create table library(

book\_no int,

name varchar(50),

author varchar(50),

publication varchar(50),

year int

);

create table library\_audit(

book\_no int,

name varchar(50),

author varchar(50),

publication varchar(50),

year int

);

create or replace trigger tgr1

before Insert or Update of year on library

for each row

begin

if(:new.year < 2005) then

raise\_application\_error(-20000

, 'Error..! Inserted or updated publication year should be 2005 or later.');

end if;

end;

begin

insert into library values(15762 , 'How to defeat Usain Bolt', 'Himanshu Shekhar Padhi' , 'Padhi Publications' , 2005);

insert into library values(75943 , 'Be the one world has never seen' , 'Pranvi Gupta' , 'Gupta Publications' , 2007);

insert into library values(17569 , 'The DumbBell Boy' , 'Ajay Kahlan' , 'Kahlan Publications' , 2010);

insert into library values(78610 , 'Just do it' , 'Pawan Dixit' , 'Dixit Publications' , 20015);

insert into library values(17648 , 'Whats wrong with me' , 'Navjeet Singh Shekhawat' , 'Shekhawat Publications' , 2018);

insert into library values(17862 , 'How to defeat defeat', 'Korth' , 'Korth Publications' , 2014);

insert into library values(75365 , 'Angel in the sky', 'Korth' , 'Dharma Productions' , 2013);

end;

create or replace package pkgRowCount is

cnt number;

procedure INIT\_ROWCOUNT;

procedure ADD\_ONE;

function GET\_ROWCOUNT

return number;

end pkgRowCount;

create or replace package body pkgRowCount as

procedure INIT\_ROWCOUNT is

begin

cnt := 0;

end;

procedure ADD\_ONE is

begin

cnt := cnt + 1;

end;

function GET\_ROWCOUNT

return number is

begin

return cnt;

end;

end pkgRowCount;

create or replace trigger tgr2\_1

before update

on library

begin

pkgRowCount.INIT\_ROWCOUNT;

end;

create or replace trigger tgr2\_2

after update

on library

for each row

begin

pkgRowCount.ADD\_ONE;

end;

create or replace trigger tgr2\_2

after update

on library

for each row

begin

pkgRowCount.ADD\_ONE;

end;

create or replace trigger tgr2\_3

after update

on library

begin

dbms\_output.put\_line(pkgRowCount.GET\_ROWCOUNT || ' rows were affected.');

end;

create or replace trigger tgr3

before update

on library

for each row

begin

insert into library\_audit values(:old.book\_no , :old.name , :old.author , :old.publication , :old.year);

end;

create or replace trigger tgr4

after delete

on library

for each row

begin

insert into library\_audit values(:old.book\_no , :old.name , :old.author , :old.publication , :old.year);

end;

update library set publication = 'Pearson Education' where author = 'Korth';

delete from library where author = 'Himanshu Shekhar Padhi';