Program.cs

namespace JakubSzaredkoEFProducts

{

class Program

{

public static void Main(string[] args)

{

Console.WriteLine("Enter a new product name");

string productName = Console.ReadLine();

ProductContext productContext = new ProductContext();

Product product = new Product { ProductName = productName };

productContext.Products.Add(product);

productContext.SaveChanges();

Console.WriteLine("\nList of all products stored in the database:");

IQueryable<string> query = from prod in productContext.Products select prod.ProductName;

foreach (string pName in query)

{

Console.WriteLine(pName);

}

}

}

}

Product.cs

namespace JakubSzaredkoEFProducts

{

internal class Product

{

public int ProductID { get; set; }

public string ProductName { get; set; }

public int UnitsOnStock { get; set; }

}

}

ProductContext.cs

namespace JakubSzaredkoEFProducts

{

internal class ProductContext : DbContext

{

public DbSet<Product> Products { get; set; }

protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)

{

base.OnConfiguring(optionsBuilder);

optionsBuilder.UseSqlite("Datasource=ProductsDatabase");

}

}

}

ProductsDatabase

sqlite > .tables

Products \_\_EFMigrationsHistory

sqlite> .schema Products

CREATE TABLE IF NOT EXISTS "Products" (

"ProductID" INTEGER NOT NULL CONSTRAINT "PK\_Products" PRIMARY KEY AUTOINCREMENT,

"ProductName" TEXT NOT NULL,

"UnitsOnStock" INTEGER NOT NULL

);

sqlite > PRAGMA table\_info(Products);

0 | ProductID | INTEGER | 1 || 1

1 | ProductName | TEXT | 1 || 0

2 | UnitsOnStock | INTEGER | 1 || 0

Uruchomienie końcowego programu

Graphical user interface, text, application

Description automatically generated

Zadanie domowe

1.

a i b)

sqlite> SELECT \* FROM Suppliers;

1|Krakow Speed|Nawojki|Krakow

sqlite> SELECT \* FROM Products;

1|Strawberries|1|0

Dodałem dostawcę, po czym produkt, ponieważ wcześniej kopiowałem zawsze bazę danych, co za czym idzie dane nie były przechowywane.

class Program

{

public static void Main(string[] args)

{

ProductContext productContext = new ProductContext();

Console.WriteLine("Enter a new supplier [company name;street;city]");

string[] supplierData = Console.ReadLine().Split(';');

Supplier supplier = new Supplier {

CompanyName = supplierData[0], Street = supplierData[1], City = supplierData[2]

};

Console.WriteLine("Enter a new product name");

string productName = Console.ReadLine();

Product product = new Product { ProductName = productName };

productContext.Products.Add(product);

supplier.Products.Add(product);

productContext.Suppliers.Add(supplier);

productContext.SaveChanges();

Console.WriteLine("\nList of all products stored in the database:");

IQueryable<string> query = from prod in productContext.Products select prod.ProductName;

foreach (string pName in query)

{

Console.WriteLine(pName);

}

}

}

A screenshot of a computer

Description automatically generated with low confidence

2.

internal class Supplier

{

public int SupplierID { get; set; }

public string CompanyName { get; set; }

public string? Street { get; set; }

public string? City { get; set; }

public Product? Product { get; set; }

public Supplier()

{

}

}

internal class Product

{

public int ProductID { get; set; }

public string ProductName { get; set; }

public int UnitsOnStock { get; set; }

public ICollection<Supplier> Suppliers { get; set; }

public Product()

{

Suppliers = new List<Supplier>();

}

}

class Program

{

public static void Main(string[] args)

{

ProductContext productContext = new ProductContext();

Console.WriteLine("Enter a new supplier [company name;street;city]");

string[] supplierData = Console.ReadLine().Split(';');

Supplier supplier = new Supplier

{

CompanyName = supplierData[0],

Street = supplierData[1],

City = supplierData[2]

};

Console.WriteLine("Enter a new product name");

string productName = Console.ReadLine();

Product product = new Product { ProductName = productName };

product.Suppliers.Add(supplier);

productContext.Products.Add(product);

supplier.Product = product;

productContext.Suppliers.Add(supplier);

productContext.SaveChanges();

}

}

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Description automatically generated with medium confidence

