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

Copyright (c) 1982, 2019, Oracle. All rights reserved.

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
L
    12 ROHAN
                       01-JUL-22 YOUR FAULT
ı
                       26-SEP-22 GOD OF WAR
    13 CHARLIE
ı
 ROLL_NO NAME DATEOFISS NAME_OF_BOOK
STATUS
   14 ASHUTOSH 10-JUL-22 SPIDER-MAN
11 BRAVO 19-AUG-22 MY FAULT
ı
SQL> DECLARE
 2 i_roll_no NUMBER;
   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;
   name_of_book := 'HARRY POTTER';
11
   --dbms_output.put_line(return_date);
12
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;
    no of days := return date-doi;
14
15
    dbms_output.put_line(no_of_days);
    IF (no of days >15 AND no of days <=30) THEN
16
17
        fine := 5*no_of_days;
18
    ELSIF (no_of_days>30 ) THEN
19
20
        temp := no_of_days-30;
21
        fine := 75 + \text{temp}*50;
    END IF;
22
    dbms_output.put_line(fine);
23
```

INSERT INTO fine VALUES(i_roll_no,return_date,fine);

UPDATE borrower SET status = 'RETURNED' WHERE borrower.roll_no = i_roll_no;

24

25 26

```
27
28 END;
29 /
PL/SQL procedure successfully completed.
SQL> DECLARE
    i roll no NUMBER;
 2
 3
    name_of_book VARCHAR2(25);
 4
    no of days NUMBER;
 5
    return date DATE := TO DATE(SYSDATE, 'DD-MM-YYYY');
    temp NUMBER:
 6
 7
    doi DATE:
    fine NUMBER;
 8
 9 BEGIN
10
    i_roll_no := 11;
     name of book := 'MY FAULT':
11
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;
     no of days := return date-doi;
14
     dbms_output.put_line(no_of_days);
15
     IF (no of days >15 AND no of days <=30) THEN
16
17
          fine := 5*no_of_days;
18
19
     ELSIF (no_of_days>30 ) THEN
20
          temp := no_of_days-30;
          fine := 75 + \text{temp*}50;
21
     END IF:
22
23
     dbms_output.put_line(fine);
     INSERT INTO fine VALUES(i_roll_no,return_date,fine);
24
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
    i_roll_no := 12;
10
11
     name of book := 'YOUR FAULT';
     --dbms output.put line(return date);
12
     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);
```

```
IF (no of days >15 AND no of days <=30) THEN
16
17
          fine := 5*no_of_days;
18
19
     ELSIF (no_of_days>30) THEN
20
          temp := no of days-30;
21
          fine := 75 + \text{temp}*50;
22
     END IF:
23
     dbms_output.put_line(fine);
     INSERT INTO fine VALUES(i_roll_no,return_date,fine);
24
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:
     name of book VARCHAR2(25);
 3
     no of days NUMBER;
 4
 5
     return_date DATE := TO_DATE(SYSDATE,'DD-MM-YYYY');
 6
     temp NUMBER:
 7
     doi DATE:
     fine NUMBER:
 8
 9 BEGIN
10
    i_roll_no := 13;
     name of book := 'GOD OF WAR';
11
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
     ELSIF (no of days>30) THEN
19
20
          temp := no of days-30;
21
          fine := 75 + \text{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
    i_roll_no NUMBER;
 2
 3
     name of book VARCHAR2(25);
 4
     no of days NUMBER;
 5
     return_date DATE := TO_DATE(SYSDATE,'DD-MM-YYYY');
```

```
6
     temp NUMBER;
     doi DATE;
 7
 8
     fine NUMBER;
 9 BEGIN
10
     i roll no := 14;
     name of book := 'SPIDER-MAN';
11
12
     --dbms_output.put_line(return_date);
     SELECT to_date(borrower.dateofissue,'DD-MM-YYYY') INTO doi FROM borrower WHERE borrow
13
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);
     IF (no_of_days >15 AND no_of_days <=30) THEN
16
17
          fine := 5*no of days;
18
19
     ELSIF (no of days>30) THEN
20
          temp := no of days-30;
21
          fine := 75 + \text{temp*}50:
     END IF;
22
23
     dbms output.put line(fine);
     INSERT INTO fine VALUES(i_roll_no,return_date,fine);
24
     UPDATE borrower SET status = 'RETURNED' WHERE borrower.roll no = i roll no;
25
26
27
28 END;
29 /
```

PL/SQL procedure successfully completed.

SQL> select * from fine:

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