Aggregate Function

1. Find the number of instructors who have never taught any course. If the result of your query is empty, add appropriate data (and include corresponding insert statements) to ensure the result is not empty.
2. Find the total capacity of every building in the university
3. Find the maximum number of teachers for any single course section.  Your output should be a single number.  For example if CS-101 section 1 in Spring 2012 had 3 instructors teaching the course, and no other section had more instructors teaching the section, your answer would be 3.
4. Find all departments that have at least one instructor, and list the names of the departments along with the number of instructors;   order the result in descending order of number of instructors.
5. As in the previous question, but this time you should include departments even if they do not have any instructor, with the count as 0
6. For each student, compute the total credits they have successfully completed, i.e. total credits of courses they have taken, for which they have a non-null grade other than 'F'. Do NOT use the tot\_creds attribute of student.
7. Find the number of students who have been taught (at any time) by an instructor named 'Srinivasan'. Make sure you count a student only once even if the student has taken more than one course from Srinivasan.
8. Find the name of all instructors who get the highest salary in their department.
9. Find enrollment of each section that was offered in autumn 2009
10. Find the maximum enrollment across all sections in autumn 2009
11. Find the sections that had the maximum enrollment in autumn 2009
12. Find the total money spent by each department for salaries of instructors of that department.

Nested Queries

1. Find the id and title of all courses which do not require any prerequisites.
2. Find the names of students who have not taken any biology dept courses
3. Give a 10% hike to all instructors.
4. For all instructors who are advisors of atleast 2 students, increase their salary by 50000.
5. Increase the salary of each instructor in computer science department by 10%
6. Delete all courses that have never been offered
7. Insert every student whose tot\_cred attributes is greater than 100 as an instructor in the same department with salary of 10000.

Insert into instructor select id,name,dept\_name,10000 from student where tot\_cred>=100