Name: Mazen AbdelTawa Saad

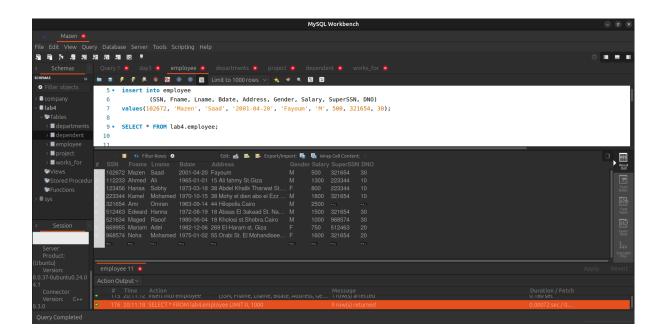
**DB - Fayoum - Lab Number 4** 

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

```
/*
Q1 =>
*/
```

insert into employee (SSN, Fname, Lname, Bdate, Address, Gender, Salary, SuperSSN, DNO)

values(102672, 'Mazen', 'Saad', '2001-04-20', 'Fayoum', 'M', 500, 30, 30);



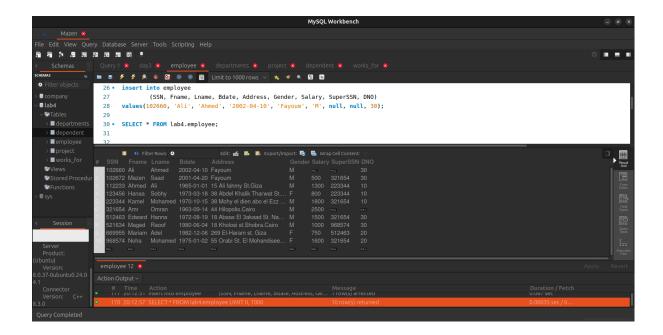
2. Insert another employee with, personal data your friend as new employee in department number 30, SSN = 102660,

but don't enter any value for salary or supervisor number to him.

```
/*
Q2 =>
*/
```

insert into employee (SSN, Fname, Lname, Bdate, Address, Gender, Salary, SuperSSN, DNO)

values(102660, 'Ali', 'Ahmed', '2002-04-10', 'Fayoum', 'M', null, null, 30);



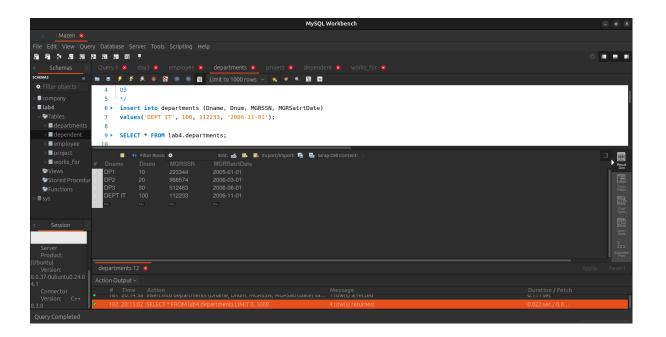
3. In the department table insert new department called "DEPT IT", with id 100, employee with SSN = 112233 as a manager for this department.

The start date for this manager is '1-11-2006'

/\* Q3 \*/

insert into department (Dname, Dnum, MGRSSN, MGRSatrtDate) values('DEPT IT', 100, 112233, '2006-11-01');

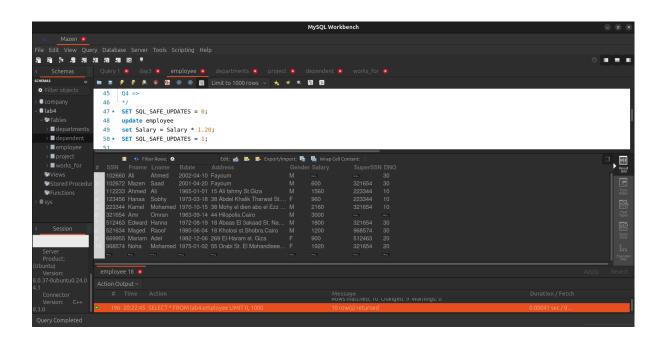
SELECT \* FROM lab4.departments;



4. Increase salary by 20% for all employees.

```
/*
Q4 =>
*/
SET SQL_SAFE_UPDATES = 0;
update employee
set Salary = Salary * 1.20;
SET SQL_SAFE_UPDATES = 1;
```

SELECT \* FROM lab4.employee;

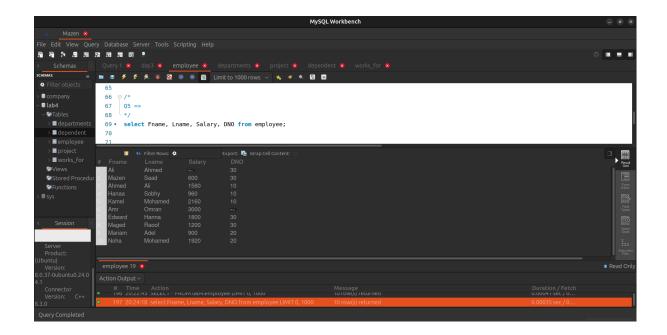


### 5. Display the employee

First name, last name, Salary and Department number.

/\* Q5 => \*/

select Fname, Lname, Salary, DNO from employee;

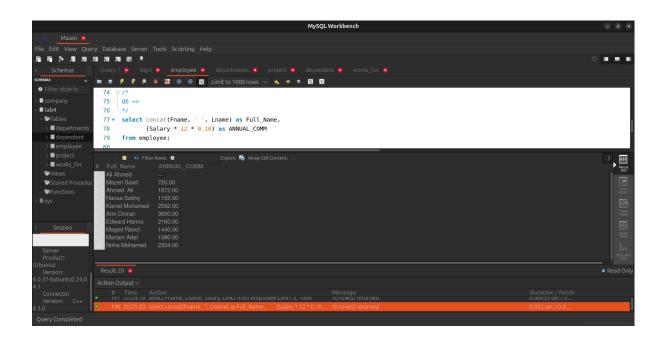


6. If you know that the company policy is to pay an annual commission for each employee with specific percent equals 10% of his/her annual salary.

Display each employee full name and his annual commission in an ANNUAL COMM column (alias).

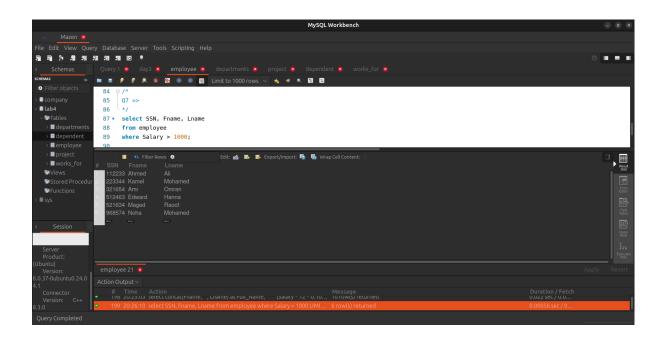
```
/*
Q6 =>
*/
```

select concat(Fname, ' ', Lname) as Full\_Name, (Salary \* 12 \* 0.10) as ANNUAL\_COMM from employee;



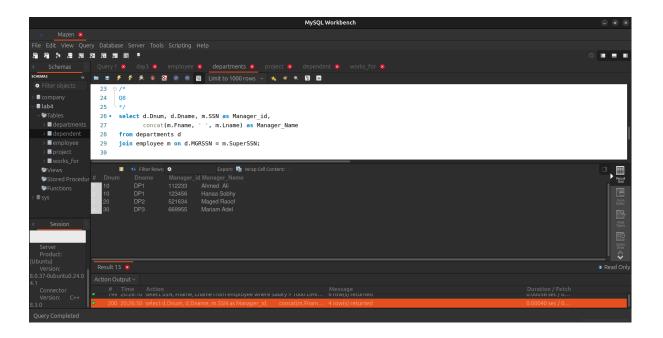
# 7. Display the employees Id, name who earns more than 1000 LE monthly.

```
/*
Q7 =>
*/
select SSN, Fname, Lname
from employee
where Salary > 1000;
```



#### 8. Display the

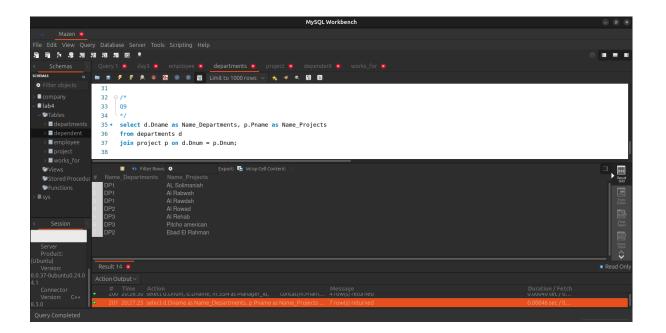
Department id, name and id and the name of its manager.



## 9. Display the name of the projects under its control.

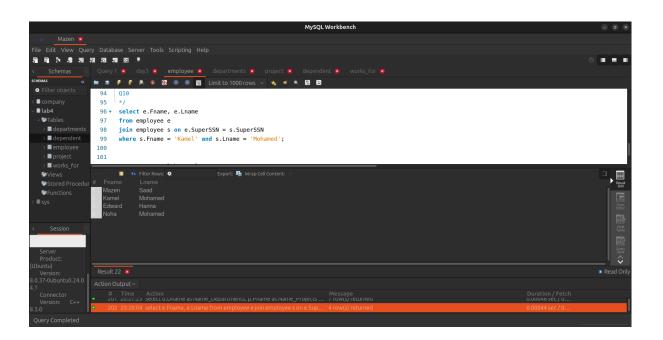
/\* Q9 \*/

select d.Dname as Name\_Departments, p.Pname as Name\_Projects from departments d join project p on d.Dnum = p.Dnum;



# 10. Find the names of the employees who directly supervised with Kamel Mohamed. -- 321654

/\*
Q10
\*/
select e.Fname, e.Lname
from employee e
join employee s on e.SuperSSN = s.SuperSSN
where s.Fname = 'Kamel' and s.Lname = 'Mohamed';



#### 11. Retrieve the

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

/\* Q11 \*/

select concat(e.Fname, '',e.Lname) as Names\_Employees, p.Pname as Names\_Projects from employee e join works\_for w on e.SSN = w.Essn join project p on w.Pno = p.Pnumber order by p.Pname;

