Advance Database Management System Lab

Experiment- 12

To understand the concepts of Trigger.

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Batch- 2

```sql
CREATE TABLE CUSTOMER(ID INTEGER PRIMARY KEY,NAME
VARCHAR(20), AGE INTEGER, ADDRESS VARCHAR(30), SALARY
DECIMAL(20,0));
INSERT INTO CUSTOMER VALUES(1, 'Ramesh', 32, 'Ahmedabad',
2000.00);
INSERT INTO CUSTOMER VALUES(2, 'Khilan', 25,
'Delhi',1500.00);
INSERT INTO CUSTOMER VALUES(3, 'Kaushik', 23, 'Kota',
2000.00);
INSERT INTO CUSTOMER VALUES(4, 'Chaitali', 25,
'Mumbai',6500.00);
INSERT INTO CUSTOMER VALUES(5, 'Hardik', 27,
'Bhopal',8500.00);
INSERT INTO CUSTOMER VALUES(6, 'Komal', 22, 'MP',4500.00);
CREATE TABLE CUSTOMER_AUDIT(ID INTEGER, NAME VARCHAR(20),
AGE INTEGER, ADDRESS VARCHAR(30), SALARY DECIMAL(20,0),
Audit_Action varchar(100), Audit_Timestamp datetime );
CREATE TRIGGER After_Insert ON [dbo].[CUSTOMER] FOR INSERT
AS declare @EMPID INTEGER; declare @EMPNAME VARCHAR(20);
declare @EMPAGE INTEGER; declare @EMPADDRESS VARCHAR(30);
declare @EMPSALARY DECIMAL(20,0); declare @audit_Action
varchar(100);
select @EMPID=i.ID from inserted i;
select @EMPNAME=i.NAME from inserted i;
select @EMPAGE=i.AGE from inserted i;
select @EMPADDRESS=i.ADDRESS from inserted i;
select @EMPSALARY=i.SALARY from inserted i;
set @audit_action='Inserted Record -- After Insert
Trigger.';

insert into CUSTOMER_AUDIT (ID,NAME,AGE,ADDRESS,SALARY,
Audit_Action,Audit_Timestamp)
```

```sql
values(@EMPID,@EMPNAME,@EMPAGE,@EMPADDRESS,
@EMPSALARY,@audit_action,getdate());
PRINT 'AFTER INSERT trigger fired.'
INSERT INTO CUSTOMER VALUES(105,'Chetan', 25,
'jaipur',6500.00);
SELECT * FROM CUSTOMER_AUDIT;
CREATE TRIGGER After_Delete ON [dbo].[Employee] AFTER
DELETE AS declare @EMPID INTEGER; declare @EMPNAME
VARCHAR(20); declare @EMPAGE INTEGER; declare @EMPADDRESS
VARCHAR(30); declare @EMPSALARY DECIMAL(20,0); declare
@audit_Action varchar(100);
select @EMPID=i.ID from deleted d;
select @EMPNAME=i.NAME from deleted d;
select @EMPAGE=i.AGE from deleted d;
select @EMPADDRESS=i.ADDRESS from deleted d;
select @EMPSALARY=i.SALARY from deleted d;
set @audit_action='deleted Record -- After delete
Trigger.';
insert into CUSTOMER_AUDIT (ID,NAME,AGE,ADDRESS,SALARY,
Audit_Action,Audit_Timestamp)
values(@EMPID,@EMPNAME,@EMPAGE,@EMPADDRESS,
@EMPSALARY,@audit_action,getdate());
PRINT 'AFTER DELETE trigger fired.'
DELETE FROM CUSTOMER WHERE ID=6
select * from CUSTOMER
select * from CUSTOMER
```

Output:

	ID	NAME	AGE	ADDRESS	SALARY
1	1	Ramesh	32	Ahmedabad	2000
2	2	Khilan	25	Delhi	1500
3	3	Kaushik	23	Kota	2000
4	4	Chaitali	25	Mumbai	6500
5	5	Hardik	27	Bhopal	8500

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