Please read the instructions carefully before doing the questions.

You can use materials in your computer, notebook and textbook.

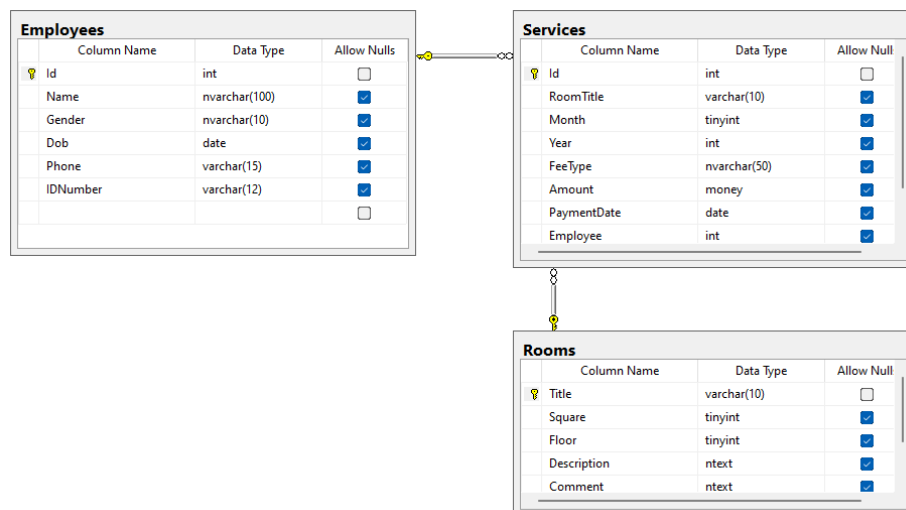You are **NOT allowed** to use any device to share data with others.

Beside the above conditions, students must follow the following requirements**:**

1. **The work must complete by using Visual Studio 2022++**
2. **The Framework must be .NET 6.0**
3. **THIS PART IS VERY IMPORTANT, PLEASE READ IT CAREFULLY AND FOLLOW THE INSTRUCTIONS.**
    - You are given a database script (.sql file) in the Zip file. Execute the script before doing questions.
    - **You must use the given solution.**
    - **You are not allowed to add any libraries via NuGet Package Manager during the exam.**
    - **Just one of above requirements is violated, your work will be considered as invalid.**

On completion, submit the **whole solution folder.**

Before submitting, you can delete the folder [bin] in each project to reduce the size of the solution, to fit the requirements of PEA_Client.

Use the following database diagram for doing this exam.

Employees

Column Name	Data Type	Allow Nulls
🔑 Id	int	☐
Name	nvarchar(100)	☑
Gender	nvarchar(10)	☑
Dob	date	☑
Phone	varchar(15)	☑
IDNumber	varchar(12)	☑
		☐

Services

Column Name	Data Type	Allow Null
🔑 Id	int	☐
RoomTitle	varchar(10)	☑
Month	tinyint	☑
Year	int	☑
FeeType	nvarchar(50)	☑
Amount	money	☑
PaymentDate	date	☑
Employee	int	☑

Rooms

Column Name	Data Type	Allow Null
🔑 Title	varchar(10)	☐
Square	tinyint	☑
Floor	tinyint	☑
Description	ntext	☑
Comment	ntext	☑

Note that: In the table Services, if one service has been paid it will have a date and employee to receive payment, stored in two attributes PaymentDate and Employee, otherwise these attributes are null.

Question 1. (5 points)

In this question, you are asked to write a WPF application that allow to manage emplyee's information in database.

Note:

- 0 will be given to the work that not using database connection string in the file **appsettings.json**

Figure 1 - Required form

- (**0.5 point**) The form is designed as shown in figure above.

  The radio button [Male] is selected by default.

- (**1 point**) List all employees that have a phone number in the database like Figure 1.

- (**1.5 point**) When a user clicks on a row in the ListView, load information of the selected Employee into panel [Employee Information] above.

- (**0.5 point**) The user can click on button [Refresh] to set all data in panel [Employee Information] to default value.

- (**1.5 points**) Allow the user to use panel [Employee Information] and buttons [Add], [Edit], [Delete] to create a new employee and update/ delete the selected employee.

  Note that: the EmployeeID cannot be updated.