

DB 4장 과제

컴퓨터공학과 12201700학번 김민정

4.1

: natural join을 할 때, 조건이 4개(instructor, teaches, section, course)가 들어가게 된다. 이때, 교수가 담당하는 모든 수업을 보고 싶지만 instructor과 section에서 join이 되면서 교수가 담당하는 과가 아닌 다른 분반을 볼 수 없게 만든다. 고로 이 부분에서 문제가 발생한다.

4.9

: manager이 지워지게 되면, on delete cascade라는 명령에 의해 순차적으로 manager 테이블에 있는 employee_ID까지 지워지게 된다. 즉, manager을 지우라는 순차적인 명령에 의해 employee까지 삭제되는 것이다.

4.15

select *

from section inner join classroom using(building, room_number)

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```
1 select *
2 from section inner join classroom using(building, room_number)
```

The results are displayed in a table with the following columns: BUILDING, ROOM_NUMBER, COURSE_ID, SEC_ID, SEMESTER, YEAR, TIME_SLOT_ID, and CAPACITY. The table contains 10 rows of data.

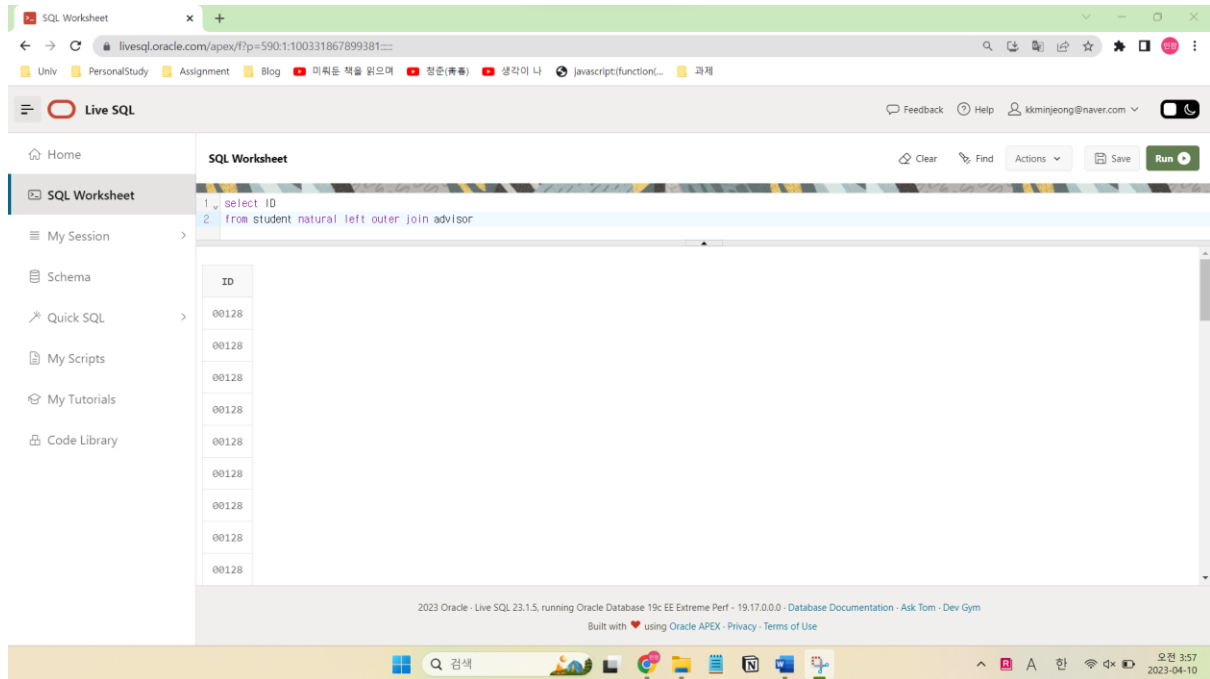
BUILDING	ROOM_NUMBER	COURSE_ID	SEC_ID	SEMESTER	YEAR	TIME_SLOT_ID	CAPACITY
Painter	514	BIO-101	1	Summer	2017	B	10
Painter	514	BIO-301	1	Summer	2018	A	10
Packard	101	CS-101	1	Fall	2017	H	500
Packard	101	CS-101	1	Spring	2018	F	500
Taylor	3128	CS-190	1	Spring	2017	E	70
Taylor	3128	CS-190	2	Spring	2017	A	70
Watson	120	CS-315	1	Spring	2018	D	50
Watson	100	CS-319	1	Spring	2018	B	30
Taylor	3128	CS-319	2	Spring	2018	C	70

At the bottom of the interface, it states: "2023 Oracle - Live SQL 23.1.5, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0 - Database Documentation - Ask Tom - Dev Gym. Built with using Oracle APEX - Privacy - Terms of Use".

4.17

select ID

from student natural left outer join advisor



4.20

create view tot_credits10 as

select year, sum(credits) as num_credits

from section natural join course natural join takes

group by year;

The screenshot shows the Oracle Live SQL web interface. The left sidebar contains navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains the following SQL code:

```

1 create view tot_credits10 as
2 select year, sum(credits) as num_credits
3 from section natural join course natural join takes
4 group by year;
5
6 select *
7 from tot_credits10;

```

Below the code, an error message is displayed: 'ORA-00955: name is already used by an existing object'. Below the error, a table shows the results of the query:

YEAR	NUM_CREDITS
2017	49
2018	29

Below the table, there is a 'Download CSV' button and the text '2 rows selected.'. At the bottom of the interface, a footer indicates: '2023 Oracle - Live SQL 23.1.5, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0 - Database Documentation - Ask Tom - Dev Gym. Built with using Oracle APEX - Privacy - Terms of Use'.

4.23

: grant가 부여될 때, user satoshi의 위치에서 부여할 수 없다. Manager의 위치에서 권한이 부여가 되어야 올바른 수행 순서이다. User의 위치에서 grant가 부여가 가능하다면 manager의 직책의 의미가 없다.