Advanced SQL-2

Using the university schema that you have write the following queries. In some cases you might need to insert extra data to show the effect of a particular feature.

1. For courses which have never been offered (that is , the courses have no corresponding rows in section), insert a new section corresponding to each course as such. Every section inserted would be offered in winter, 2012.

2. Delete all instructors who have never taught any course.

3. Update the salary of each instructor with addition of 1120 times the credits they have taught(Note: for example, one instructor teaches some course which has 3 credit twice, then the instructor should get additional 1120*6 dollars, besides his original salary)

4. Grades are mapped to a grade point as follows: A:10, A+:10.5,A-:9.5, B+ 8.5,B:8, B-:7.5 ,C+:6.5 ,C:6, C-:5.5, D+:4.5,D:4,D-:3.5 and F:0. Write a query to find the average grade point of each student. Make sure students who have not got a non-null grade in any course are displayed with an average grade point of null. Information displayed should involve:

- Identifier of student
- Name of student
- Count of course registered by the student
- Average grade point

5. Find all rooms that have been assigned to more than one section at the same time. Display the rooms along with the assigned sections; I suggest you use a with clause or a view to simplify this query.