CREATE TRIGGER before\_library\_insert BEFORE INSERT ON library

FOR EACH ROW

BEGIN

declare newbookname varchar(100);

SET newbookname = NEW.bookname;

if exists (select \* from library where bookname=newbookname) then

insert into library\_audit values (newbookname,"before\_library\_insert. A book with the same name already existed.");

else

insert into library\_audit values (newbookname,"before\_library\_insert. New book inserted!");

end if;

END;

//

CREATE TRIGGER after\_library\_insert AFTER INSERT ON library

FOR EACH ROW

BEGIN

declare newbookname varchar(100);

SET newbookname = NEW.bookname;

declare bookcount INT;

SET bookcount = (select COUNT(\*) from library where bookname=newbookname);

declare logstmt varchar(100);

SET logstmt = "after\_library\_insert. No. of books with this name: ";

declare countstr varchar(100);

SET countstr = select CAST(bookcount AS varchar(100));

declare finallog varchar(200);

SET finallog = SELECT CONCAT(logstmt,countstr);

insert into library\_audit values (newbookname,finallog);

END;

//

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'declare bookcount INT;

SET bookcount = (select COUNT(\*) from library where bookn' at line 6

mysql>

CREATE TRIGGER before\_library\_update BEFORE UPDATE ON library

FOR EACH ROW

BEGIN

if OLD.issuer=null then

insert into library\_audit values(OLD.bookname,"This book is being issued");

elseif NEW.issuer=null then

insert into library\_audit values(OLD.bookname,"This book is being returned");

else

insert into library\_audit values(OLD.bookname,"This book is being reissued");

end if;

END;

//

Query OK, 0 rows affected (0.45 sec)

CREATE TRIGGER after\_library\_update AFTER UPDATE ON library

FOR EACH ROW

BEGIN

if OLD.issuer=null then

insert into library\_audit values(OLD.bookname,"This book will be unavailable until returned");

elseif NEW.issuer=null then

insert into library\_audit values(OLD.bookname,"This book is now available");

else

insert into library\_audit values(OLD.bookname,"This book will be unavailable until returned");

end if;

END;

//

Query OK, 0 rows affected (0.50 sec)

CREATE TRIGGER before\_library\_delete BEFORE DELETE ON library

FOR EACH ROW

BEGIN

if OLD.issuer=null then

insert into library\_audit values(OLD.bookname,"This book was given back by the library itself");

else

insert into library\_audit values(OLD.bookname,"This book was either damaged by the issuer or never returned");

end if;

END;

//

Query OK, 0 rows affected (0.42 sec)

CREATE TRIGGER after\_library\_delete AFTER DELETE ON library

FOR EACH ROW

BEGIN

insert into library\_audit values(OLD.bookname,"This book was removed from the library database.");

END;

//

Query OK, 0 rows affected (0.54 sec)