HEMS Basic Interview Test

Instruction:

- 1. Please make sure you have SQL Server and Visual Studio Installed in your PC.
- 2. You have 2 x 24 hours to finish this task.
- 3. Upload the results and database backup to your github private repository.
- 4. Add ardinurdiansyah.2734@gmail.com as contributor.
- 5. Inform your Interviewer, when it's done.

Task:

- 1. Create a database and add this table
 - a. Table Product Category

	Field_Name	Data Type
PK	Product_Category_Code	VARCHAR
PK	Seq_Id	Int
	Category_Name	VARCHAR
	Category_Description	VARCHAR
	Status	VARCHAR
	Create_Date	Datetime
	Update_Date	Datetime

b. Table Product Type

	Field_Name	Data Type	
PK	Product_Type_Code	VARCHAR	
PK	Seq_Id	Int	
FK	Product_Category_Code	VARCHAR	
	Type_Name	VARCHAR	
	Type _Description	VARCHAR	
	Status	VARCHAR	
	Create_Date	Datetime	
	Update_Date	Datetime	

c. Table Product

	Field_Name	Data Type	
PK	Product_Code	VARCHAR	
PK	Seq_Id	Int	
FK	Product_Category_Code	VARCHAR	
FK	Product_Type_Code	VARCHAR	
	Product_Name	VARCHAR	
	Product_Description	VARCHAR	
	Status	VARCHAR	
	Create_Date	Datetime	
	Update_Date	Datetime	

- 2. Create a Form to Manipulate those 3 tables, with roles:
 - a. You can't do a hard delete (Deleted Rows need to still exist in the table, but not shown in form).
 - b. You can't directly update the field, (Previous field will be inactive, and the new field will be active)

c. Updating will not change Product_Category_Code, Product_Type_Code, and Product_Code, please see the table below for example :

Code (PK)	Sequence (PK)	Field 1	Field 2
AAA	1	Product	Customer
AAA	2	Pro duct – 1	Cus to mer 1
AAA	3	Pro Dak	Kas Tu Mer

- d. Use SQL Stored Procedure for all required Query between Code and Database.
- 3. Create a HTML Dashboard View that will show all data depends on the data that already exist at Category, Type and Product. **DON'T USE TABLE,** you can use Tab, Cards or any Element Type you suitable with except table.

Optional Task

- 1. Create a View that you can add Category, Type and Product in 1 Form, read the user actions sequence bellow to give you an image of the logic:
 - 1. Click Add Category Button
 - 2.1. Fill Category Attribute
 - 2.2. Click Add Type Button
 - 2.2.1 Fill Type Attribute
 - 2.2.2 Click Add Product Button
 - 2.2.3 Fill Product Attribute
 - 2.2.4 Click Save Product
 - 2.3 Click Save Type
 - 2.4 Click Save Category
 - 2. Close Form (Data Shown on Category List, Detail will be inside the Category Form)
- 2. Create a Pdf for all the data by Category, Type and Product. (Show Preview before Download).