-- Create Library table

CREATE TABLE Library (

book\_id INT PRIMARY KEY,

book\_name VARCHAR(100),

author\_name VARCHAR(100),

genre VARCHAR(50),

published\_year INT

);

-- Create Library\_Audit table to track updates and deletions

CREATE TABLE Library\_Audit (

audit\_id INT AUTO\_INCREMENT PRIMARY KEY,

book\_id INT,

book\_name VARCHAR(100),

author\_name VARCHAR(100),

genre VARCHAR(50),

published\_year INT,

operation\_type VARCHAR(10), -- To track whether it's an 'UPDATE' or 'DELETE'

change\_time TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

-- Trigger to capture old values before updating the Library table

CREATE TRIGGER before\_library\_update

BEFORE UPDATE ON Library

FOR EACH ROW

BEGIN

INSERT INTO Library\_Audit (book\_id, book\_name, author\_name, genre, published\_year, operation\_type)

VALUES (OLD.book\_id, OLD.book\_name, OLD.author\_name, OLD.genre, OLD.published\_year, 'UPDATE');

END;

-- Trigger to capture old values before deleting from the Library table

CREATE TRIGGER before\_library\_delete

BEFORE DELETE ON Library

FOR EACH ROW

BEGIN

INSERT INTO Library\_Audit (book\_id, book\_name, author\_name, genre, published\_year, operation\_type)

VALUES (OLD.book\_id, OLD.book\_name, OLD.author\_name, OLD.genre, OLD.published\_year, 'DELETE');

END;