**CSE 311**

**SET B**

Run the commands of Part 1 of the “supporting commands operation.txt” file.

1. Your first task is to implement a function named ***default\_working\_project*** which takes a department id as its input and returns the status of the working project based on following algorithm
   1. If the department id is invalid (null) the status is ‘NULL department’
   2. Otherwise
      1. If the average salary of all the employees working under the department is greater than or equal to 10500, then the status is ‘GRAND’
      2. If the average salary of all the employees working under the department is less than 10500 but greater than 9000, then the status is ‘MEDIUM’
      3. Otherwise, the status is ‘SMALL’
2. Now implement another function named ***default\_salary*** which takes two inputs : department id and working project status. If the working project status is invalid (null), then the function first determine the working project status using the function ***default\_working\_project***. Next, the function returns salary by calculating it based on the following algorithm
   1. If the working project status is ‘GRAND’, salary is 14000.
   2. If the working project status is ‘MEDIUM’, salary is 10000.
   3. In all other cases, salary is 6000.
3. Finally, you will have to create a trigger named ***check\_entry*** which checks whether, the department id given during insert operation, is a new type of department or a department already exists. If the department is a new one, then the trigger does nothing but shows a message ‘Doing Nothing’. If the department is an existing one, then the trigger does the following things.
   1. First it checks whether the salary of the record to be inserted is null or not. If it is null, the trigger sets the salary to the value calculated by the ***default\_salary*** function.
   2. If the salary of the record to be inserted is NOT null, only then trigger calculates working project status. If the working project status of the record to be inserted is null, then the trigger sets the working project status to the value calculated by ***default\_working\_project*** function.
   3. Otherwise the trigger shows the message ‘No change’.

Run the commands of Part 2 of the “supporting commands operation.txt” file to check whether the trigger is working correctly or not.