Part 01

- **Restore MyCompany Database and then:**
    1. **Try to create the following Queries:**

    1. Display all the employees Data.
    2. Display the employee First name, last name, Salary and Department number.
    3. Display all the projects names, locations and the department which is responsible for it.
    4. If you know that the company policy is to pay an annual commission for each employee with specific percent equals 10% of his/her annual salary. Display each employee full name and his annual commission in an ANNUAL COMM column (alias).
    5. Display the employees Id, name who earns more than 1000 LE monthly.
    6. Display the employees Id, name who earns more than 10000 LE annually.
    7. Display the names and salaries of the female employees
    8. Display each department id, name which is managed by a manager with id equals 968574.
    9. Display the ids, names and locations of the projects which are controlled with department 10.

Part 02

➢ Restore ITI Database and then:

1. Get all instructors Names without repetition.

2. Display instructor Name and Department Name Note: display all the instructors if they are attached to a department or not.

3. Display student full name and the name of the course he is taking for only courses which have a grade.

4. Select Student first name and the data of his supervisor.

5. Display student with the following Format.

Student ID	Student Full Name	Department name

Bouns

Display results of the following two statements and explain what is the meaning of @@AnyExpression

select @@VERSION
select @@SERVERNAME

Part 03

➢ **Using MyCompany Database and try to create the following Queries:**

1. Display the Department id, name and id and the name of its manager.

2. Display the name of the departments and the name of the projects under its control.

3. Display the full data about all the dependence associated with the name of the employee they depend on.

4. Display the Id, name, and location of the projects in Cairo or Alex city.

5. Display the Projects full data of the projects with a name starting with **"a"** letter.

6. display all the employees in department 30 whose salary from 1000 to 2000 LE monthly

7. Retrieve the names of all employees in department 10 who work more than or equal 10 hours per week on the "AL Rabwah" project.

8. Find the names of the employees who were directly supervised by Kamel Mohamed

9. Display All Data of the managers

10. Retrieve the names of all employees and the names of the projects they are working on, sorted by the project name.

11. For each project located in Cairo City, find the project number, the controlling department name, the department manager's last name, address and birthdate.

12. Display All Employees data and the data of their dependents even if they have no dependents.

Part 04

Use MyCompany DB

DQL:

1. Retrieve a list of employees and the projects they are working on ordered by department and within each department, ordered alphabetically by last name, first name.

2. Try to update all salaries of employees who work in Project 'Al Rabwah' by 30%

DML:

1. In the department table insert a new department called "DEPT IT", with id 100, employee with SSN = 112233 as a manager for this department. The start date for this manager is '1-11-2006'.

2. Do what is required if you know that: Mrs. Oha Mohamed (SSN=968574) moved to be the manager of the new department (id = 100), and they give you (your SSN =102672) her position (Dept. 20 manager)

   a. First try to update her record in the department table.

   b. Update your record to be department 20 manager.

   c. Update the data of employee number=102660 to be in your teamwork (he will be supervised by you) (your SSN =102672)

3. Unfortunately, the company ended the contract with Mr. Kamel Mohamed (SSN=223344) so try to delete him from your database in case you know that you will be temporarily in his position.

   Hint: (Check if Mr. Kamel has dependents, works as a department manager, supervises any employees or works in any projects and handles these cases).