

Prepare your solution for this assignment in a text file. Turn in this assignment electronically using the digital dropbox on Blackboard. Name your file as indicated below. Points will be deducted for improperly formatted filenames.

<youronyen>-hw6.sql

Write a PL/SQL program that meets the following requirements.

Your PL/SQL program should compute and display the yearly bonus for employees of a software company. The bonus is based on: 1) number of years of service, 2) job level, and 3) an evaluation rating given by the employee's boss. For each year of service up to and including 10, an employee gets 0.5% of their base salary added to their bonus. There are 4 job levels, number 1-4. Job level 1 does not affect the bonus. Job levels 2 & 3 get \$500 added to their bonus. Job level 4 gets \$1000 added to their bonus. There are four evaluation ratings: excellent, good, average, and poor: 'excellent' adds an additional 1% to an employee's bonus and 'good' adds 0.5%. An evaluation of 'average' does not affect the bonus. An evaluation of 'poor' **subtracts** 0.5% from the bonus. No employee's bonus can be less than zero.

Your PL/SQL code should use a table called EMPLOYEE defined as follows:

```
CREATE TABLE employees (  
    eid NUMBER(10) PRIMARY KEY,  
    ename VARCHAR2(40),  
    startdate DATE,  
    jlevel INTEGER CHECK (jlevel >=1 AND jlevel <= 4),  
    basesalary INTEGER,  
    rating VARCHAR2(40)  
);
```

A set of sample data for the EMPLOYEE table is posted on the course web site:

[http://www.ils.unc.edu/courses/2007\\_fall/inls723\\_001/hw6/hw6data.txt](http://www.ils.unc.edu/courses/2007_fall/inls723_001/hw6/hw6data.txt)

Compute the number of years of service for each employee using their start date and today's date.

The output of your PL/SQL program should display a list with bonuses for each employee in the following format: the employee id and name followed by the value of that employee's bonus. For grading, your code will be run using the employees table and sample data mentioned above.