

Trigger Q2

Create a transparent audit system for a table clientmaster. The system has to keep track of records that have been removed or modified and when they have been removed or modified.
Table

details are given below:

AuditClient: name, bal_due, operation, Op_date

Clientmaster: c_no, name, address, bal_due

```
SQL> create table clientmaster(c_no int primary key, name varchar(50), address varchar(30), bal_due int);
Table created.

SQL> create table auditclient(name varchar(50), bal_due int, operation varchar(30), op_date date);
Table created.

SQL> desc auditclient
Name                                     Null?      Type
-----
NAME                                     VCHAR2(50)
BAL_DUE                                  NUMBER(38)
OPERATION                                VCHAR2(30)
OP_DATE                                  DATE

SQL> desc clientmaster
Name                                     Null?      Type
-----
C_NO                                     NOT NULL   NUMBER(38)
NAME                                     VCHAR2(50)
ADDRESS                                  VCHAR2(30)
BAL_DUE                                  NUMBER(38)
```

Trigger:

create or replace trigger auditlog

after update or delete on clientmaster

for each row

begin

if updating then

```

        insert into auditclient values(:new.name, :new.bal_due, 'UPDATE', SYSDATE);
    else
        insert into auditclient values(:old.name, :old.bal_due, 'DELETE', SYSDATE);
    end if;
end;
/

```

Output:

```
SQL> select * from auditclient;
```

NAME	OP_DATE	BAL_DUE	OPERATION
Josh	08-FEB-23	500	UPDATE
Jake	08-FEB-23	3000	DELETE

```
SQL>
```