**Let’s create after triggers. First of all, let’s create a table and insert some sample data. Then, on this table, I will be attaching several triggers.**

CREATE TABLE Employee\_Test

(

Emp\_ID INT Identity,

Emp\_name Varchar(100),

Emp\_Sal Decimal (10,2)

)

INSERT INTO Employee\_Test VALUES ('Anees',1000);

INSERT INTO Employee\_Test VALUES ('Rick',1200);

INSERT INTO Employee\_Test VALUES ('John',1100);

INSERT INTO Employee\_Test VALUES ('Stephen',1300);

INSERT INTO Employee\_Test VALUES ('Maria',1400);

Now, create the audit table as:-

CREATE TABLE Employee\_Test\_Audit

(

Emp\_ID int,

Emp\_name varchar(100),

Emp\_Sal decimal (10,2),

Audit\_Action varchar(100),

Audit\_Timestamp datetime

)

**Insert Trigger**

This trigger is fired after an INSERT on the table. Let’s create the trigger as:

CREATE TRIGGER trgAfterInsert ON [dbo].[Employee\_Test]

FOR INSERT

AS

declare @empid int;

declare @empname varchar(100);

declare @empsal decimal(10,2);

declare @audit\_action varchar(100);

select @empid=i.Emp\_ID from inserted i;

select @empname=i.Emp\_Name from inserted i;

select @empsal=i.Emp\_Sal from inserted i;

set @audit\_action='Inserted Record -- After Insert Trigger.';

insert into Employee\_Test\_Audit

(Emp\_ID,Emp\_Name,Emp\_Sal,Audit\_Action,Audit\_Timestamp)

values(@empid,@empname,@empsal,@audit\_action,getdate());

PRINT 'AFTER INSERT trigger fired.'

GO

**UPDATE Trigger**

This trigger is fired after an update on the table. Let’s create the trigger as:

CREATE TRIGGER trgAfterUpdate ON [dbo].[Employee\_Test]

FOR UPDATE

AS

declare @empid int;

declare @empname varchar(100);

declare @empsal decimal(10,2);

declare @audit\_action varchar(100);

select @empid=i.Emp\_ID from inserted i;

select @empname=i.Emp\_Name from inserted i;

select @empsal=i.Emp\_Sal from inserted i;

if update(Emp\_Name)

set @audit\_action='Updated Record -- After Update Trigger.';

if update(Emp\_Sal)

set @audit\_action='Updated Record -- After Update Trigger.';

insert into Employee\_Test\_Audit(Emp\_ID,Emp\_Name,Emp\_Sal,Audit\_Action,Audit\_Timestamp)

values(@empid,@empname,@empsal,@audit\_action,getdate());

PRINT 'AFTER UPDATE Trigger fired.'

GO

**DELETE Trigger**

This trigger is fired after a delete on the table. Let’s create the trigger as:

CREATE TRIGGER trgAfterDelete ON [dbo].[Employee\_Test]

AFTER DELETE

AS

declare @empid int;

declare @empname varchar(100);

declare @empsal decimal(10,2);

declare @audit\_action varchar(100);

select @empid=d.Emp\_ID from deleted d;

select @empname=d.Emp\_Name from deleted d;

select @empsal=d.Emp\_Sal from deleted d;

set @audit\_action='Deleted -- After Delete Trigger.';

insert into Employee\_Test\_Audit

(Emp\_ID,Emp\_Name,Emp\_Sal,Audit\_Action,Audit\_Timestamp)

values(@empid,@empname,@empsal,@audit\_action,getdate());

PRINT 'AFTER DELETE TRIGGER fired.'

GO