

Homework 6

EPPS 6354

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2.1

i. Express the following query in SQL using no subqueries and no set operations.

**select ID
from student
except
select s id
from advisor
where i ID is not null**

```
select distinct
  id
from
  student i
left join
  advisor s
  on
    i.id <> s.s_id
where
  i.id is not null
```

2.II

ii. Using the university schema, write an SQL query to find the names and IDs of those instructors who teach every course taught in his or her department (i.e., every course that appears in the course relation with the instructor's department name). Order result by name.

```
select
    cc.name
    , bb.id
from
    (select
        count(distinct id) ind_fac_count
        , id
        , dept_name
    from
        (select distinct
            a.id
            , a.course_id
            , b.dept_name
        from
            teaches a
        left join
            course b
        on
            a.course_id = b.course_id
        ) aa
    group by
        dept_name
    )bb
inner join
    instructor cc
on
    bb.id = cc.id
where
    ind_fac_count = 1
order by
    name
```

name	id
Crick	76766
Einstein	22222
El Said	32343
Kim	98345
Mozart	15151
Wu	12121