NAME: ANSHUL AHER
BATCH: P
ROLL NO: 10
PRN NO: F21113010
ASSIGNMENT NO: A-04,05
ASSIGNMENT TITLE: Unnamed PL/SQLcode block: Use of Control structure and Exception handling is mandatory.

SQL*Plus: Release 19.0.0.0.0 - Production on Wed Nov 1 20:06:52 2023
Version 19.3.0.0.0

Enter user-name: sys as sysdba
Enter password:

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

```
SQL> CREATE TABLE  borrower(roll_no NUMBER , name VARCHAR2(25), dateofissue DATE,name_of
_book VARCHAR2(25), status VARCHAR2(20));

Table created.

SQL> CREATE TABLE fine(roll_no NUMBER,date_of_return DATE,amt NUMBER);

Table created.

SQL> INSERT INTO borrower VALUES(10,'PRANESH',TO_DATE('11-08-2022','DD-MM-YYYY'),'HARR
Y POTTER','I');

1 row created.

SQL> INSERT INTO borrower VALUES(12,'ROHAN',TO_DATE('1-07-2022','DD-MM-YYYY'),'YOUR FAU
LT','I')
  2  ;

1 row created.

SQL> INSERT INTO borrower VALUES(13,'CHARLIE',TO_DATE('26-09-2022','DD-MM-YYYY'),'GOD O
F WAR','I');

1 row created.

SQL> INSERT INTO borrower VALUES(14,'ASHUTOSH',TO_DATE('10-07-2022','DD-MM-YYYY'),'SPID
ER-MAN','I');

1 row created.

SQL> INSERT INTO borrower VALUES(11,'BRAVO',TO_DATE('19-08-2022','DD-MM-YYYY'),'MY FAUL
T','I');
```

```
1 row created.

SQL> select * from borrower;

   ROLL_NO NAME                      DATEOFISS NAME_OF_BOOK
---------- ------------------------- --------- -------------------------
STATUS
--------------------
        10 PRANESH                   11-AUG-22 HARRY POTTER
I

        12 ROHAN                     01-JUL-22 YOUR FAULT
I

        13 CHARLIE                   26-SEP-22 GOD OF WAR
I


   ROLL_NO NAME                      DATEOFISS NAME_OF_BOOK
---------- ------------------------- --------- -------------------------
STATUS
--------------------
        14 ASHUTOSH                  10-JUL-22 SPIDER-MAN
I

        11 BRAVO                     19-AUG-22 MY FAULT
I

SQL> DECLARE
  2     i_roll_no NUMBER;
  3     name_of_book VARCHAR2(25);
  4     no_of_days NUMBER;
  5     return_date DATE := TO_DATE(SYSDATE,'DD-MM-YYYY');
  6     temp NUMBER;
  7     doi DATE;
  8     fine NUMBER;
  9  BEGIN
 10     i_roll_no := 10;
 11     name_of_book := 'HARRY POTTER';
 12     --dbms_output.put_line(return_date);
 13     SELECT to_date(borrower.dateofissue,'DD-MM-YYYY') INTO doi FROM borrower WHERE borrow
er.roll_no = i_roll_no AND borrower.name_of_book = name_of_book;
 14     no_of_days := return_date-doi;
 15     dbms_output.put_line(no_of_days);
 16     IF (no_of_days >15 AND no_of_days <=30) THEN
 17             fine := 5*no_of_days;
 18
 19     ELSIF (no_of_days>30 ) THEN
 20             temp := no_of_days-30;
 21             fine := 75 + temp*50;
 22     END IF;
 23     dbms_output.put_line(fine);
 24     INSERT INTO fine VALUES(i_roll_no,return_date,fine);
 25     UPDATE borrower SET status = 'RETURNED' WHERE borrower.roll_no = i_roll_no;
 26
```

```
 27
 28  END;
 29  /

PL/SQL procedure successfully completed.

SQL> DECLARE
  2     i_roll_no NUMBER;
  3     name_of_book VARCHAR2(25);
  4     no_of_days NUMBER;
  5     return_date DATE := TO_DATE(SYSDATE,'DD-MM-YYYY');
  6     temp NUMBER;
  7     doi DATE;
  8     fine NUMBER;
  9  BEGIN
 10     i_roll_no := 11;
 11     name_of_book := 'MY FAULT';
 12     --dbms_output.put_line(return_date);
 13     SELECT to_date(borrower.dateofissue,'DD-MM-YYYY') INTO doi FROM borrower WHERE borrow
er.roll_no = i_roll_no AND borrower.name_of_book = name_of_book;
 14     no_of_days := return_date-doi;
 15     dbms_output.put_line(no_of_days);
 16     IF (no_of_days >15 AND no_of_days <=30) THEN
 17             fine := 5*no_of_days;
 18
 19     ELSIF (no_of_days>30 ) THEN
 20             temp := no_of_days-30;
 21             fine := 75 + temp*50;
 22     END IF;
 23     dbms_output.put_line(fine);
 24     INSERT INTO fine VALUES(i_roll_no,return_date,fine);
 25     UPDATE borrower SET status = 'RETURNED' WHERE borrower.roll_no = i_roll_no;
 26
 27
 28  END;
 29  /

PL/SQL procedure successfully completed.

SQL> DECLARE
  2     i_roll_no NUMBER;
  3     name_of_book VARCHAR2(25);
  4     no_of_days NUMBER;
  5     return_date DATE := TO_DATE(SYSDATE,'DD-MM-YYYY');
  6     temp NUMBER;
  7     doi DATE;
  8     fine NUMBER;
  9  BEGIN
 10     i_roll_no := 12;
 11     name_of_book := 'YOUR FAULT';
 12     --dbms_output.put_line(return_date);
 13     SELECT to_date(borrower.dateofissue,'DD-MM-YYYY') INTO doi FROM borrower WHERE borrow
er.roll_no = i_roll_no AND borrower.name_of_book = name_of_book;
 14     no_of_days := return_date-doi;
 15     dbms_output.put_line(no_of_days);
```

```
 16    IF (no_of_days >15 AND no_of_days <=30) THEN
 17          fine := 5*no_of_days;
 18
 19    ELSIF (no_of_days>30 ) THEN
 20          temp := no_of_days-30;
 21          fine := 75 + temp*50;
 22    END IF;
 23    dbms_output.put_line(fine);
 24    INSERT INTO fine VALUES(i_roll_no,return_date,fine);
 25    UPDATE borrower SET status = 'RETURNED' WHERE borrower.roll_no = i_roll_no;
 26
 27
 28  END;
 29  /

PL/SQL procedure successfully completed.

SQL> DECLARE
  2    i_roll_no NUMBER;
  3    name_of_book VARCHAR2(25);
  4    no_of_days NUMBER;
  5    return_date DATE := TO_DATE(SYSDATE,'DD-MM-YYYY');
  6    temp NUMBER;
  7    doi DATE;
  8    fine NUMBER;
  9  BEGIN
 10     i_roll_no := 13;
 11     name_of_book := 'GOD OF WAR';
 12     --dbms_output.put_line(return_date);
 13     SELECT to_date(borrower.dateofissue,'DD-MM-YYYY') INTO doi FROM borrower WHERE borrow
er.roll_no = i_roll_no AND borrower.name_of_book = name_of_book;
 14     no_of_days := return_date-doi;
 15     dbms_output.put_line(no_of_days);
 16     IF (no_of_days >15 AND no_of_days <=30) THEN
 17          fine := 5*no_of_days;
 18
 19     ELSIF (no_of_days>30 ) THEN
 20          temp := no_of_days-30;
 21          fine := 75 + temp*50;
 22     END IF;
 23     dbms_output.put_line(fine);
 24     INSERT INTO fine VALUES(i_roll_no,return_date,fine);
 25     UPDATE borrower SET status = 'RETURNED' WHERE borrower.roll_no = i_roll_no;
 26
 27
 28   END;
 29   /

PL/SQL procedure successfully completed.

SQL> DECLARE
  2    i_roll_no NUMBER;
  3    name_of_book VARCHAR2(25);
  4    no_of_days NUMBER;
  5    return_date DATE := TO_DATE(SYSDATE,'DD-MM-YYYY');
```

```
  6     temp NUMBER;
  7     doi DATE;
  8     fine NUMBER;
  9  BEGIN
 10     i_roll_no := 14;
 11     name_of_book := 'SPIDER-MAN';
 12     --dbms_output.put_line(return_date);
 13     SELECT to_date(borrower.dateofissue,'DD-MM-YYYY') INTO doi FROM borrower WHERE borrow
er.roll_no = i_roll_no AND borrower.name_of_book = name_of_book;
 14     no_of_days := return_date-doi;
 15     dbms_output.put_line(no_of_days);
 16     IF (no_of_days >15 AND no_of_days <=30) THEN
 17             fine := 5*no_of_days;
 18
 19     ELSIF (no_of_days>30 ) THEN
 20             temp := no_of_days-30;
 21             fine := 75 + temp*50;
 22     END IF;
 23     dbms_output.put_line(fine);
 24     INSERT INTO fine VALUES(i_roll_no,return_date,fine);
 25     UPDATE borrower SET status = 'RETURNED' WHERE borrower.roll_no = i_roll_no;
 26
 27
 28  END;
 29  /

PL/SQL procedure successfully completed.

SQL> select * from fine;

   ROLL_NO DATE_OF_R        AMT
---------- --------- ----------
        10 01-NOV-23      20925
        11 01-NOV-23      20525
        12 01-NOV-23      22975
        13 01-NOV-23      18625
        14 01-NOV-23      22525
```