------------------------------------
DataSet1 ds = new DataSet1();
Program.cmd = new SqlCommand("SELECT LigneMedecinOperation.idMedecin, LigneMedecinOperation.idOperation,
LigneMedecinOperation.dateOperation, LigneMedecinOperation.prix, Operation.libelle FROM LigneMedecinOperation INNER JOIN Operation
ON LigneMedecinOperation.idOperation = Operation.idOperation where dateOperation between'" + textBox1.Text + "'and'" + textBox2.Text,
Program.cn);
CrystalReport1 cr = new CrystalReport1();
Program.da.Fill(ds,"Q5");
cr.SetDataSource(ds.Tables["Q5"]);
cr.SetParameterValue("Date1", textBox1.Text);
cr.SetParameterValue("Date2", textBox2.Text);
crystalReportViewer1.ReportSource = cr;
```