

Assignment 7

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1.

```
SELECT Last_name, First_name
FROM Instructor i
WHERE instructor_id NOT IN
    (SELECT i.instructor_id
     FROM Instructor i
     INNER JOIN section s
     ON i.instructor_id = s.instructor_id
     INNER JOIN grade_type_weight gtw
     ON s.section_id = gtw.section_id
     INNER JOIN grade g
     ON gtw.section_id = g.section_id
     AND gtw.grade_type_code = g.grade_type_code
     WHERE g.grade_type_code = 'PJ')
ORDER BY Last_name, First_name;
```

2.

```
select s.student_id as BELOW_AVERAGE
from student s
inner join enrollment e
on s.student_id = e.student_id
inner join grade g
on e.student_id = g.student_id
and e.section_id = g.section_id
where e.section_id = 156 and grade_type_code = 'FI'
    and numeric_grade < (select avg(numeric_grade)
    from student s
    inner join enrollment e
    on s.student_id = e.student_id
    inner join grade g
    on e.student_id = g.student_id
    and e.section_id = g.section_id
    where e.section_id = 156 and grade_type_code = 'FI');
```

3.

```
SELECT City , State
FROM zipcode z
INNER JOIN student s
ON z.zip = s.zip
INNER JOIN enrollment e
ON s.student_id = e.student_id
GROUP BY city, state
HAVING COUNT(*) =
    (SELECT MAX(num)
     FROM
        (SELECT City , State, count(*) AS num
         FROM zipcode z
         INNER JOIN student s
         ON z.zip = s.zip
         INNER JOIN enrollment e
         ON s.student_id = e.student_id
```

```
GROUP BY city, state));
```

4.

```
select s.student_id, first_name, last_name, numeric_grade
from student s
inner join enrollment e
on s.student_id = e.student_id
inner join grade g
on g.student_id = e.student_id
and g.section_id = e.section_id
where g.grade_type_code = 'FI' and g.section_id = 154
and numeric_grade = (select min(numeric_grade)
from grade
where grade_type_code = 'FI'
and section_id = 154);
```

5.

```
select student_id, last_name, first_name
from
    (select s.student_id, last_name, first_name, course_no, count(*) as Secs
    from student s
    inner join enrollment e
    on s.student_id = e.student_id
    inner join section sec
    on e.section_id = sec.section_id
    group by s.student_id, last_name, first_name, course_no)
where secs >= 2
order by last_name, first_name;
```

6.

```
SELECT s.first_name, s.last_name
FROM student s
INNER JOIN enrollment e
ON s.student_id = e.student_id
INNER JOIN section sec
ON e.section_id = sec.section_id
WHERE course_no BETWEEN 200 AND 299
GROUP BY s.first_name, s.last_name
HAVING COUNT(*) =
    (SELECT MIN(Enroll)
    FROM
        (SELECT s.first_name, s.last_name, COUNT(*) AS ENROLL
        FROM student s
        INNER JOIN enrollment e
        ON s.student_id = e.student_id
        INNER JOIN section sec
        ON e.section_id = sec.section_id
        WHERE course_no BETWEEN 200 AND 299
        GROUP BY s.first_name, s.last_name))
    ORDER BY last_name, first_name;
```

7.

```
select c.course_no, c.description
from course c
inner join section s
```

```

on c.course_no = s.course_no
inner join enrollment e
on s.section_id = e.section_id
inner join student s
on s.student_id = e.student_id
group by c.course_no, c.description
having count(*) = (select min(numcount)
from
(
select c.course_no, count(*) as numcount
from course c
inner join section s
on c.course_no = s.course_no
inner join enrollment e
on s.section_id = e.section_id
inner join student s
on s.student_id = e.student_id
group by c.course_no))
order by c.description;

```

8.

```

select distinct first_name,last_name
from student s
inner join enrollment e
on s.student_id = e.student_id
inner join section sec
on e.section_id = sec.section_id
where course_no in
(select course_no
from section
where to_char(start_date_time, 'HH:MI AM') = '10:30 AM')
order by last_name,first_name;

```

9.

```

select first_name,last_name, numeric_grade
from student s
inner join enrollment e
on s.student_id = e.student_id
inner join grade g
on e.student_id = g.student_id
and e.section_id = g.section_id
where e.section_id = 156 and grade_type_code = 'FI'
and numeric_grade <
(SELECT AVG(numeric_grade)
FROM grade
WHERE section_id = 156
AND grade_type_code ='FI')
order by numeric_grade desc, last_name, first_name;

```

10.

```

select first_name,last_name,phone
from student s
inner join enrollment e
on s.student_id = e.student_id

```

```
inner join section sect
on e.section_id = sect.section_id
inner join course c
on sect.course_no = c.course_no
where c.description = 'Intro to SQL'
or
c.description = 'Oracle Tools'
or
c.description = 'PL/SQL Programming'
or
c.description = 'Database Design'
or
c.description = 'Database System Principles'
or
c.description = 'DB Programming with Java'
order by last_name, first_name;
```