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Practical 7
Database Trigger (All Types: Row level and Statement level triggers, Before
and After
Triggers).
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.
Note: Instructor will Frame the problem statement for writing PL/SQL block
for all types of
Triggers in line with above statement.
Step 1:
CREATE TABLE Library (
    book id INT PRIMARY KEY,
    book title VARCHAR(255),
    author VARCHAR(255),
    publication year INT,
    genre VARCHAR(100),
    availability status VARCHAR(50)
);
CREATE TABLE Library_Audit (
    audit id INT AUTO INCREMENT PRIMARY KEY,
    action type VARCHAR(10), -- 'DELETE'
    book id INT,
    book title VARCHAR(255),
    author VARCHAR(255),
    publication year INT,
    genre VARCHAR(100),
    availability status VARCHAR(50),
    action time TIMESTAMP DEFAULT CURRENT TIMESTAMP
);
Step 2:
DELIMITER $$
CREATE TRIGGER trg after delete library
AFTER DELETE ON Library
FOR EACH ROW
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INSERT INTO Library Audit (action type, book id, book title, author,

BEGIN

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publication_year, genre, availability_status)
    VALUES ('DELETE', OLD.book_id, OLD.book_title, OLD.author,
OLD.publication_year, OLD.genre, OLD.availability_status);
END$$

DELIMITER;

Step 3:
INSERT INTO Library (book_id, book_title, author, publication_year, genre, availability_status)
VALUES (1, 'Harry Potter', 'J.K. Rowling', 1997, 'Fantasy', 'Available');
Step 4:
DELETE FROM Library WHERE book_id = 1;
Step 5:
SELECT * FROM Library_Audit;
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