```
NAME : ANSHUL AHER
BATCH : P
ROLL NO: 10
PRN : F21113010
ASSIGNMENT NO : A8
ASSIGNMENT TITLE: Database Trigger (All Types: Row level and Statement
level triggers, Before and After Triggers).
______
SQL*Plus: Release 19.0.0.0.0 - Production on Thu Nov 2 21:19:42 2023
Version 19.3.0.0.0
Copyright (c) 1982, 2019, Oracle. All rights reserved.
Enter user-name: sys as sysdba
Enter password:
Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0
SQL> create table library table (roll no int ,name varchar(50),
date of issue date ,name of book varchar(50) ,status varchar(10));
Table created.
SQL> create table audit table (roll no int ,name varchar(50),
date of issue date ,name of book varchar(50) ,status varchar(10),
operation varchar(10));
Table created.
SQL> insert into library table values (1 , 'JOHN' , '22-jul-2023' ,
'DBMS' , 'Issued');
1 row created.
SQL> insert into library table values (2 , 'ZEUS' , '19-aug-2023' , 'IOT'
, 'Issued');
1 row created.
SQL> insert into library table values (3 , 'PETER' , '07-may-2023' ,
'TOC' , 'Issued');
1 row created.
SQL> insert into library table values (4 , 'ROBERT' , '19-mar-2023' ,
'SPOS' , 'Issued');
1 row created.
SQL> insert into library table values (5 , 'BEN' , '01-feb-2023' , 'CNS'
, 'Issued');
```

1 row created.

```
DATE OF_I
 ROLL NO NAME
NAME OF BOOK
                                     STATUS
1 JOHN
                                              22-JUL-23
                                     Issued
     2 ZEUS
                                              19-AUG-23
IOT
                                      Issued
                                              07-MAY-23
     3 PETER
TOC
                                     Issued
 ROLL NO NAME
                                             DATE OF_I
______
NAME OF BOOK
                                     STATUS
4 ROBERT
                                              19-MAR-23
SPOS
                                     Issued
     5 BEN
                                             01-FEB-23
CNS
                                     Issued
SQL> CREATE OR REPLACE TRIGGER after row level
2 AFTER UPDATE OR DELETE
3 ON library table
4 FOR EACH ROW
5 BEGIN
6 IF updating THEN
7 INSERT INTO audit table VALUES(:old.roll no, :old.name,
:old.date of issue, :old.name of book, :old.status, 'update');
8 ELSIF deleting THEN
9 INSERT INTO audit table VALUES(:old.roll no, :old.name,
:old.date_of_issue, :old.name_of_book, :old.status, 'delete');
10 END IF;
11 END;
12 /
Trigger created.
SQL> update library_table set name_of_book='DBMS' where roll_no=4;
1 row updated.
SQL> select * from library table;
 ROLL NO NAME
                                             DATE OF I
_____
NAME_OF_BOOK
                                     STATUS
                                              22-JUL-23
      1 JOHN
DBMS
                                     Issued
     2 ZEUS
                                              19-AUG-23
TOI
                                     Issued
```

TOC	3 PETER	Issued	07-MAY-23
ROLL_I	NO NAME		DATE_OF_I
NAME_OF_BOOK		STATUS	
DBMS	4 ROBERT	Issued	19-MAR-23
CNS	5 BEN	Issued	01-FEB-23
SQL> delete from library_table where roll_no=4;			
1 row deleted.			
<pre>SQL> select * from library_table;</pre>			
ROLL_I	NO NAME		DATE_OF_I
NAME_OF_BOOK STATUS		STATUS	
DBMS	1 JOHN	Issued	22-JUL-23
IOT	2 ZEUS	Issued	19-AUG-23
TOC	3 PETER	Issued	07-MAY-23
ROLL_I	NO NAME		DATE_OF_I

NAME_OF_BOOK STATUS

5 BEN

-01-FEB-23 Issued