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SAT3210

Assignment 2

October 10, 2021

1.

2.

3. Select \* from instructor where dept\_name = 'Biology'

	ID	name	dept_name	salary
▶	76766	Crick	Biology	72000.00
*	NULL	NULL	NULL	NULL

4. select title from Course where dept\_name='Comp. Sci.' and credits=3;

	title
▶	Robotics
	Image Processing
	Database System Concepts

5. select course\_id , title from course inner join student on

course.dept\_name=student.dept\_name where student.id= 76543;

	course_id	title
▶	CS-101	Intro. to Computer Science
	CS-190	Game Design
	CS-315	Robotics
	CS-319	Image Processing
	CS-347	Database System Concepts

6. select name, title, credits as NumberOfCredits

from course inner join student on student.dept\_name=course.dept\_name

where id='76543' group by name, title, credits;

	name	title	NumberOfCredits
►	Brown	Intro. to Computer Science	4
	Brown	Game Design	4
	Brown	Robotics	3
	Brown	Image Processing	3
	Brown	Database System Concepts	3

7. select name , title, credits , count(credits) as NumberOfCredits

from course inner join student on student.dept\_name=course.dept\_name group by name,  
title, credits;

(This table was a bit too big to display all the info in the MySQL window, so I saved it as  
a csv and screen capped that)

name	title	credits	NumberOfCredits
Tanaka	Intro. to B	4	1
Tanaka	Genetics	4	1
Tanaka	Computat	3	1
Zhang	Intro. to C	4	1
Shankar	Intro. to C	4	1
Williams	Intro. to C	4	1
Brown	Intro. to C	4	1
Zhang	Game Des	4	1
Shankar	Game Des	4	1
Williams	Game Des	4	1
Brown	Game Des	4	1
Zhang	Robotics	3	1
Shankar	Robotics	3	1
Williams	Robotics	3	1
Brown	Robotics	3	1
Zhang	Image Pro	3	1
Shankar	Image Pro	3	1
Williams	Image Pro	3	1
Brown	Image Pro	3	1
Zhang	Database	3	1
Shankar	Database	3	1
Williams	Database	3	1
Brown	Database	3	1
Aoi	Intro. to D	3	1
Bourikas	Intro. to D	3	1
Chavez	Investmer	3	1
Brandt	World His	3	1
Sanchez	Music Vid	3	1
Peltier	Physical P	4	1
Levy	Physical P	4	1
Snow	Physical P	4	1

8. select distinct name

from student natural join takes natural join course

where course.dept\_name = 'Comp. Sci.';

	name
▶	Zhang
	Shankar
	Williams
	Brown

9. select ID from instructor

where ID not in (select ID from instructor natural join teaches)

	ID
▶	76543
	58583
	33456
*	NULL

10. select name, ID from instructor

where ID not in (select ID from instructor natural join teaches)

	name	ID
▶	Gold	33456
	Califieri	58583
	Singh	76543
*	NULL	NULL

11. create table actors (

AID varchar(20),

name varchar(50),

primary key (AID));

create table movies (

MID varchar(20),

title varchar(50),

```
primary key (MID));  
  
create table actor_role (  
  
    MID varchar(20),  
  
    AID varchar(20),  
  
    rolename varchar(30),  
  
    primary key (MID,AID,rolename),  
  
    foreign key (MID) references movies(MID),  
  
    foreign key (AID) references actors(AID));
```

```
12. insert into actors values ('01','Charlie Chaplin');  
  
insert into movies values ('M1','Modern Times');  
  
insert into actor_role values ('M1','01','Factory Worker');  
  
insert into actors values ('02','Liam Neeson');  
  
insert into movies values ('M2','Schindlers List');  
  
insert into actor_role values ('M2','02','Schindler');  
  
insert into actors values ('03','Heath Ledge');  
  
insert into movies values ('M3','Brokeback Mountain');  
  
insert into actor_role values ('M3','03','Ennis Del Mar');  
  
insert into actors values ('04','M37401866');  
  
insert into movies values ('M4','SAT3210');  
  
insert into actor_role values ('M4','04','Student');  
  
insert into actors values ('05','Dan Castellaneta');  
  
insert into movies values ('M5','The Simpsons Movie');  
  
insert into actor_role values ('M5','05','Homer Simpson');
```

13. select name, title, count(rolename)

from actor\_role natural join movies natural join actors

where name = 'Charlie Chaplin';

	name	title	count(rolename)
▶	Charlie Chaplin	Modern Times	1

14. select name

from actors

where name not in (select distinct name from actor\_role natural join actors);

	name

Every actor I inserted into the table had been in a movie, so the query is returning nothing, like it should.

15. 3.3

a. update instructor set salary = salary\*1.10

where dept\_name = 'Comp. Sci.';

34634 17:39:17 update instructor set salary = salary\*1.10 where dept\_name = 'Comp. Sci.' 2 row(s) affected.

b. delete from course

where course\_id not in (select course\_id from section);

c. insert into instructor

select ID, name, dept\_name, 100000

from student

where tot\_cred>100;

34639 17:43:08 insert into instructor select ID, name, dept\_name, 100000 from student where tot\_cred>100 463 row(s) affected

16. 3.24

```
select name,id from student
where dept_name like 'Accounting' and id
in (select s_id from advisor where i_id in (select id from instructor where dept_name like
'Physics'));
```

	name	id
►	Kennedy	28952
	Sellink	63449
	Rogers	92864

17. select d2.dept\_name,d2.budget from department d1, department d2

where d1.dept\_name='philosophy'

and d2.budget>d1.budget order by d2.dept\_name desc;

The files you gave us to upload do not contain a Philosophy department, so the query returns an empty table

18.

19.

20.