



EPPS 6354

ASSIGNMENT 3

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GET A LIST OF:

STUDENT IDS

```
Select distinct takes.ID
From takes, student
Where takes.ID = student.ID;
```

INSTRUCTORS

```
Select name
From instructor;
```

INSTRUCTORS

```
Select dept_name
From department;
```

ID	name	dept_name
00128	Srinivasan	Biology
12345	Wu	Comp. Sci.
19991	Mozart	Elec. Eng.
23121	Einstein	Finance
44553	El Said	History
45678	Gold	Music
54321	Katz	Physics
55739	Califieri	
76543	Singh	
76653	Crick	
98765	Brandt	
98988	Kim	

FIND ID AND NAME OF EACH STUDENT THAT HAS TAKEN A COMP SCI COURSE.

```
Select distinct student.ID, name
From student, takes, course
Where student.ID = takes.ID and
course.course_id = takes.course_id and
course.dept_name = 'Comp. Sci.';
```

ID	name
00128	Zhang
12345	Shankar
45678	Levy
54321	Williams
76543	Brown
98765	Bourikas

ADD GRADES TO LIST (COURSE IDS ADDED FOR CONTEXT)

Select distinct student.ID, name,
takes.course_id, grade
From student, takes, course
Where student.ID = takes.ID and
course.course_id = takes.course_id and
course.dept_name = 'Comp. Sci.';

ID	name	course_id	grade
00128	Zhang	CS-101	A
00128	Zhang	CS-347	A-
12345	Shankar	CS-101	C
12345	Shankar	CS-190	A
12345	Shankar	CS-315	A
12345	Shankar	CS-347	A
45678	Levy	CS-101	F
45678	Levy	CS-101	B+
45678	Levy	CS-319	B
54321	Williams	CS-101	A-
54321	Williams	CS-190	B+
76543	Brown	CS-101	A
76543	Brown	CS-319	A
98765	Bourikas	CS-101	C-
98765	Bourikas	CS-315	B

FIND ID AND NAME OF EACH STUDENT WHO HAS NOT TAKEN ANY COURSE OFFERED BEFORE 2017

Select distinct student.ID, name
From student, takes
Where student.ID = takes.ID and not year < 2017;

ID	name
00128	Zhang
12345	Shankar
19991	Brandt
23121	Chavez
44553	Peltier
45678	Levy
54321	Williams
55739	Sanchez
76543	Brown
76653	Aoi
98765	Bourikas
98988	Tanaka

FIND THE MAXIMUM OF SALARY OF INSTRUCTORS IN EACH DEPARTMENT

```
select dept_name, max(salary)
from instructor
Group by dept_name;
```

dept_name	max(salary)
Biology	72000
Comp. Sci.	92000
Elec. Eng.	80000
Finance	90000
History	62000
Music	40000
Physics	95000

FIND THE LOWEST OF ALL THE SALARIES OF THE MAXIMUM OF SALARIES

```
Select dept_name, min(salary)
From instructor
Where salary in
(select max(salary)
from instructor
Group by dept_name);
```

dept_name	min(salary)
Music	40000

ADD NAME TO THE LIST

```
Select name, dept_name, min(salary)
From instructor
Where salary in
(select max(salary)
from instructor
Group by dept_name);
```

name	dept_name	min(salary)
Mozart	Music	40000

GET THE NUMBER OF STUDENTS IN EACH SECTION. COLUMNS SHOULD BE: COURSE ID, SEC ID, YEAR, SEMESTER, NUM.

```
Select course_id, sec_id, year, semester,  
count(ID) as num  
From takes  
Group by course_id, sec_id, year, semester;
```

course_id	sec_id	year	semester	num
BIO-101	1	2017	Summer	1
BIO-301	1	2018	Summer	1
CS-101	1	2017	Fall	6
CS-101	1	2018	Spring	1
CS-190	2	2017	Spring	2
CS-315	1	2018	Spring	2
CS-319	1	2018	Spring	1
CS-319	2	2018	Spring	1
CS-347	1	2017	Fall	2
EE-181	1	2017	Spring	1
FIN-201	1	2018	Spring	1
HIS-351	1	2018	Spring	1
MU-199	1	2018	Spring	1
PHY-101	1	2017	Fall	1