|  |  |  |  |
| --- | --- | --- | --- |
| **Подключение к БД** | **Для вызова данных** | **Для действий с БД** | **Авторизация** |
| public static string asd = @"Data Source = localhost; Initial Catalog = Pet\_Products; Integrated Security = true";  public static SqlConnection connection()  {  return new SqlConnection(asd);  } | public static DataTable fromDB (string str)  {  try  {  SqlDataAdapter adapter = new SqlDataAdapter(str, connection());  DataSet dataSet = new DataSet();  adapter.Fill(dataSet);  DataTable table = new DataTable();  table = dataSet.Tables[0];  return table;  }  catch (Exception ex)  {  MessageBox.Show($"Ошибка подключения: {ex}","Ошибка",MessageBoxButtons.OK,MessageBoxIcon.Error);  return null;  }  } | public static void toDB(string stroke)  {  try  {  SqlDataAdapter adapter = new SqlDataAdapter(stroke, connection());  DataSet dataSet = new DataSet();  adapter.Fill(dataSet);  }  catch (Exception ex)  {  MessageBox.Show($"Ошибка действия: {ex}", "Ошибка", MessageBoxButtons.OK, MessageBoxIcon.Error);  }  } | DataTable table = db\_Connect.fromDB("select\*from Users");  for (int i = 0; i < table.Rows.Count; i++)  {  if (box\_Login.Text == table.Rows[i][4].ToString() && box\_Password.Text == table.Rows[i][5].ToString())  {  ….  } |
| **Заполнение UserContol** | **Заполнение ComboBox из БД** | **Отображение UserControl на flowPanel** | **Сортировка** |
| DataTable table = db\_Connect.fromDB($"select\*from Products where ProductID = {a\_id}");  for (int i = 0; i < table.Rows.Count; i++)  {  lbl\_Name.Text = $"{table.Rows[i][2]}";  lbl\_Desc.Text = $"{table.Rows[i][11]}";  lbl\_Manuf.Text += $" {table.Rows[i][6]}";  lbl\_Cost.Text += $" {table.Rows[i][4]} руб.";  lbl\_Count.Text = $"{table.Rows[i][10]} шт.";  if (table.Rows[i][12].ToString() == "")  {  box\_Image.Image = Image.FromFile(@"Images\picture.png");  }  else  {  box\_Image.Image = Image.FromFile($@"Images\{table.Rows[i][12]}");  }  } | box\_Filter.Items.Add("Все производители");  DataTable table = db\_Connect.fromDB("select\*from Products");  for (int i = 0; i < table.Rows.Count; i++)  {  if (box\_Filter.Items.Contains(table.Rows[i][6].ToString()) == false)  {  box\_Filter.Items.Add(table.Rows[i][6].ToString());  }  } | pnl\_Product.Controls.Clear();  DataTable table = db\_Connect.fromDB("select\*from Products");  for (int i = 0; i < table.Rows.Count; i++)  {  uc\_Product uc = new uc\_Product();  uc\_Product.a\_id = (int)table.Rows[i][0];  pnl\_Product.Controls.Add(uc);  } | pnl\_Product.Controls.Clear();  switch (box\_Sort.SelectedIndex)  {  case 0: //без сортировки  UC\_Load();  break;  case 1: //по возрастанию  DataTable table = db\_Connect.fromDB("select\*from Products order by ProductCost asc");  for (int i = 0; i < table.Rows.Count; i++)  {  uc\_Product uc = new uc\_Product();  uc\_Product.a\_id = (int)table.Rows[i][0];  pnl\_Product.Controls.Add(uc);  result++;  }  lbl\_Result.Text = $"{result} из {table.Rows.Count}";  break;  case 2: //по убыванию  table = db\_Connect.fromDB("select\*from Products order by ProductCost desc");  for (int i = 0; i < table.Rows.Count; i++)  {  uc\_Product uc = new uc\_Product();  uc\_Product.a\_id = (int)table.Rows[i][0];  pnl\_Product.Controls.Add(uc);  result++;  }  lbl\_Result.Text = $"{result} из {table.Rows.Count}";  break;  } |
| **Фильтрация** | **Поиск** |  |  |
| if (box\_Filter.SelectedIndex != 0)  {  int result = 0;  pnl\_Product.Controls.Clear();  DataTable table = db\_Connect.fromDB($"select\*from Products where ProductManufacturer like '%{box\_Filter.SelectedItem}%'");  for (int i = 0; i < table.Rows.Count; i++)  {  uc\_Product uc = new uc\_Product();  uc\_Product.a\_id = (int)table.Rows[i][0];  pnl\_Product.Controls.Add(uc);  result++;  }  lbl\_Result.Text = $"{result} из 30";  }  if (box\_Filter.SelectedIndex == 0)  {  UC\_Load();  } | if (box\_Search.Text != "")  {  int result = 0;  pnl\_Product.Controls.Clear();  DataTable table = db\_Connect.fromDB($"select\*from Products where ProductManufacturer like '%{box\_Search.Text}%' or ProductName like '%{box\_Search.Text}%' or ProductDescription like '%{box\_Search.Text}%' or ProductCost like '%{box\_Search.Text}%' or ProductQuantityInStock like '%{box\_Search.Text}%'");  for (int i = 0; i < table.Rows.Count; i++)  {  uc\_Product uc = new uc\_Product();  uc\_Product.a\_id = (int)table.Rows[i][0];  pnl\_Product.Controls.Add(uc);  result++;  }  lbl\_Result.Text = $"{result} из 30";  }  if (box\_Search.Text == "")  {  UC\_Load();  } |  |  |