```
SQL> CREATE OR REPLACE TRIGGER emp1
2 AFTER INSERT OR UPDATE OR DELETE ON employee7
3 FOR EACH ROW
4 DECLARE
5 BEGIN
6 IF INSERTING THEN
7 INSERT INTO nemployee7 VALUES (:new.id, :new.name, :new.sal);
8 ELSIF UPDATING THEN
9 INSERT INTO cemployee7 VALUES (:new.id, :new.name, :new.sal);
11 ELSIF DELETING THEN
11 INSERT INTO xemployee7 VALUES (:old.id, :old.name, :old.sal);
12 END IF;
13 END;
                                                                                                                                         BOOKNAME
                                                                                                                                         hello
Life
Hollow
                                                                                                                                         car
Rings
                                                                                                                                            2
3
4
5
6
7
Trigger created.
 SOL> INSERT INTO EMPLOYEE7 VALUES(102, 'Jesto', 300000);
 SQL> select * from xemployee7;
 SQL> select * from nemployee7;
 SQL>
SQL> update employee7 set sal=100000 where id=102;
 1 row updated.
 SQL> select * from cemployee7;
          ID NAME
                                                        SAL
          102 Jesto
                                                   100000
 SQL> delete from employee7 where id=102;
 1 row deleted.
  SQL> select * from xemployee7;
                                                                                                                                          Trigger created.
           ID NAME
                                                      SAL
                                                                                                                                          SQL> DECLARE
           182 Jesto
                                                  100000
                                                                                                                                               return_date DATE;
BEGIN
                                                                                                                                                   tein
return_date := issue_book('Life',1);
_DBMS_OUTPUT.PUT_LINE('Return_date: ' || return_date);
 SQL> create or replace trigger tr_restrict
                                                                                                                                         Return date: 11-MAR-23
       before
delete or insert or update on employee711
                                                                                                                                         PL/SQL procedure successfully completed.
      begin if(rtrim(to_char(sysdate,'DAY')) in ('saturday', 'sunday')) or (to_char(sysdate, 'hh24:mi') not between '08:30' and '18:30') then dbms_output_line('table unaccessible'); end if.
                                                                                                                                                   101 hello
102 Life
Trigger created.
SQL> INSERT INTO EMPLOYEE711 VALUES(103,'Abey',300000); table unaccessible
                                                                                                                                                    104 Rings
                                                                                                                                                    185 Hollow
SQL> CREATE OR REPLACE PROCEDURE addBook( bname IN varchar2, aut IN varchar2, tot IN number)
                                                                                                                                         SQL> select * from Bookrec;
  2 IS
3 BEGIN
4
5 INSE
                                                                                                                                          BOOKNAME
         INSERT INTO Bookrec VALUES(bname.aut.tot.tot):
                                                                                                                                          hello
     END;
/
                                                                                                                                          Hollow
                                                                                                                                          Rings
Procedure created.
SQL> CREATE OR REPLACE TRIGGER BOOKIN
2 AFTER INSERT ON Bookrec
3 FOR EACH ROW
  2
3
4
5
6
7
8
9
                                                                                                                                                    182
       DECL ARE
           ID NUMBER;
        BEGIN
SELECT BookID INTO ID FROM BookDetails1 WHERE ROWNUM=1 ORDER BY BookID DESC;
IF ID is NULL THEN
ID:=100;
       ELSE
          ID:=ID+1;
        END IF;
         INSERT INTO BookDetails1 VALUES(ID,:new.BookName,0);
Trigger created.
SOL> select * from BookDetails1:
     BOOKID BOOKNAME
          101 hello
102 Life
          103 car
104 Rings
SQL> select * from Bookrec;
                               AUTHOR
                                                             TOTAL COPIES AVAILABLE COPIES
BOOKNAME
hello
Life
                              Peter
Dennu
                               Denny
Will
Rings
SQL> begin
2 addBook('Hollow','Robert',50);
  2 addl
3 end;
4 /
PL/SQL procedure successfully completed.
Commit complete.
SOL> select * from BookDetails1:
                                                  MEMBERID
     BOOKID BOOKNAME
          101 hello
102 Life
103 car
104 Rings
105 Hollow
SQL> select * from Bookrec;
```

SOL> select \* from Bookrec: AUTHOR TOTALCOPIES AVAILABLECOPIES Peter 120 118 Denny Robert Will Sarah 100 SQL> CREATE OR REPLACE FUNCTION issue\_book (book\_name IN VARCHAR2, member\_id IN NUMBER)
2 RETURN DATE RETURN 1\_return\_date; ELSE raise\_appLication\_error(-20001, 'Book not available'); SQL> CREATE OR REPLACE TRIGGER updateavailable\_copies
2 AFTER update ON BookDetails1
3 FOR EACH ROW
4 BEGIN
5 UPDATE bookrec
6 SET availablecopies = availablecopies - 1
7 WHERE bookname = :NEW.bookname;
8 END update\_available\_copies;
9 /

SQL> SQL> select \* from BookDetails1; BOOKID BOOKNAME

```
AUTHOR
                                          TOTALCOPIES AVAILABLECOPIES
                     Peter
                                                                    118
                     Will
SQL> select * from CirculationRec;
```

```
BOOKID MEMBERID ISSUEDATE RETURNDAT
               1 09-FEB-23 11-MAR-23
```