Object Oriented Programming LAB – BSEF19

(Morning and Afternoon)

Lab 08 – 29-11-2020

You are very much familiar with the EMP and DEPT. These are two types, i.e., classes. For the sake of easiness consider **date** as of string type, and implement the following:

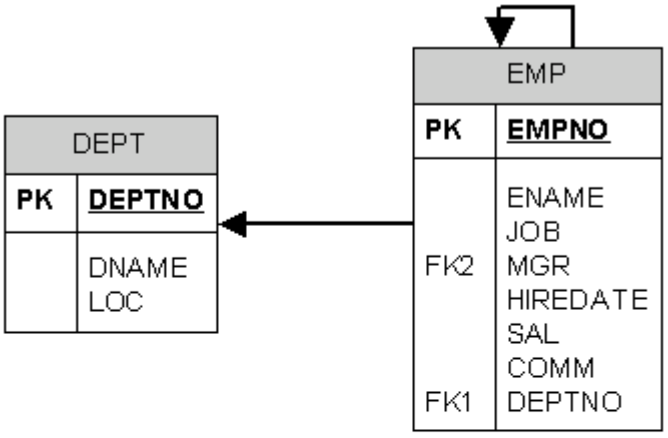
Task 1: Create simple classes **EMP** and **DEPT**. Besides data members, these classes have getters/setters, constructors and input/output functions.

Task 2: In main logic, create array of 4 objects of type **DEPT** with appropriate values. Later create an array of 14 (or lesser) objects of type EMP again with appropriate values. Display all employees and then all departments from these arrays using global functions.

- void dispEMPList(EMP emps[], int count)
- void dispDEPTList(DEPT depts[], int count)

Task 3: In a new project, copy/paste all the code from task 2 and modify the **EMP** class to demonstrate **composition** by taking **DEPT** object as its data member. You may take guidance from implementation of SHAPES case study discussed in class.

Task 4: In a new project, copy/paste all the code from task 2 and modify the **EMP** class to demonstrate **aggregation** by taking pointer to **DEPT** object as its data member. Here guidance taken from implementation of SHAPES case study will help too.



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