**CSE 311**

**SET A**

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 manager id as its input and returns the status of the working project based on following algorithm
   1. If the manager id is invalid (null) the status is ‘NULL manager’
   2. Otherwise
      1. If the average salary of all the employees working under the manager is greater than or equal to 10000, then the status is ‘GRAND’
      2. If the average salary of all the employees working under the manager is less than 10000 but greater than 8000, then the status is ‘MEDIUM’
      3. Otherwise, the status is ‘SMALL’
2. Now implement another function named ***default\_salary*** which takes two inputs : manager 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 15000.
   2. If the working project status is ‘MEDIUM’, salary is 9000.
   3. In all other cases, salary is 5000.
3. Finally, you will have to create a trigger named ***check\_entry*** which checks whether, the manager id given during insert operation, is a new type of manager or a manager already exists. If the manager is a new one, then the trigger does nothing but shows a message ‘Doing Nothing’. If the manager 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.