

[1] select a_1, \dots, a_n from r_1, \dots, r_m where p .

$$A = \{x \mid (x \in (r_1 \vee \dots \vee r_m), p(x))\}$$

[2] 1) True

2) Unknown

3) Unknown

4) Unknown

5) false

6) Unknown

22-01-2022

[3] Find the names of all instructors in the physics dept,
along with the course-id of all courses they have taught.

⇒ select name, course-id from Instructor where Instructor.dept_name = 'Physics'

✓ @ natural join (from Teaches where

Instructor.ID = Teaches.ID).

⇒ @ natural join Teaches where Instructor.ID = Teaches.ID.

[1] select a_1, \dots, a_n from r_1, \dots, r_n where P .

$$A = \{a_i \mid (x \in (r_1 \vee \dots \vee r_n), P(x))\}$$

[2] 1) True

2) Unknown

3) Unknown

4) Unknown

5) false

6) Unknown

23-01-2022

[3] Find the names of all instructors in the physics dept, along with the course-id of all courses they have taught.

→ select name, course-id from Instructor where Instructor.dept-name = 'Physics')

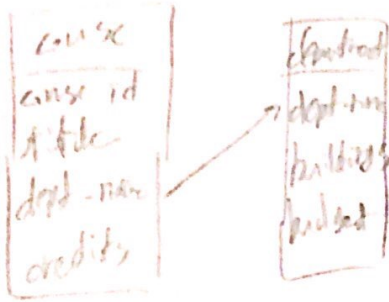
✓ : @ natural join (from Teaches where

Instructor.ID = Teaches.ID).

⊗ natural join Teaches where Instructor.ID = Teaches.ID.

14

SQL VDL



course

course-id,

title,

{dept-name} from department

credits

23-01532

5

1) ^V Instructor
In name dept-name salary

Find the average salary of instructors in each department.

2) Biology 과의 모든 교수들의 평균 급여를 구하라

~~select name, rank() over (from instructor where dept-name = 'Biology' order by salary desc)~~

select name, from instructor where salary > all (select salary, from instructor where dept-name = 'Biology')

grant select on department to Asst

schema department의 모든 query에 대한 권한

(11) all privileges. PK-Asst Asst에게 부여함. (1)

Asst의 모든 권한을 부여함.

7.7

table Student {

SID INTEGER,

PKey VARCHAR2,

SName VARCHAR2,

GPA NUMBER,

table Foreign Student {

Country VARCHAR2,

},

table Domestic Student {

State VARCHAR2

SSN VARCHAR2

},

table AP Student

table AP Course

23-01-23

Q1) select * from record where time_slot_id = <time_slot>의
조건에서 모든 데이터, 그리고 delete.

Q2) select (ID, rank() over (order by GPA desc) as s-rank

from student-grades

order by s-rank

ID	s-rank
3	1
23	2
21	3
11	4

ID	s-rank
11	4
21	3
23	2
3	1

23	2.2	2
11	2.7	4
21	2.9	3
3	3.4	1

23 - 0.522

✓
b) 1)

✓
11)

[12] 1) attribute / field ✓

23 - 이석우 2

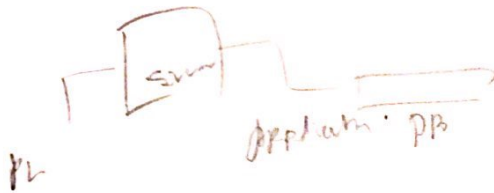
2) { phone-number }

3) (method) age()

[13] prog - grade ER diagram

[14] PL - DBMS and model 이력지 4번

• application



[15] person {
 IP
 name
 address
}

employee extends person {
 salary
}

student extends person {
 test-credits
}