

## 1번문제

Enter SQL commands here

```
1 SELECT MIN(I), MAX(I)
2 FROM (SELECT course_id, count(ID) as I
3       FROM takes
4       GROUP BY course_id, sec_id);
5
```

Execute

Save the db

Load an SQLite database file:

파일 선택 선택된 파일 없음

MIN(I)	MAX(I)
1	7

## 2번문제

Enter SQL commands here

```
1 SELECT *
2 FROM course
3 WHERE course_id like "CS-1%";
4
```

Execute

Save the db

Load an SQLite database file:

파일 선택 선택된 파일 없음

course_id	title	dept_name	credits
CS-101	Intro. to Computer Science	Comp. Sci.	4
CS-190	Game Design	Comp. Sci.	4

## 3번문제

Enter SQL commands here

```
1 SELECT instructor.ID, name, dept_name
2 FROM instructor, ( SELECT distinct ID
3                   FROM teaches , ( SELECT *
4                                   FROM course
5                                   WHERE course_id like "CS-1%" ) as T
6                   WHERE teaches.course_id = T.course_id ) as TT
7 WHERE TT.ID = instructor.ID;
```

Execute

Save the db

Load an SQLite database file:

파일 선택 선택된 파일 없음

ID	name	dept_name
10101	Srinivasan	Comp. Sci.
45565	Katz	Comp. Sci.
83821	Brandt	Comp. Sci.

#### 4번문제

Enter SQL commands here

```
1 INSERT INTO student(ID, name, dept_name, tot_cred)
2 SELECT instructor.ID, name, dept_name, 0
3 FROM instructor
4 WHERE instructor.ID <= 60000;
5
6 SELECT *
7 FROM student;
```

Execute

Save the db

Load an SQLite database file:

파일 선택    선택된 파일 없음

ID	name	dept_name	tot_cred
00128	Zhang	Comp. Sci.	102
12345	Shankar	Comp. Sci.	32
19991	Brandt	History	80
23121	Chavez	Finance	110
44553	Peltier	Physics	56
45678	Levy	Physics	46
54321	Williams	Comp. Sci.	54
55739	Sanchez	Music	38
70557	Snow	Physics	0
76543	Brown	Comp. Sci.	58
76653	Aoi	Elec. Eng.	60
98765	Bourikas	Elec. Eng.	98
98988	Tanaka	Biology	120
10101	Srinivasan	Comp. Sci.	0
12121	Wu	Finance	0
15151	Mozart	Music	0
22222	Einstein	Physics	0
32343	El Said	History	0
33456	Gold	Physics	0
45565	Katz	Comp. Sci.	0
58583	Califieri	History	0

## 5번문제

Enter SQL commands here

```
1 DELETE FROM student
2 WHERE student.ID in ( SELECT instructor.ID
3                        FROM instructor
4                        WHERE instructor.ID <= 60000);
5
6 SELECT *
7 FROM student;
```

Execute

Save the db

Load an SQLite database file:

파일 선택

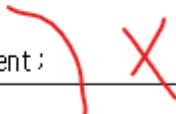
선택된 파일 없음

ID	name	dept_name	tot_cred
00128	Zhang	Comp. Sci.	102
12345	Shankar	Comp. Sci.	32
19991	Brandt	History	80
23121	Chavez	Finance	110
44553	Peltier	Physics	56
45678	Levy	Physics	46
54321	Williams	Comp. Sci.	54
55739	Sanchez	Music	38
70557	Snow	Physics	0
76543	Brown	Comp. Sci.	58
76653	Aoi	Elec. Eng.	60
98765	Bourikas	Elec. Eng.	98
98988	Tanaka	Biology	120

## 6번문제

Enter SQL commands here

```
1 update student
2 set tot_cred = (select case
3                 when sum(credits) is not null then sum(credits)
4                 else 0
5                 end
6 from takes, course
7 where takes.course_id = course.course_id and
8       student.ID = takes.ID and
9       takes.grade <> 'F' and
10      takes.grade is not null);
11
12 SELECT *
13 FROM student;
```



Execute

Save the db

Load an SQLite database file:  선택됨

ID	name	dept_name	tot_cred
00128	Zhang	Comp. Sci.	7
12345	Shankar	Comp. Sci.	14
19991	Brandt	History	3
23121	Chavez	Finance	3
44553	Peltier	Physics	4
45678	Levy	Physics	7
54321	Williams	Comp. Sci.	8
55739	Sanchez	Music	3
70557	Snow	Physics	0
76543	Brown	Comp. Sci.	7
76653	Aoi	Elec. Eng.	3
98765	Bourikas	Elec. Eng.	7
98988	Tanaka	Biology	4

## 7번문제

Enter SQL commands here

```
1 UPDATE instructor
2 SET salary = (SELECT CASE
3               WHEN course_count=0 THEN 30000
4               ELSE 50000*course_count
5               END
6 FROM (SELECT ID, count(distinct course_id) as course_count
7       FROM instructor NATURAL LEFT OUTER JOIN teaches
8       GROUP BY instructor.ID) AS T
9       WHERE instructor.ID = T.ID );
10
11 SELECT *
12 FROM instructor;
```

Execute

Save the db

Load an SQLite database file:  선택된

ID	name	dept_name	salary
10101	Srinivasan	Comp. Sci.	150000
12121	Wu	Finance	50000
15151	Mozart	Music	50000
22222	Einstein	Physics	50000
32343	El Said	History	50000
33456	Gold	Physics	30000
45565	Katz	Comp. Sci.	100000
58583	Califieri	History	30000
76543	Singh	Finance	30000
76766	Crick	Biology	100000
83821	Brandt	Comp. Sci.	100000
98345	Kim	Elec. Eng.	50000