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SQL Assignment 6

1.
```
select s.instructor_id,i.first_name,i.last_name, count(*) as
"NUM_STUDENTS"
FROM enrollment e
inner join section s
on e.section_id = s.section_id
inner join instructor i
on s.instructor_id = i.instructor_id
group by s.instructor_id,i.first_name,i.last_name
having count(*) >= 25
order by "NUM_STUDENTS" DESC;
```

2.
```
select s.student_id, s.first_name, s.last_name, count(*) as
"NUM_INSTRUCTOR"
FROM student s
inner join enrollment e
on s.student_id = e.student_id
inner join section s
on e.section_id = s.section_id
group by s.student_id,s.first_name,s.last_name
having count(*) >=3
order by num_instructor desc,s.last_name,s.first_name;
```

3.
```
select s.first_name,s.last_name,g.grade_type_code,g.section_id, count(*)
as "NUM_GRADETYPECODES"
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 g.section_id = 152
group by s.first_name,s.last_name,g.grade_type_code,g.section_id
order by s.last_name,s.first_name, NUM_GRADETYPECODES desc,
g.grade_type_code;
```

4.
```
select s.first_name,s.last_name,g.grade_type_code, avg(g.numeric_grade) as
Grades
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 between 110 and 125
and grade_type_code = 'HM'
group by s.first_name,s.last_name,g.grade_type_code
having avg(g.numeric_grade) > 80
```

```
ORDER BY Grades desc,s.last_name,s.first_name;

5.
SELECT s.section_id, c.description, COUNT(*) AS Numtypes
FROM section s
INNER JOIN course c
ON s.course_no = c.course_no
INNER JOIN grade_type_weight gtw
ON gtw.section_id = s.section_id
WHERE s.section_id < 100
GROUP BY s.section_id, c.description
HAVING COUNT(*) >=3
ORDER BY Numtypes DESC, description, section_id;

6.
SELECT z.city, z.state, z.zip, COUNT(*) AS Num_Instructors
FROM zipcode z
INNER JOIN instructor i
ON z.zip = i.zip
GROUP BY z.city, z.state, z.zip
HAVING COUNT(*) >1
ORDER BY Num_Instructors DESC;

7.
SELECT description, COUNT(*) AS Numgrades
FROM grade_type gt
INNER JOIN grade_type_weight gtw
ON gt.grade_type_code = gtw.grade_type_code
INNER JOIN grade g
ON g.grade_type_code = gtw.grade_type_code
AND g.section_id = gtw.section_id
GROUP BY description
ORDER BY Numgrades DESC;

8.
SELECT c.description, COUNT(*) AS Num_Students
FROM course c
INNER JOIN section s
ON c.course_no = s.course_no
INNER JOIN enrollment e
ON e.section_id = s.section_id
GROUP BY description
HAVING COUNT(*) >10
ORDER BY Num_Students, c.description;

9.
SELECT COUNT(*) AS Num_Courses, s.student_id, 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
INNER JOIN course c
ON sec.course_no = c.course_no
```

```
GROUP BY s.student_id, s.first_name, s.last_name
HAVING COUNT(*) >2
ORDER BY Num_Courses DESC, student_id;

10.
SELECT first_name, last_name, grade_type_code, COUNT(*) AS Num_Assignments
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
GROUP BY first_name, last_name, grade_type_code
HAVING COUNT(*) >10
ORDER BY first_name, last_name;
```