## **❖** ASSIGNMENT NO: 07

Aim: Write A Database trigger on library table system should keep track of records that are being updated or deleted the old value of updated records should deleted records be in library audit table.

SQL\*Plus: Release 11.2.0.2.0 Production on Tue Oct 15 06:03:35 2024

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SQL> connect Enter

user-name: system

Enter password:

Connected.

SQL> create table lib2(bno number(11),bname varchar2(11),author varchar2(11),allowed\_days number(11));

Table created.

SQL> insert into lib2 values(1,'IOT','Mr.Omkar',11);

1 row created.

SQL> insert into lib2 values(2,'CNS','Mr.Krishna',15);

1 row created.

SQL> insert into lib2 values(3,'DBMS','Mr.Vivek',20);

1 row created.

SQL> insert into lib2 values(4,'SPOS','Mr.Dumbre',25);

1 row created.

SQL> select \* from lib2;

BNO	BN	AME	AUT	HOR	ALLO	WED_	_DAYS
	1	IOT		Mr.Om	ıkar		11
	2	CNS		Mr.Kris	hna		15

```
25
      4
           SPOS
                      Mr.Dumbre
SQL> create table lib2_audit(bno number(11),old_allowed_days
number(11),new_allowed_days number(11));
Table created.
SQL> create or replace trigger trg 1
2 before update or delete on lib2
3 for each row
4 begin
5 insert into lib2_audit values(:new.bno,:old.allowed_days,:new.allowed_days);
6 end;
7 /
Trigger created.
SQL> update lib2 set allowed_days=11 where bno=1;
1 row updated.
SQL> select * from lib2
2
SQL>
SQL> select * from lib2;
   BNO BNAME AUTHOR ALLOWED DAYS
1 IOT Mr.Omkar
                        11
2 CNS
         Mr.Krishna
                         15
3 DBMS
          Mr.Vivek
                          20
```

3

DBMS

Mr.Vivek

20

4 SPOS Mr.Dumbre 25

SQL> update lib2 set allowed\_days=40 where bno=1;

1 row updated.

SQL> select \* from lib2;

BNO	BNAI	ME AUTHOI	R ALLOWED_DAY	'S
1	IOT	Mr.Omkar	40	
2	CNS	Mr.Krishna	15	
3	DBMS	Mr.Vivek	20	
4	SPOS	Mr.Dumbre	25	

SQL> select \* from lib2\_audit;

BNO	OLD_ALLOWED_DAYS	NEW_ALLOWED_DAY		
1	11	11		
1	11	40		

SQL> delete from lib2 where bno=2;

1 row deleted.

SQL> select \* from lib2;

BNO BNAME AUTHOR ALLOWED\_DAYS