

데이터베이스 실습

- 5주차 실습 -

제출일자	2018.10.5.
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테이블 만든 SQL문

```







1  CREATE TABLE DEPARTMENT (
2      Department_Name char(20) NOT NULL,
3      Hot_Line char(4) NOT NULL,
4      PRIMARY KEY(Department_Name)
5  );
6
7  INSERT INTO DEPARTMENT VALUES('Computer Science', '0114');
8  INSERT INTO DEPARTMENT VALUES('Mathematical', '7013');
9  INSERT INTO DEPARTMENT VALUES('Electronic', '4665');
10 INSERT INTO DEPARTMENT VALUES('Historic', '7894');
11
12 CREATE TABLE Course (
13     Course_No double NOT NULL unique,
14     Course_Name CHAR(20),
15     Master_Name CHAR(20),
16     Department_Name char(20),
17     PRIMARY KEY(Course_No),
18     FOREIGN KEY(Department_Name) REFERENCES Department(Department_Name) ON DELETE CASCADE
19 );
20 INSERT INTO Course VALUES(1111, 'Database', 'Bob', 'Computer Science');
21 INSERT INTO Course VALUES(1112, 'Database', 'Bob', 'Computer Science' );
22 INSERT INTO Course VALUES(1113, 'Database', 'Sahra', 'Computer Science' );
23 INSERT INTO Course VALUES(2111, 'Computer Programming', 'Sahra', 'Computer Science' );
24 INSERT INTO Course VALUES(2112, 'Computer Programming', 'Sahra', 'Computer Science' );
25 INSERT INTO Course VALUES(3111, 'Linear Discriminant', 'Jordan', 'Mathematical' );
26 INSERT INTO Course VALUES(3112, 'Historical', 'Jordan', 'Historic' );
27
28 CREATE TABLE Student (
29     StudentNo double NOT NULL unique,
30     Name CHAR(20),
31     Age double,
32     Department_Name char(20),
33     City char(20),
34     Salary double DEFAULT 0,
35     Course_No double,
36     PRIMARY KEY(StudentNo),
37     FOREIGN KEY(Department_Name) REFERENCES Department(Department_Name) ON DELETE CASCADE,
38     FOREIGN KEY(Course_No) REFERENCES Course(Course_No) ON DELETE CASCADE
39 );
40
41 INSERT INTO Student VALUES(201355678, 'Kobe Bryant', 26, 'Computer Science', 'New York', 50000, 1111);
42 INSERT INTO Student VALUES(201387541, 'James', 26, 'Mathematical', 'Chicago', 30000, 3111);
43 INSERT INTO Student VALUES(201351764, 'Michael Jordan', 25, 'Electronic', 'Chicago', 40000, 2112 );
44 INSERT INTO Student VALUES(201431549, 'Curry', 25, 'Computer Science', 'Miami', 60000, 1111);
45 INSERT INTO Student VALUES(201400246, 'Tompson', 24, 'Electronic', 'Golden State', 10000, 3111 );
46 INSERT INTO Student VALUES(201597516, 'Dwayne Wade', 24, 'Computer Science', 'Miami', 0, 3112);
47 INSERT INTO Student VALUES(201649751, 'Andre Drummond', 24, 'Computer Science', 'HOU', 20000, 1112 );
48 INSERT INTO Student VALUES(201761547, 'Yogi Ferrell', 23, 'Electronic', 'Chicago', 25000, 2112 );
49 INSERT INTO Student VALUES(201765212, 'Chris Paul', 22, 'Computer Science', 'HOU', 46000, 1113);
50 INSERT INTO Student VALUES(201702148, 'James', 22, 'Computer Science', 'CLA', 50000, 2111);
51 INSERT INTO Student VALUES(201721349, 'Curry', 21, 'Mathematical', 'Golden State', 47000, 3112 );
52

```

문제 1) 각 테이블을 만들고, 각 테이블의 튜플들이 하나씩 입력된 화면을 보이시오

1 • `select * from student;`


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Result Grid  Filter Rows: Edit:    Export/Import:  

	StudentNo	Name	Age	Department_Name	City	Salary	Course_No
▶	201351764	Micheal Jordan	25	Electronic	Chicago	40000	2112
	201355678	Kobe Bryant	26	Computer Science	New York	50000	1111
	201387541	James	26	Mathematical	Chicago	30000	3111
	201400246	Tompson	24	Electronic	Golden State	10000	3111
	201431549	Curry	25	Computer Science	Miami	60000	1111
	201597516	Dwayne Wade	24	Computer Science	Miami	0	3112
	201649751	Andre Drummond	24	Computer Science	HOU	20000	1112
	201702148	James	22	Computer Science	CLA	50000	2111
	201721349	Curry	21	Mathematical	Golden State	47000	3112
	201761547	Yogi Ferrell	23	Electronic	Chicago	25000	2112
	201765212	Chris Paul	22	Computer Science	HOU	46000	1113
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

1 • `select * from department;`





<

Result Grid  Filter Rows:

	Department_Name	Hot_Line
▶	Computer Science	0114
	Electronic	4665
	Historic	7894
	Mathematical	7013
*	NULL	NULL

1 • `select * from course;_`

<

Result Grid  Filter Rows: Edit:    Ex

	Course_No	Course_Name	Master_Name	Department_Name
▶	1111	Database	Bob	Computer Science
	1112	Database	Bob	Computer Science
	1113	Database	Sahra	Computer Science
	2111	Computer_Programming	Sahra	Computer Science
	2112	Computer_Programming	Sahra	Computer Science
	3111	Linear_Discriminant	Jordan	Mathematical
	3112	Historical	Jordan	Historic
*	NULL	NULL	NULL	NULL

문제 2) Department_Name이 Computer Science인 사람의 수가 몇 명인지 보이시오

```
1 • select count(*) from student where department_Name ='Computer Science';
```

count(*)
6

문제 3) Salary가 30000 이상인 학생의 학번, 이름을 보이시오

```
1 • select StudentNo, Name from student where Salary>=30000;
```

StudentNo	Name
201351764	Micheal Jordan
201355678	Kobe Bryant
201387541	James
201400246	Tompson
201431549	Curry
201649751	Andre Drummond
201702148	James
201721349	Curry
201761547	Yogi Ferrell
201765212	Chris Paul
NULL	NULL

문제 4) 'C'로 시작하는 학생의 이름을 보이시오

```
1 • select Name from student where Name like 'C%';
```

Name
Curry
Curry
Chris Paul

문제 5) Age가 23살 이상이고, City가 Chicago인 학번과 이름을 보이시오.

```
1 • select StudentNo ,Name from student where age>=23 and city='Chicago';
```

StudentNo	Name
201351764	Micheal Jordan
201387541	James
201761547	Yogi Ferrell
NULL	NULL

문제 6) Department_name이 Computer Science인 Master_Name들을 보이시오.

```
1 • select distinct Master_Name from course where Department_name='Computer Science';
```

Master_Name
Bob
Sahra

문제 7) Curry가 다니는 Department들의 HotLine들을 보이시오.

```
1 Hot_Line from department where Department_Name in (select department_name from student where name ='Curry');
```

Hot_Line
0114
7013

문제 8) Course_Name이 Database 수업을 듣는 학생들의 학번과 이름을 보이시오. 주의) Database 수업의 Course_No가 1111, 1112, 1113을 이용하는 것이 아니라 Database 수업을 조건으로 이용하여야 합니다.

```
1 • select studentNo, Name from Student where Course_No in( select Course_No from Course where Course_Name = 'Database');
```

studentNo	Name
201355678	Kobe Bryant
201431549	Curry
201649751	Andre Drummond
201765212	Chris Paul

문제 9) 25살 이상의 Salary들을 반으로 줄이시오.

[illegible]

문제 10) Master_Name이 Jordan인 학생들의 정보를 모두 지우고 결과화면을 보이시오.

[illegible]