Baza danych: Siaqodb

Instalacja i konfiguracja: należy dodać pakiet NuGet "Siaqodb" do projektu.

Tworzenie obiektów rozpoczyna się od stworzenia klas, np.

```
class Address
                                                  class Client
   public int OID { get; set; }
                                                       public int OID { get; set; }
   4 references
  public string Country { get; set; }
                                                       public string Name { get; set; }
  public string City { get; set; }
                                                       public string Surname { get; set; }
  public string Street { get; set; }
                                                       public List<Address> Addresses { get; set; }
                                                       3 references
   public string BuildingNumber { get; set; }
                                                       public string PhoneNumber { get; set; }
  5 references
                                                       4 references
  public string ApartmentNumber { get; set; }
                                                       public string Email { get; set; }
   public string ZIPCode { get; set; }
```

W programie głównym należy dodać using Sqo; Utworzenie bazy:

```
var sdb = new Siaqodb("D:\\Uczelnia\\TO\\DataBase");
```

Stworzenie i umieszczenie obiektu w bazie:

Pole *OID* jest automatycznie uzupełniane przy dodawaniu obiektu do bazy.

```
Address companyAddress = new Address();
Address homeAddress = new Address();
                                       companyAddress.Country = "Poland";
homeAddress.Country = "Poland";
                                       companyAddress.City = "Kielce";
homeAddress.City = "Kielce";
                                       companyAddress.Street = "Klonowa";
homeAddress.Street = "Warszawska";
                                       companyAddress.BuildingNumber = "53";
homeAddress.BuildingNumber = "532";
                                       companyAddress.ApartmentNumber = "20";
homeAddress.ApartmentNumber = "1";
homeAddress.ZIPCode = "25-543";
                                       companyAddress.ZIPCode = "25-553";
sdb.StoreObject(homeAddress);
                                       sdb.StoreObject(companyAddress);
```

```
List<Address> clientAddresses = new List<Address>();
clientAddresses.Add(homeAddress);
clientAddresses.Add(companyAddress);

Client client = new Client();
client.Name = "Kaja";
client.Surname = "Wieczorek";
client.Addresses = clientAddresses;
client.PhoneNumber = "000-111-222";
client.Email = "adres@email.com";

sdb.StoreObject(client);
```

Zmiana i zaktualizowanie obiektu:

```
homeAddress.ApartmentNumber = "900";
sdb.StoreObject(homeAddress);
```

Usuniecie obiektu:

```
sdb.Delete(client);
```

Usunięcie wszystkich obiektów danego typu:

```
sdb.DropType<Client>();
sdb.DropType<Address>();
```

Pobranie i wyświetlenie danych:

Zapytanie:

```
var query = from Client c in sdb select c;
```