Triggers

Question 1

Create triggers for the table Employee\_personal : insert, delete and update

DROP TABLE IF EXISTS Employee\_personal\_audits;

CREATE TABLE Employee\_personal\_audits (

change\_id INT IDENTITY(1,1) PRIMARY KEY,

EMPID INT NOT NULL,

name VARCHAR(25) NOT NULL,

Grade CHAR(1),

action\_performed VARCHAR(25) NOT NULL,

CHECK(action\_performed='INSERT' OR action\_performed='DELETE')

);

-- Trigger

CREATE TRIGGER trg\_emp\_personal\_audit

ON Employee\_personal

AFTER INSERT, DELETE

AS

BEGIN

SET NOCOUNT ON;

INSERT INTO Employee\_personal\_audits (

EMPID

,name

,Grade

,action\_performed

)

SELECT

i.EMPID

,name

,Grade

,'INSERT'

FROM

inserted i

UNION ALL

-- delete

SELECT

d.EMPID

,name

,Grade

,'DELETE'

FROM

deleted d

END

CREATE TRIGGER trg\_emp\_personal\_audit\_upt

ON Employee\_personal

FOR UPDATE

AS

BEGIN

SET NOCOUNT ON;

-- update

UPDATE Employee\_personal\_audits

SET Grade = 'A'

FROM Employee\_personal\_audits epa

INNER JOIN inserted i ON epa.EMPID = i.EMPID

END

-- Testing

INSERT INTO Employee\_personal

(EMPID, NAME,PLACE,GENDER,AVAILABLE,PHNO,DEPARTMENT,Rank,Grade,Project\_Platform)

VALUES

(9,'Test','Place\_1','male','no','6546','eng',1,'a','sql');

DELETE FROM Employee\_personal

WHERE EMPID = 9;

UPDATE Employee\_personal

SET Grade = 'A'

WHERE EMPID = 9;

SELECT \* FROM Employee\_personal;

SELECT \* FROM Employee\_personal\_audits;



