1. **The Department-Employee Database**

    A department-employee database should meet the following business requirements. Use the following descriptions to create a Crow's foot ERD.

    - A division is identified by its division ID. Division name is needed. A department is identified by its department ID. Department name is needed.
    - An employee is identified by the employee ID. Employees' first names and last names are recorded.
    - A project is identified by a project ID. Data about project name is needed.
    - A division operates several departments, and each department is operated by one and only one division.
    - One of the employees runs each division, and each division is run by only one employee.
    - A department has many employees, and each employee is employed by one (and not more than one) department. Some employees do not belong to any department. Each department must have one employee as the manager. An employee cannot manage more than one department.
    - An employee may work on no project or many projects. A project at least should have one employee assigned to it and normally may have several employees assigned to it.

Note:

Two relationships between Department and Employee:

- The manager for the Department (there is a manager/Employee for Department; one employee/manager manages the one department)
    - o   Thus, there is EmpID (FK) in Department table

DeptID	DeptName	EmpID

- The Department where the Employee works (One Department has many Employees and many Employees work at one Department)
    - o   Thus, there is DeptID (FK) in the Employee table

EmpID	FName	LName	DeptID

- Usually, the FK is associated with the many side
- Usually, the PK is associated to the one side

Paste Your Answer Diagram Here:

Division
PK	DivisionID
FK	EmpID
	DivisionName

Department
PK	DeptID
FK	DivisionID
	DeptName
FK	EmpID

Project
PK	ProjectID
	ProjectName

Assignment
PK,FK1	EmpID
PK,FK2	ProjectID
	AssignHour

Employee
PK	EmpID
FK	ProjectID
	EmpFName
	EmpLName
FK	DeptID

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Manage

Work