Create trigger trgr\_Employee on Employee after update

as

begin

set ansi\_nulls on

set quoted\_identifier on

IF (SELECT @@ROWCOUNT) =0

RETURN

declare @tab1 table(column\_name varchar(20))

insert into @tab1 select name from sys.columns where object\_id=(select object\_id('Employee'))

declare @column nvarchar(20)

select \*,row\_number()over(order by id) as rid into #insert from inserted

select \*,row\_number()over(order by id) as rid into #delete from deleted

declare @cnt int

set @cnt=(select count(\*) from @tab1)

declare @pow int

declare @i int=0

while(@i<@cnt)

begin

set @column=cast((select top(1) column\_name from @tab1) as varchar)

delete top(1) from @tab1

set @pow=power(2,@i)

if(columns\_updated()& @pow > 0)

begin

declare @sql nvarchar(4000)

set @sql = N'insert into test2 select ''Employee'' '+' as table\_name,'''+@column+'''as column\_name,d.'+@column+',i.'+@column+',

SYSTEM\_USER as username, getdate() as date\_modified from #insert i join #delete d on i.rid=d.rid'

exec (@sql)

end

set @i=@i+1

end

end