

Edward Ramirez

Assignment 9

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1.
select s.student_id, first_name,last_name, count(*) as TIMES_ENROLLED,
employer
from student s
inner join enrollment e
on s.student_id =e.student_id
group by s.student_id, first_name,last_name, employer
having count(*) =
(select max(TIMES_ENROLLED)
FROM(select s.student_id, first_name,last_name, count(*) as
TIMES_ENROLLED, employer
from student s
inner join enrollment e
on s.student_id =e.student_id
group by s.student_id, first_name,last_name, employer))
order by first_name,last_name;
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2.
SELECT s.first_name as STUDENT_FIRST,s.last_name AS
STUDENT_LAST,i.first_name as INSTRUOTR_FIRST,i.last_name AS
INSTRUCTOR_LAST
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 instructor i
on sect.instructor_id = i.instructor_id
where s.zip = i.zip
order by s.first_name, s.last_name;
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3.
SELECT First_name, Last_name, City, 'Instructor' As Role
FROM instructor i
INNER JOIN zipcode z
ON i.zip = z.zip
WHERE z.zip = 10025
UNION
SELECT First_name, Last_name, City, 'Student'
FROM Student s
INNER JOIN zipcode z
ON s.zip = z.zip
WHERE s.zip = 10025
ORDER BY Role, last_name, first_name;
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4.
SELECT t1.location, sections, students
FROM
    (SELECT s.location, COUNT(*) AS Sections
    FROM section s
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        GROUP BY s.location) t1
INNER JOIN
    (SELECT location, COUNT(*) AS students
     FROM section s
     INNER JOIN enrollment e
     ON s.section_id = e.section_id
     GROUP BY location) t2
ON t1.location = t2.location
ORDER BY location;

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5.
SELECT Grade_type_code, numeric_grade Grade
FROM Grade
WHERE student_id = 139
AND section_id = 95
UNION ALL
SELECT 'Average for student 139 is',
ROUND(AVG(numeric_grade), 2)
FROM grade
WHERE student_id = 139
AND section_id = 95
ORDER BY Grade_type_code Desc;

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6.
SELECT first_name,last_name, NVL(SECTIONS,0) as SECTIONS
from instructor i
    left outer join( select instructor_id, count(*) as SECTIONS
                    from section
                    group by instructor_id) t1
ON i.instructor_id = t1.instructor_id
order by last_name;

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7.
SELECT course_no, description,count(*) as TOTALYGRADETYPES
from (select distinct c.course_no,description, grade_type_code
     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
     inner join grade g
     on e.section_id = g.section_id
     and e.student_id = g.student_id)
group by course_no, description
having count(*) = (Select count(*) FROM grade_type)
order by course_no;

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8.
SELECT z.zip, z.City, z.State, NVL(STUDENTS, 0) As STUDENTS
FROM zipcode z
LEFT OUTER JOIN
    (SELECT zip, COUNT(*) STUDENTS
     FROM student s
     GROUP BY zip)t1

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ON z.zip = t1.zip
WHERE City = 'Astoria'
AND State = 'NY'
ORDER BY zip;
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9.
SELECT r.Course_no, Description, NVL(enrolled, 0) As ENROLLMENTS
FROM course r
LEFT OUTER JOIN
(SELECT c.course_no, COUNT(*) As enrolled
FROM Enrollment e
INNER JOIN section s
ON e.section_id = s.section_id
INNER JOIN course c
ON s.course_no = c.course_no
GROUP BY c.course_no)t1
ON r.course_no = t1.course_no
where description like '%Programming%'
order by ENROLLMENTS DESC;
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10.
select s.student_id, first_name, last_name, NVL(t1.ENROLLMENTS,0) as
ENROLLMENTS
from student s
left outer join (select s.student_id, count(*) as ENROLLMENTS
                 from student s
                 inner join enrollment e
                 on s.student_id = e.student_id
                 group by s.student_id)t1
on s.student_id = t1.student_id
where phone like '203%'
order by last_name asc,first_name;
```