CREATE DATABASE Assignment7;

USE Assignment7;

CREATE TABLE library (

rollnum INT,

name VARCHAR(100),

issuedate DATE,

bookname VARCHAR(100)

);

CREATE TABLE library\_audit (

rollnum INT,

name VARCHAR(100),

issuedate DATE,

bookname VARCHAR(100),

operationTime TIMESTAMP

);

INSERT INTO library VALUES

(1, 'Aditi', '2021-08-15', 'JAVA'),

(2, 'Aditya', '2021-08-01', 'DBMS'),

(3, 'Anurag', '2021-08-31', 'TOC'),

(4, 'Asim', '2021-09-10', 'CNS'),

(5, 'Aryan', '2021-09-04', 'DS'),

(6, 'Aneesh', '2021-08-20', 'HCI'),

(7, 'Abhishek', '2021-08-13', 'PYTHON');

DELIMITER //

CREATE TRIGGER after\_update

AFTER UPDATE ON library

FOR EACH ROW

BEGIN

INSERT INTO library\_audit

VALUES (OLD.rollnum, OLD.name, OLD.issuedate, OLD.bookname, NOW());

END //

CREATE TRIGGER before\_update

BEFORE UPDATE ON library

FOR EACH ROW

BEGIN

INSERT INTO library\_audit

VALUES (OLD.rollnum, OLD.name, OLD.issuedate, OLD.bookname, NOW());

END //

DELIMITER ;

UPDATE library SET issuedate = CURRENT\_DATE(), bookname = 'C++' WHERE rollnum = 1;

DELIMITER //

CREATE TRIGGER after\_delete

AFTER DELETE ON library

FOR EACH ROW

BEGIN

INSERT INTO library\_audit

VALUES (OLD.rollnum, OLD.name, OLD.issuedate, OLD.bookname, NOW());

END //

CREATE TRIGGER before\_delete

BEFORE DELETE ON library

FOR EACH ROW

BEGIN

INSERT INTO library\_audit

VALUES (OLD.rollnum, OLD.name, OLD.issuedate, OLD.bookname, NOW());

END //

DELIMITER ;

DELETE FROM library WHERE rollnum = 7;

SELECT \* FROM library;

SELECT \* FROM library\_audit;