

Acesso a Dados (ADO,Net, Entity, Framework)

PROJETO II

PROJECT - CREATE ENTITY FRAMEWORK CODE FIRST

Objective: Create a data access layer using Code First approach.

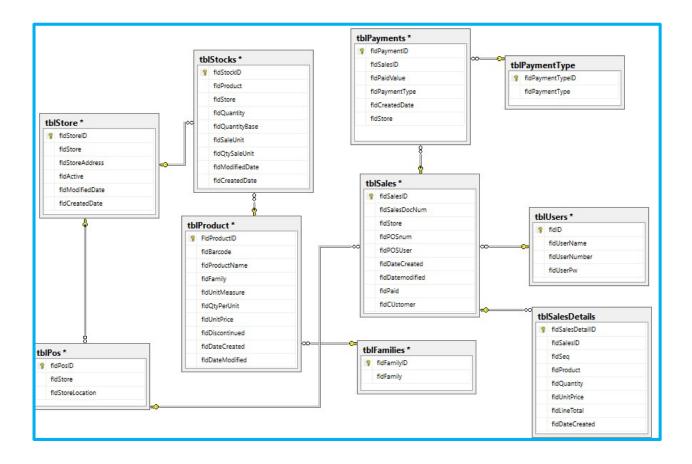
The project must be a Class Library to be reused in different types of projects.

- 1. Create a new Class Library Project and name it: POS DataLayer.
- 2. Add to the class files provided to you. These files contain almost all the entities necessary to create an Entity Framework code first model for the POS store solution;
- 3. Add to the project a class file and add an abstract class named person:
 - a. Note: Create an Entity named Person as an abstract class:
 - i. Must have the following properties:
 - ii. ID type: int
 - iii. Name type: Stringiv. Address type: String
 - v. City type: string vi. Email: String
 - b. Using the class Person, create a class Customer Entity:
 - i. CustomerID type: int and Primary Key and auto-number, Display Name: CustomerID;
 - ii. Name string max length: 60 required with error message, Display name: Customer Name
 - iii. Address type: string max length:120
 - iv. City type: string max length:50
 - v. Email type: string max length
 - vi. NIF type: string max length 9, required with error message
 - vii. Consider that a customer can have one or more Sales;
 - c. Using the class Person, modify the class user:
 - i. ID type: int and Primary Key and auto-number, display name: POSUserID;
 - ii. Name string max length: 60, required with error message, Display name: POS User Name
 - iii. Address type: string maxlength:120
 - iv. City type: string max length:50
 - v. Email type: string max length
 - vi. Phone type: string max length 9, required with error message
 - vii. Consider that a User can have one or more sales.

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- 4. Create the Database context class with the name PosContext.
- 5. Configure the App.Config with the connection string. The database should be created on your Sql Server and be named POS Store;
- 6. Enable automatic migrations;
- 7. Compile and test your component:
 - a. Create a console application and add the following store:
 - i. Store id- > H01
 - ii. Store > Hemsedal 01
 - iii. Store Address -> Fanitullen Postboks 80, 3561, Norway
 - iv. Check in your database if the record was created.
 - b. Change the tblPayments entity, and replace the field fldSalesNumDoc with fldSalesID and data type to int;
 - c. Update the migrations and test the component, and add the following data to tblPaymentType entity:
 - i. PaymentType > Cash
 - d. Change your context class and add relations: Between Payments and Sales.
 - e. Update the database.
 - f. Create a SQL Diagram and verify if you get all the relations:



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8. Use the code below to add some data to your database.

```
PosContext context = new PosContext();
var Families = new List<tblFamily>
{
         new tblFamily {fldFamilyID="SECAL", fldFamily = "SECO ALIMENTAR"},
         new tblFamily {fldFamilyID="FRESC", fldFamily="FRESCOS"},
         new tblFamily { fldFamilyID="BEBID",fldFamily="BEBIDAS" },
    };
Families.ForEach(f => context.tblFamilies.Add(f));
var paymentType = new List<tblPaymentType>
{
```