Oracle Project (Part 3)

Deadline: 12/1/2011

For your college database created in part 1&2:

- Create a Package college that will contain all your work.
  Decide which blocks public and which are private.
- Create Procedures that make the following:
  - (table or view name)_Insert that Insert data in each table and view.
  - Degree_update that update the degree for any student according to student_id
  - Teacher_update that update the teacher_id for any teacher in course table.
  - Head_id_update that update the head of any department and return the previous head
  - Delete_teacher that delete a teacher from the table teachers and return "teacher name" is deleted.
  - Print_Teacher_Name(): print the first name and the last name for all teachers in the heads department
  - Print_Students(): Has two versions:
    1- prints the fist name and the last name and grade for all the students in a specific course.
    2- Prints the fist name, the last name, course and grade for all the students taught by one teacher.

- Create Functions that make the following:
  - Teacher_info that display Teacher name (first and last name) and take teacher_id as parameter.
  - Course_description that display Course description and take course code as parameter.

- Create Triggers that make the following:
  - logon_trigger that add "user_id, log_date and action('Logging on')" on log_trig_table .
  - logoff_trigger that add "user_id, log_date and action('Logging off')" on log_trig_table .
  - secure_trigger that Check that departments_heads don't insert, update and delete on teachers and courses tables outside work hours .(work hours from SAT to WED between '08:00' AND '18:00 ' ).
  - Foreign key _trigger for each Foreign key that Add each Foreign key to Original table if not exit and make "DUP_VAL_ON_INDEX" EXCEPTION if it exit.
Important Notes:

1- Group of two students will be allowed (Maximum).
2- Copy projects will be graded to zero.
3- Each Project must be well commented on the report.
4- All Statements you use must be added to the report.
5- Each Project will be discussed.