



Islamic University of Gaza
Faculty of Engineering
Computer Department

Advanced DataBase ECOM 5354
Instructor: Eng. Husam Alzaq
T.A: Eng. Mohammad A. El Hindi
T.A: Eng. Doaa KH. Abu Jabal

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:
 - **login_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.



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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.