**Lab 2**

**Data Manipulating Language:**

1. Insert your personal data to the employee table as a new employee in department number 30, SSN = 102672, Superssn = 112233.

* INSERT INTO Employee

VALUES

('Sarah','Mohamed', 102672,'09/08/2000','Brmbal Elgdedh, Minyat El-Nasr, Dakahlia ','F',73000,112233,30);

1. Insert another employee with, personal data your friend as new employee in department number 30, SSN = 102660, but don’t enter any value for salary or supervisor number to him.

* INSERT INTO Employee

(Fname, Lname, SSN, Bdate, Address, Sex, Dno)

VALUES

('Mariam','Mahmoud', 102660,'20/04/2000','El-Hamedia, Minyat El-Nasr, Dakahlia','F',30);

1. In the department table insert 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'

* INSERT INTO Departments

VALUES

('DEPT IT',100,112233,'01/11/2006');

1. Do what is required if you know that: Mrs.Noha Mohamed(SSN=968574) moved to be the manager of the new department (id = 100), and they give you (use your SSN from question1) her position (Dept. 20 manager)
   1. First try to update her record in the department table

* UPDATE Departments SET MGRSSN = 968574 WHERE Dnum = 100;
  1. Update your record to be department 20 manager.
* UPDATE Departments SET MGRSSN = 102672 WHERE Dnum = 20;
  1. Update your friend data (entered in question2) to be in your teamwork (supervised by you)
* UPDATE Employee SET Superssn = 102672 WHERE SSN = 102660;

1. Unfortunately, the company ended the contract with Mr. Kamel Mohamed (SSN=223344) so try to delete his data from your database in case you know that your friend 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 handle these cases).

* UPDATE Employee SET Superssn = 102660 WHERE Superssn = 223344;
* UPDATE Departments SET MGRSSN = 102660, [MGRStart Date] = '08/08/2023' WHERE MGRSSN = 223344;
* UPDATE Works\_for SET ESSn = 102660 where ESSn = 223344;
* DELETE FROM Dependent WHERE ESSn = 223344;
* DELETE FROM Employee WHERE SSN = 223344;

1. And your salary has been upgraded by 20 percent of its last value.

* UPDATE Employee SET Salary = Salary \* 1.2 WHERE SSN = 102672;

**Try to create the following Queries:**

1. Display all the employees Data.

Select \*

from employee;

* SELECT \* FROM Employee;

1. Display the employee First name, last name, Salary and Department number.

* SELECT Fname, Lname, Salary, Dno FROM Employee;

1. Display all the projects names, locations and the department which is responsible about it.

* SELECT Pname, Plocation, Dnum FROM Project;

1. 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).

* SELECT Fname+' '+lname AS [Full Name] , Salary \* 12 \* 0.1 AS [ANNUAL COMM] FROM Employee;

1. Display the employees Id, name who earns more than 1000 LE monthly.

* SELECT SSN, Fname + ' ' +Lname AS [Full Name] FROM Employee WHERE Salary > 1000;

1. Display the employees Id, name who earns more than 10000 LE annually.

* SELECT SSN, Fname+' '+Lname AS [Full Name] FROM Employee WHERE Salary \* 12 > 10000;

1. Display the names and salaries of the female employees

* SELECT Fname, Lname, Salary FROM Employee WHERE Sex = 'F';

1. Display each department id, name which managed by a manager with id equals 968574.

* SELECT Dnum, Dname FROM Departments WHERE MGRSSN = 968574;

1. Display the IDs, names and locations of the pojects which controlled with department 10.

* SELECT Pnumber, Pname, Plocation FROM Project WHERE Dnum = 10;