

CSE 4508 – RDBMS Programming Lab

Lab 8 – Group 1A

Instructor: Md. Mezbaur Rahman

A. Write a simple trigger for updates (on a table of your choice) which prints the old values as well as the new values of the concerned rows.

B. IUT wants to create a database for all students. The student table consists of four rows: ID (varchar2), Date of Admission (date), Department (Varchar2), Program (Varchar2), Section (Varchar2). Department, Program and Section are 1 character strings with values ranging from '1' to '6'. Now create a function Gen_ID which generates an ID (a string) automatically in the following format:

YYDPSXXX

YY are the last two digits of the year, extracted from the Date of Admission. D is Dept number, P is Programme number and S is Section Number each of 1 character. XXX is an automatically generated number (you can use a sequence, like 001 for first entry, then 002 for next and so on) that increments as you add new members. Once you have made Gen_ID, create a trigger such that, every time you insert into the table Student with only the Date of Admission, Department, Program, and Section, the ID is not given as input and rather automatically generated by calling Gen_ID inside the trigger and then inserted automatically along with the other components.