BOOKS AUD:

```
CREATE TABLE BOOKS_AUD (
             EVENT_ID INT(11) NOT NULL AUTO_INCREMENT,
             EVENT_DATE DATETIME NOT NULL,
             EVENT_TYPE VARCHAR(10) DEFAULT NULL,
             BOOK_ID INT(11) NOT NULL,
             OLD_BOOK_ID INT(11),
             TITLE VARCHAR(255),
             PUBYEAR INT(11),
             PRIMARY KEY (EVENT_ID)
);
DELIMITER $$
CREATE TRIGGER BOOKS INSERT AFTER INSERT ON BOOKS
  FOR EACH ROW
BEGIN
 INSERT INTO BOOKS_AUD (EVENT_DATE, EVENT_TYPE, BOOK_ID, TITLE,
             PUBYEAR)
    VALUE(CURTIME(), "INSERT", NEW.BOOK_ID, NEW.TITLE, NEW.PUBYEAR);
END $$
DELIMITER;
DELIMITER $$
CREATE TRIGGER BOOKS_DELETE AFTER DELETE ON BOOKS
  FOR EACH ROW
BEGIN
  INSERT INTO BOOKS_AUD (EVENT_DATE, EVENT_TYPE, BOOK_ID)
    VALUE(CURTIME(), "DELETE", OLD.BOOK_ID);
END $$
DELIMITER;
```

DELETE FROM BOOKS WHERE BOOK_ID = 23;

DELIMITER \$\$

```
CREATE TRIGGER BOOKS_UPDATE AFTER UPDATE ON BOOKS
FOR EACH ROW

BEGIN
INSERT INTO BOOKS_AUD (EVENT_DATE, EVENT_TYPE, BOOK_ID,
OLD_BOOK_ID)
VALUE(CURTIME(), "UPDATE", NEW.BOOK_ID, OLD.BOOK_ID);
END $$

DELIMITER;

UPDATE BOOKS SET BOOK_ID = 22 WHERE BOOK_ID = 66;
```

READER AUD:

```
CREATE TABLE READERS_AUD (

EVENT_ID INT(11) NOT NULL AUTO_INCREMENT,
EVENT_DATE DATETIME NOT NULL,
EVENT_TYPE VARCHAR(10) DEFAULT NULL,
READER_ID INT(11) NOT NULL,
OLD_READER_ID INT(11),
NEW_FIRSTNAME VARCHAR(255),
OLD_FIRSTNAME VARCHAR(255),
NEW_LASTNAME VARCHAR(255),
OLD_LASTNAME VARCHAR(255),
NEW_PESELID VARCHAR(255),
OLD_PESELID VARCHAR(255),
PRIMARY KEY (EVENT_ID)
);
```

DELIMITER \$\$

```
CREATE TRIGGER READER_INSERT AFTER INSERT ON READERS
FOR EACH ROW

BEGIN
INSERT INTO READERS_AUD (EVENT_DATE, EVENT_TYPE, READER_ID,
NEW_FIRSTNAME,
NEW_LASTNAME, NEW_PESELID)
```

```
VALUE(CURTIME(), "INSERT", NEW.READER_ID, NEW.FIRSTNAME,
NEW.LASTNAME, NEW_PESELID);
END $$
DELIMITER;
```

INSERT INTO READERS (FIRSTNAME, LASTNAME, PESELID) VALUES ('Mike', 'Bike', '99012217938');

DELIMITER \$\$

CREATE TRIGGER READER_DELETE AFTER DELETE ON READERS
FOR EACH ROW
BEGIN
INSERT INTO READERS_AUD (EVENT_DATE, EVENT_TYPE, READER_ID)
VALUE(CURTIME(), "DELETE", OLD.READER_ID);
END \$\$

DELETE FROM READERS WHERE READER_ID = 6;

DELIMITER \$\$

DELIMITER;

CREATE TRIGGER READER_UPDATE AFTER UPDATE ON READERS FOR EACH ROW

BEGIN

INSERT INTO READERS_AUD (EVENT_DATE, EVENT_TYPE,
READER_ID,NEW_FIRSTNAME, NEW_LASTNAME, NEW_PESELID,
OLD_FIRSTNAME, OLD_LASTNAME, OLD_PESELID)
 VALUE(CURTIME(), "UPDATE", NEW.READER_ID, NEW.FIRSTNAME,
NEW.LASTNAME, NEW.PESELID ,OLD.FIRSTNAME, OLD.LASTNAME,
OLD.PESELID);
END \$\$

DELIMITER;

UPDATE READERS SET FIRSTNAME = 'Sam' WHERE FIRSTNAME = 'Mike';