CSE216, July 2022

Trigger Online

Create the following table:

CREATE TABLE student ( ID VARCHAR2(10) PRIMARY KEY,

NAME VARCHAR2(50) NOT NULL,

AGE NUMBER(3),

CGPA NUMBER (3,1)

ADDR\_LINE1 VARCHAR2(50) NOT NULL,

ADDR\_LINE2 VARCHAR2(50),

CITY VARCHAR2(50) NOT NULL,

DISTRICT VARCHAR2(50) NOT NULL ) ;

Q1:

Create a trigger named **tr-insert-delete-(your id)** that will be executed **before** an insertion or deletion of a record in STUDENT table and display the inserted record.

Test the trigger by inserting your information with a heading “The inserted record is:”.

Test the trigger by deleting your information with a heading “The deleted record is:”.

Q2:

Create a trigger named **tr-update-(your id)** that will be executed **after update** in STUDENT table and display the following information. The trigger will be executed only when CGPA update and updated CGPA must be greater than 0 and less than 4.

Test the trigger by updating your CGPA and display the information with a heading “The update information is:”.

ID

Name

CGPA before update

CGPA after update

Q3. Create a trigger named **tr-backup-(your id)** that will be executed **after delete** in STUDENT table. If the city of the deleted record is ‘Dhaka’, then the record will be inserted to student-dhaka relation. For others, the record will be inserted to student-others relation. The students of ‘Bandarban’ must be protected from deletion by the trigger.