

Queries:

1. Display the employee **First name**, **last name**, **Salary** and **Department number** in **department 30** whose **salary from 1000 to 2000 LE monthly**

```
select Fname, Lname, Salary, Dno
from employee
where Dno = 30 and Salary between 1000 and 2000
```

2. Display all the **projects names**, **locations** and the **department number which is managed by it**.

```
select Pname, Plocation, Dnum
from Project
```

3. If you know that the company policy is to pay an annual commission for each employee which 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 concat(Fname, ' ', Lname) As "Full Name", Salary*12*0.1 as ANNUAL_COMM
from employee
```

4. Display the **employees Id**, **fname** who earns more than 10000 LE **annually**.

```
select SSN, Fname
from employee
where (Salary*12) > 10000
```

5. Display the **names** and **salaries** of the **female employees**

```
select concat(Fname, ' ', Lname) As "Full Name", Salary
from employee
where lower(gender) in ('f', 'female')
```

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

```
select Dname, Dnum
from departments
where MGRSSN = 968574
```

7. Display the **project id**, **name** and **location** of the projects which **controlled with department 10 or 20, and location of the projects in Cairo or Alex city**

```
select Pnumber, Pname, Plocation
from project
where (Dnum = 10 or Dnum = 20) and City in ("Alex", "Cairo")
```

8. Display the **Projects name**, **locations** of the projects with a **name starts with "a" letter.**

```
select Pname, Plocation
from project
where Pname Like "a%"
```

9. Display the **department number** and **maximum of salary** in each department
Display only departments that has employees, and has number of employees greater to or equal 2 employees

```
select Dno, max(Salary)
from employee
group by Dno
having count(SSN) >= 2;
```

Data Manipulating Language:

1. Insert new employee with **your personal data**, you will be in **department number 30**, your **SSN = 666666** , **salary = 1000** & **Superssn = 112233**.

```
insert into employee(Dno, SSN, Salary, Superssn)
values (30, 666666, 1000, 112233);
```

2. Insert another employee with **personal data your friend** as new employee in **department number 30** , **SSN = 555555**, but **don't enter any value for salary or supervisor number of him**.

```
insert into employee(Dno, SSN)
value (30, 555555);
```

3. In the **department** table insert new department called "**DEPT IT**", with **id 100**, **MgrSSN = 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, "2006-01-11")
```

4. Do what is required if you know that : **Mrs.Noha Mohamed moved to be the manager of the new department (id = 100)**, and they give her position to your friend
Steps:

- a. Your friend will be the manager of **Dept 20** (her previous department)
- b. Update **Noha Mohamed** to be the manager of **department 100**
- c. **Update your friend data, add yourself as a supervisor for him (supervised by you)**

```
update departments
set MGRSSN = 669955, MGRStart = '2025-11-13'
where Dnum = 20;

update departments
set MGRSSN = 968574, MGRStart = '2025-11-13'
where Dnum = 100;

insert into employee(Fname, Lname, SSN, gender)
values ("Ahmed", "Sharaf", 111111, "M");

update employee
set Superssn = 111111
where SSN = 669955;
```

5. Unfortunately the company ended the contract with **Mr.Kamel Mohamed** so **try to delete his data from your database**, in case you need, you can be temporary in his position.
Upgrade your salary by **20 percent** of its last value.

```
/* Ineed To Take This Poistion Manager Dnum 10 */
update departments
set MGRSSN = 111111, MGRStart = '2025-11-13'
where Dnum = 10;

/* Ineed To Take all Projects he working it */
update works_for
set ESSn = 111111
where ESSn = 223344;

/* Delete dependent */
delete from dependent
where ESSn = 223344;

/* Must Supervision of employee he is supervised*/
update employee
set Superssn = 111111
where Superssn = 223344;

/* Delete Info Aboue Mr. Kamel*/
delete from employee
where SSN = 223344;

/* Update My Salary */
update employee
set Salary = Salary + (Salary * 0.2)
where SSN = 111111;
```