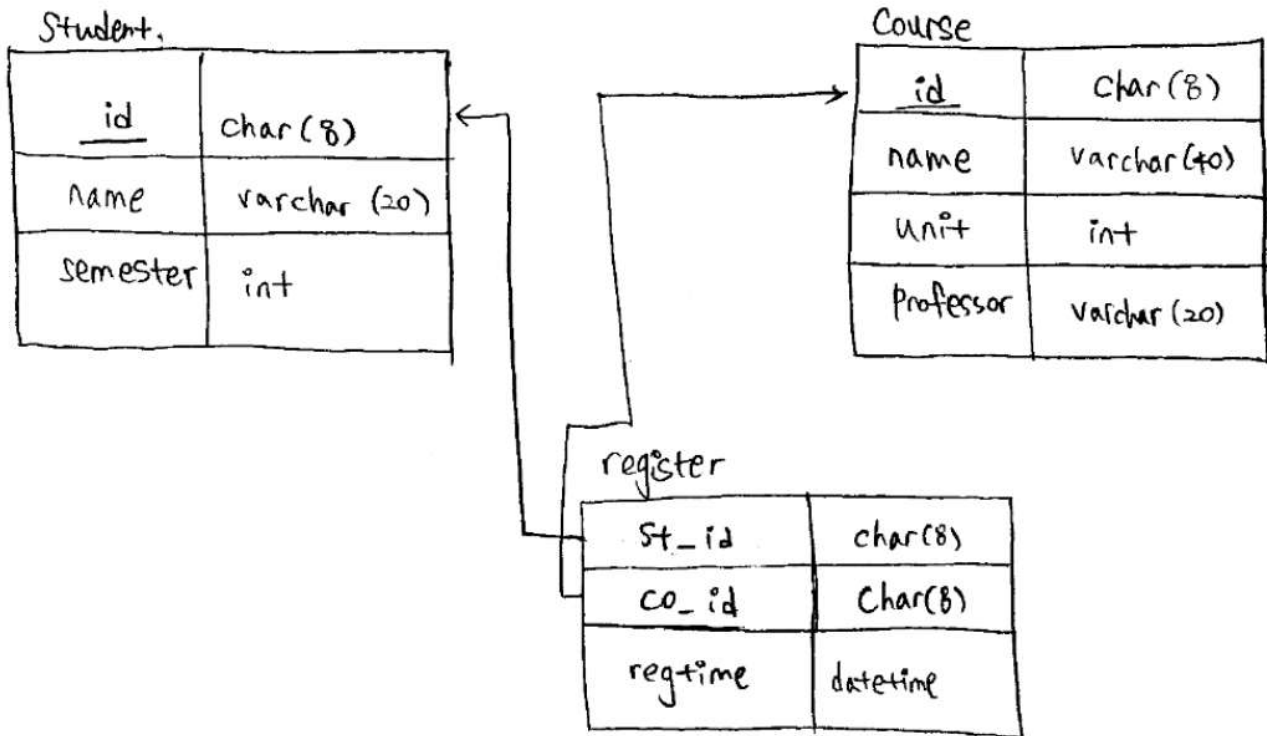Lab. Database

Lab 1. SQL 실습

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1.

2. create database dgu;

3.

create table student (id char(8), name varchar(20), semester int, primaty key(id));

create table course (id char(8), name varchar(40), unit int, professor varchar(20), primary key(id));

create table register(st_id char(8), co_id char(8), regtime datetime);

4.

insert into student values ('20190101', '가나다', 3), ('20190102', '나한가', 2), ('20190103', '나두야', 2), ('20200101', '가운데', 1), ('20200102', '김한나', 1), ('20200103', '유명한', 1);

5.

insert into course values ('S01', '데이터베이스', 3, '최교수'), ('S02', '국어', 2, '강교수'), ('S03', '영어', 2, 'James'), ('S04', '자바', 3, '최교수'), ('S05', '수학', 2, '수학교수');

6.

insert into register (select st.id, co.id, now() from student st, course co where st.name = '김한나' and co.name = '데이터베이스');

8.

insert into register (select st.id, co.id, now() from student st, course co where st.name = '김한나' and (co.name ='국어' or co.name = '영어'));

10.

insert into register values('20190101', 'S04', now()), ('20200103', 'S05', now()), ('20200103', 'S01', now()));

11.

select co.name as 교과목, co.unit as 학점, co.professor as 교수

    -> from student st, register re, course co

    -> where st.name = '김한나' and st.id = re.st_id and co.id = re.co_id

    -> order by co.name;

12.

select st.name as 이름, count(*) as 과목수, sum(co.unit) as 학점

    -> from student st, register re, course co

    -> where st.id = re.st_id and co.id = re.co_id

    -> group by st.name;

13.

delete from register where st_id = (select id from student where name = '김한나') and co_id = (select id from course where name = '국어');

14.

update student set semester = semester + 1 where id in (select st_id from register);

15.

delete from course where id in (select co_id from register group by co_id having count(*)<5);