Assignment 8

201001001013

1. Create a table named StudentBkup having the same structure as Student. One

identity primary key column to be added as studentBkupId. No other constraint needs to be created.

CREATE TABLE STUDENTBKUP(

STUDENTBKUPID INT PRIMARY KEY,

STUDENTNAME VARCHAR(50),

DEPTNAME VARCHAR(50),

EXAM\_MARKS INT,

DETAILS VARCHAR(100)

);

2. Create a table named ExamMarksNew having the same structure as ExamMarks. One identity primary key column to be added as examMarksNewId. No other constraint needs to be created.

CREATE TABLE EXAMMARKSNEW(

EXAMMARKSNEWID INT PRIMARY KEY,

EXAM\_MARKS INT,

DETAILS VARCHAR(100)

);

3. Create a DML after trigger to insert the deleted/modified data from Student table to StudentBkup table every time a delete or update happens on the table.

CREATE TRIGGER TR\_STUDENT\_FORDELETE

ON STUDENT

FOR DELETE

AS

BEGIN

DECLARE @ID INT, @NAME VARCHAR(50), @DNAME VARCHAR(50), @MARKS INT

SELECT @ID=STUDENTID FROM DELETED

SELECT @NAME=STUDENTNAME FROM DELETED

SELECT @DNAME=DEPTNAME FROM DELETED

SELECT @MARKS=EXAM\_MARKS FROM DELETED

INSERT INTO STUDENTBKUP VALUES(@ID, @NAME, @DNAME, @MARKS, 'DELETED THIS STUDENT RECORDS AT TIME:- ' + CAST(GETDATE() AS NVARCHAR(20)))

END

CREATE TRIGGER TR\_STUDENT\_FORMODIFY

ON STUDENT

FOR UPDATE

AS

BEGIN

DECLARE @ID INT, @NAME VARCHAR(50), @DNAME VARCHAR(50), @MARKS INT

SELECT @ID=STUDENTID FROM DELETED

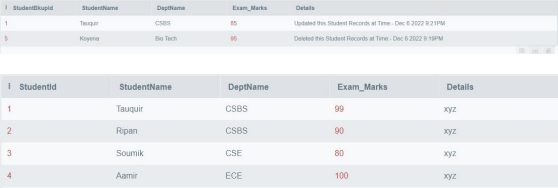
SELECT @NAME=STUDENTNAME FROM DELETED

SELECT @DNAME=DEPTNAME FROM DELETED

SELECT @MARKS=EXAM\_MARKS FROM DELETED

INSERT INTO STUDENTBKUP VALUES(@ID, @NAME, @DNAME, @MARKS, 'UPDATED THIS STUDENT RECORDS AT TIME:- ' + CAST(GETDATE() AS NVARCHAR(20)))

END



Question 4. Create a DML instead of trigger to INSERT the data to be modified/added in ExamMarks table to ExamMarksNew table every time an update/INSERT happens on the table. There will be no change to the original table data.

CREATE TRIGGER TR\_EXAM\_MARKS\_INSTEADOF\_INSERT

ON EXAMMARKS

INSTEAD OF INSERT

AS BEGIN

DECLARE @ID INT, @MARKS INT

SELECT @ID=EXAMMARKSID FROM INSERTED

SELECT @MARKS=EXAM\_MARKS FROM INSERTED

INSERT INTO EXAMMARKSNEW VALUES(@ID, @MARKS, 'INSERTED THIS DETAILS AT TIME:- ' + CAST(GETDATE() AS NVARCHAR(20)))

END

INSERT INTO EXAMMARKS VALUES(5,98,'XYZ'); CREATE

TRIGGER TR\_EXAM\_MARKS\_INSTEADOF\_UPDATE

ON EXAMMARKS

INSTEAD OF UPDATE

AS

BEGIN

DECLARE @ID INT, @MARKS INT

SELECT @ID=EXAMMARKSID FROM INSERTED

SELECT @MARKS=EXAM\_MARKS FROM INSERTED

INSERT INTO EXAMMARKSNEW VALUES(@ID, @MARKS, 'UPDATED THIS DETAILS AT TIME:- ' +

CAST(GETDATE() AS NVARCHAR(20)))

END

