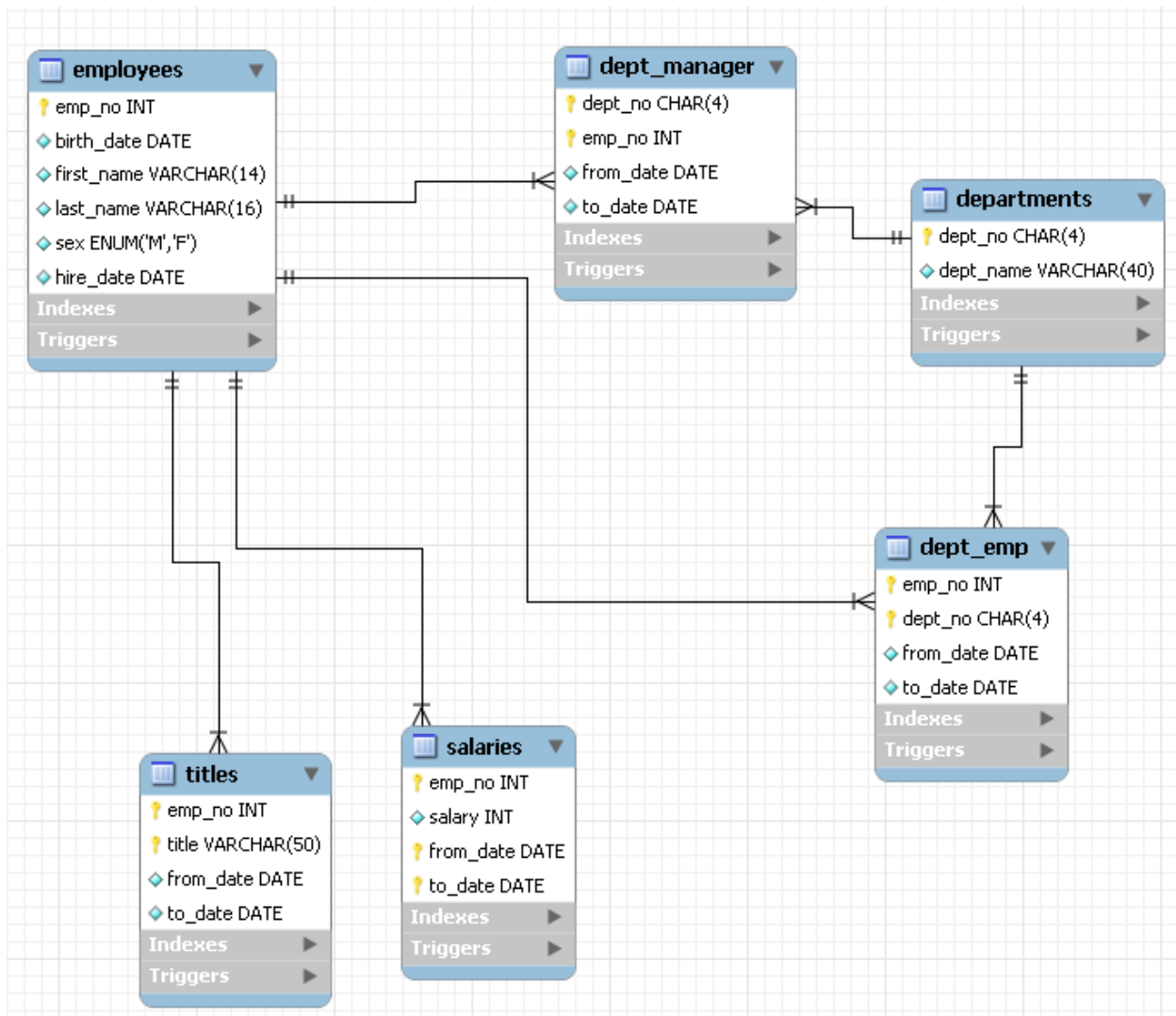SE212 Database system and design

Lab 11 Basic SQL 1

In this lab, you are going to use the 'employees' database from the following repository.

- https://github.com/datacharmer/test_db

The ERD is provided as following:

First part: install the database

1. Install the database by execute the employees.sql
2. Make sure you remove the following lines:

   SELECT 'LOADING departments' as 'INFO';
   source load_departments.dump ;
   SELECT 'LOADING employees' as 'INFO';

```
source load_employees.dump ;
SELECT 'LOADING dept_emp' as 'INFO';
source load_dept_emp.dump ;
SELECT 'LOADING dept_manager' as 'INFO';
source load_dept_manager.dump ;
SELECT 'LOADING titles' as 'INFO';
source load_titles.dump ;
SELECT 'LOADING salaries' as 'INFO';
source load_salaries1.dump ;
source load_salaries2.dump ;
source load_salaries3.dump ;

source show_elapsed.sql ;
```

Then, import the following files from command line using
mysql -u username -p database_name < file.sql

or you can directly load from workbench and execute the script.

Also, make sure the following files should be in same folder.

load_departments.dump
load_employees.dump
load_dept_emp.dump
load_dept_manager.dump
load_titles.dump
load_salaries1.dump
load_salaries2.dump
load_salaries3.dump
show_elapsed.sql

Second part: Write the SQL statement for the following query and **show the results**

1. Update employer first name 'Berni' whose id is 10014 to 'Kenny'

2. Select all Employee Last Name and First Name from table employee

3. Select all Employee Last Name and First Name from table employee order by First name

4. Count number of the employee who work in Department number d003

5. Select all employee first name who works as an Engineer order by employee id

6. Count number of the female employee

7. Select top ten employee number who has earned the highest salary

8. How many kinds of job title and count the number of each title?

9. Home many male and female in this company.

10. Create new table name supervisor with the same attributes as employees, insert 2 dummy records of instance to the table (i.e., can be your name and your friend name). One supervisor can manage more than one employee.