Write a database trigger on Library table. The System should keep track of the records that are being updated or deleted. The old value of updated or deleted records should be added in Library\_Audit table.

**PL/SQL Block: -**

CREATE TABLE lib\_tab(book\_name VARCHAR2(25),status VARCHAR2(15));

CREATE TABLE library\_audit(date\_modified DATE, book\_name VARCHAR2(25),old\_status VARCHAR(15),new\_status VARCHAR2(15),action VARCHAR2(25));

INSERT INTO lib\_tab VALUES('TOC','AVAILABLE');

INSERT INTO lib\_tab VALUES('DSA','UNAVAILABLE');

INSERT INTO lib\_tab VALUES('CNS','AVAILABLE');

INSERT INTO lib\_tab VALUES('SPOS','UNAVAILABLE');

INSERT INTO lib\_tab VALUES('IOT\_ES','AVAILABLE');

CREATE OR REPLACE TRIGGER trigger\_1

AFTER UPDATE OR DELETE OR INSERT ON lib\_tab FOR EACH ROW

ENABLE

BEGIN

IF UPDATING THEN

dbms\_output.put\_line(:OLD.status);

INSERT INTO library\_audit VALUES (SYSDATE,:OLD.book\_name,:OLD.status,:NEW.status,'UPDATE');

ELSIF INSERTING THEN

dbms\_output.put\_line(:NEW.status);

INSERT INTO library\_audit VALUES (SYSDATE,:NEW.book\_name,:OLD.status,:NEW.status,'INSERT');

ELSE

dbms\_output.put\_line(:OLD.book\_name||'deleting');

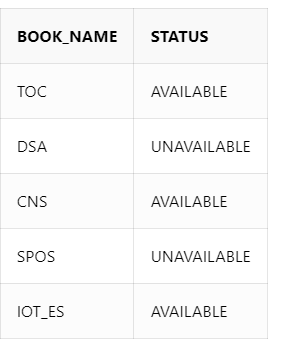
INSERT INTO library\_audit VALUES(SYSDATE,:OLD.book\_name,:OLD.status,:NEW.status,'DELETE');

END IF;

END;

/

SELECT \* FROM lib\_tab;



DELETE FROM lib\_tab WHERE book\_name = 'CNS';

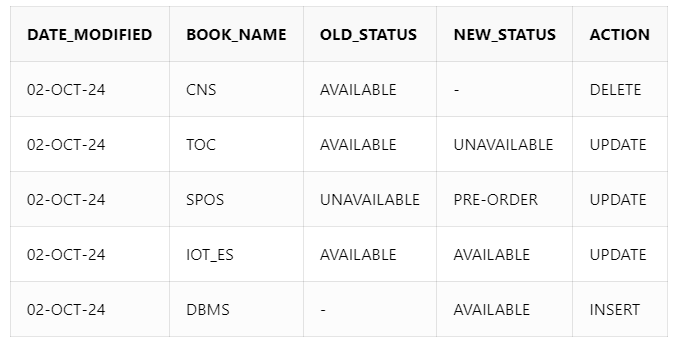
UPDATE lib\_tab SET status = 'UNAVAILABLE' WHERE book\_name = 'TOC';

UPDATE lib\_tab SET status = 'PRE-ORDER' WHERE book\_name = 'SPOS';

UPDATE lib\_tab SET status = 'AVAILABLE' WHERE book\_name = 'IOT\_ES';

INSERT INTO lib\_tab VALUES('DBMS','AVAILABLE');

SELECT \* FROM library\_audit;



SELECT \* FROM lib\_tab;

