

## DB\_HW Trigger 605546001

create trigger audit\_update --在original\_table UPDATE時觸發

on [dbo].[original\_table]

for update

as

begin

Declare @PID varchar(50);

Declare @Name varchar(50);

Declare @Birth varchar(50);

Declare @SeqNo varchar(50);

Declare @Eplee varchar(50);

Declare @DateTime varchar(50);

Declare @OP varchar(50);

select @PID=original\_table.PID from original\_table;

select @Name=original\_table.Name from original\_table;

select @Birth=original\_table.Birth from original\_table;

select @SeqNo=original\_table.SeqNo from original\_table;

select @Eplee=original\_table.Eplee from original\_table;

select @DateTime=original\_table.DateTime from original\_table;

select @OP='UPDATE'

begin

insert into shadow\_table

(PID,Name,Birth,SeqNo,Eplee,DateTime,OP)

Values

(

@PID,

@Name,

@Birth,

@SeqNo,

@Eplee,

@DateTime,

@OP

```

)
end
end

create trigger audit_insert --在original_table INSERT時觸發
on [dbo].[original_table]
for insert
as

begin
Declare @PID varchar(50);
Declare @Name varchar(50);
Declare @Birth varchar(50);
Declare @SeqNo varchar(50);
Declare @Eplee varchar(50);
Declare @DateTime varchar(50);
Declare @OP varchar(50);

select @PID=original_table.PID from original_table;
select @Name=original_table.Name from original_table;
select @Birth=original_table.Birth from original_table;
select @SeqNo=original_table.SeqNo from original_table;
select @Eplee=original_table.Eplee from original_table;
select @DateTime=original_table.DateTime from original_table;
select @OP= 'INSERT'

begin
insert into shadow_table
(PID,Name,Birth,SeqNo,Eplee,DateTime,OP)
Values
(
@PID,
@Name,
@Birth,
@SeqNo,

```

```

    @Eplee,
    @DateTime,
    @OP
)
end
end

create trigger audit_delete --在original_table DELETE時觸發
on [dbo].[original_table]
for delete
as

begin
Declare @PID varchar(50);
Declare @Name varchar(50);
Declare @Birth varchar(50);
Declare @SeqNo varchar(50);
Declare @Eplee varchar(50);
Declare @DateTime varchar(50);
Declare @OP varchar(50);

select @PID=original_table.PID from original_table;
select @Name=original_table.Name from original_table;
select @Birth=original_table.Birth from original_table;
select @SeqNo=original_table.SeqNo from original_table;
select @Eplee=original_table.Eplee from original_table;
select @DateTime=original_table.DateTime from original_table;
select @OP='DELETE'

begin
insert into shadow_table
(PID,Name,Birth,SeqNo,Eplee,DateTime,OP)
Values
(
    @PID,

```

```

@Name,
@Birth,
@SeqNo,
@Eplee,
@DateTime,
@OP
)
end
end

```

Database - DESKTOP-6UVMAC0\mac (SQL) | Tables: sql - not connected

```

-- create table shadow_table
create table shadow_table (
    PID varchar(50),
    Name varchar(50),
    Birth varchar(50),
    SeqNo varchar(50),
    Eplee varchar(255),
    DateTime datetime,
    OP varchar(255)
)

-- create table original_table
create table original_table (
    PID varchar(50),
    Name varchar(50),
    Birth varchar(50),
    SeqNo varchar(50),
    Eplee varchar(255),
    DateTime datetime,
    OP
)

```

100 %

Results: 1 Message

	PID	Name	Birth	SeqNo	Eplee	DateTime
1	112	John	1980	1	DESKTOP-6UVMAC0\mac	2018-06-04 20:36:39.277

  

	PID	Name	Birth	SeqNo	Eplee	DateTime	OP
1	112	John	1980	1	DESKTOP-6UVMAC0\mac	2018-06-04 20:23:00.000	INSERT
2	112	John	1980	1	DESKTOP-6UVMAC0\mac	2018-06-04 20:34:00.000	INSERT
3	112	John	1981	1	DESKTOP-6UVMAC0\mac	2018-06-04 20:34:00.000	UPDATE