# SQL – Assignment 2

For the following requests, print out respectively the screenshots to show test data (the table data that you create to test each query), the query results, and pack them into the zip file Assignment2\_AccountName.zip along with your answers, then handle to the evaluator via email ([XYZ@fsoft.com.vn](mailto:XYZ@fsoft.com.vn))

Barem: Each sub-question is 10%.

In the database design for the Employee Management System of FSOFT Company, given tables of the application with below:

EMPLOYEE:

* EmpNo: employee code, primary key.
* EmpName: employee name.
* BirthDay: birth day of the employee.
* DeptNo: department code of the employee.
* MgrNo: manager code, not null.
* StartDate: starting date of work.
* Salary: salary of the employee, data type is money (VND).
* Level: level of the employee (accepts value range from 1 to 7 only).
* Status: status of the employee (0: working, 1: unpaid leave, 2: out)
* Note: some note about employee, free text.

EMP\_SKILL:

* SkillNo: skill code, foreign key.
* EmpNo: employee code, foreign key.
* SkillLevel: skill level of the employee (accepts value range from 1 to 3 only).
* RegDate: registration date.
* Description: skill description, free text.

Promary key (SkillNo, EmpNo)

SKILL:

* SkillNo: skill code, primary key, auto increment.
* SkillName: name of skill.
* Note: some note about skill, free text.

DEPARTMENT:

* DeptNo: department code, primary key, auto increment.
* DeptName: department name.
* Note: some note about department, free text.

**Question 1**:

1. Create EMPLOYEE table with the most appropriate/economic field/column constraints & types. All fields are mandatory except Note field.
2. Create SKILL table with the most appropriate/economic field/column constraints & types, all fields are mandatory except Note field.
3. Create DEPARTMENT table with the most appropriate/economic field/column constraints & types, all fields are mandatory except Note field.
4. Create EMP\_SKILL table with the most appropriate/economic field/column constraints & types, all fields are mandatory except Description field.

**Question 2**:

1. Add an Email field to EMPLOYEE table and make sure that the database will not allow the value for Email to be inserted into a new row if that value has already been used in another row.
2. Modify EMPLOYEE table to set default values to 0 of MgrNo and Status fields.

**Question 3**:

1. Add the FOREIGN KEY constrain of DeptNo field to the EMPLOYEE table that will relate the DEPARTMENT table.
2. Remove the Description field from the EMP\_SKILL table.

**Question 4**:

1. Add at least 5 records into each the created tables.
2. Create a VIEW called EMPLOYEE\_TRACKING that will appear to the user as EmpNo, Emp\_Name and Level. It has Level satisfied the criteria: Level >=3 and Level <= 5.