



Assignment 3

Chizoma Oparaji

Epps 6345.01

Question 2. Write SQL codes to get a list of:

- select ID
- from student
- select *
- from instructor
- select *
- from department

582

583

584

585

586

587

588

589

select ID

590

from student

591

592

select *

593

from instructor

594

595

select *

596

from department

597

Question 3. Write in SQL codes to do following queries:

Find the ID and name of each student who has taken at least one Comp. Sci. course; make sure there are no duplicate names in the result. Add grades to the list

```
select student. ID ,name, grade
from student ,takes ,course
where course.dept_name ='Comp.Sci'
and course.course_id = takes.course_id ;
```

Find the ID and name of each student who has not taken any course offered before 2017.

```
select distinct ID ,name
from student
where ID not in (select ID from takes where year<2017)
```

For each department, find the maximum salary of instructors in that department. You may assume that every department has at least one instructor.

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

Find the lowest, across all departments, of the per-department maximum salary computed by the preceding query.

```
select min(maxsalary)
from(select dept_name ,max(salary) as maxsalary
from instructor
group by dept_name)
```

Add names to the list

```
select min(maxsalary) ,name
from(select dept_name ,max(salary) as maxsalary
from instructor
group by dept_name)
```

Question 4.

- Find instructor (with name and ID) who has never given an A grade in any course she or he has taught. (Instructors who have never taught a course trivially satisfy this condition.)

```
.5
.6 select distinct teaches.ID, Name
.7 from takes, teaches, instructor
.8 where teaches.Course_ID = takes.Course_ID
.9 and instructor.Id = teaches.Id and Grade is not NULL
.10 and teaches.ID not in
.11 (select distinct teaches.Id from takes, teaches
.12 where teaches.Course_ID = takes.Course_ID
.13 and Grade="A");
.14
```