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| **ASSIGNMENT NAME** : Unnamed PL/SQL code block: Use of Control structure and Exception handling is mandatory. Suggested Problem statement: Consider Tables: 1. Borrower(Roll\_no, Name, DateofIssue, NameofBook, Status) 2. Fine(Roll\_no,Date,Amt) • Accept Roll\_no and NameofBook from user. • Check the number of days (from date of issue). • If days are between 15 to 30 then fine amount will be Rs 5per day. • If no. of days>30, per day fine will be Rs 50 per day and for days less than 30, Rs. 5 per day. • After submitting the book, status will change from I to R. • If condition of fine is true, then details will be stored into fine table. • Also handles the exception by named exception handler or user define exception handler. |

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| **Student Name : Bisu Prem Kashinath** |
| **Roll\_No : 13116** |
| **Class : TE-A** |

Microsoft Windows [Version 10.0.19045.4651]

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C:\Users\CNLAB05>sqlplus

SQL\*Plus: Release 21.0.0.0.0 - Production on Fri Aug 9 14:42:33 2024

Version 21.3.0.0.0

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Enter user-name: SYSTEM

Enter password:

Last Successful login time: Fri Aug 09 2024 14:35:05 +05:30

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> SET SERVEROUT ON

SQL> SET VERIFY OFF

SQL> DROP TABLE BORROWER;

Table dropped.

SQL> DROP TABLE FINE;

Table dropped.

SQL> CREATE TABLE borrower(roll\_no NUMBER , name VARCHAR2(10), dateofissue DATE,name\_of\_book VARCHAR2(20), status VARCHAR2(10));

Table created.

SQL> CREATE TABLE fine(roll\_no NUMBER,date\_of\_return DATE,amt NUMBER);

Table created.

SQL> INSERT INTO borrower VALUES(45,'ASHUTOSH',TO\_DATE('01-08-2022','DD-MM-YYYY'),'HARRY POTTER','PENDING');

1 row created.

SQL> INSERT INTO borrower VALUES(46,'ARYAN',TO\_DATE('15-08-2022','DD-MM-YYYY'),'DARK MATTER','PENDING');

1 row created.

SQL> INSERT INTO borrower VALUES(47,'ROHAN',TO\_DATE('24-08-2022','DD-MM-YYYY'),'SILENT HILL','PENDING');

1 row created.

SQL> INSERT INTO borrower VALUES(48,'SANKET',TO\_DATE('26-08-2022','DD-MM-YYYY'),'GOD OF WAR','PENDING');

1 row created.

SQL> INSERT INTO borrower VALUES(49,'SARTHAK',TO\_DATE('09-09-2022','DD-MM-YYYY'),'SPIDER-MAN','PENDING');

1 row created.

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 := &i\_roll\_no;

11 name\_of\_book := '&nameofbook';

12 --dbms\_output.put\_line(return\_date);

13 SELECT to\_date(borrower.dateofissue,'DD-MM-YYYY') INTO doi FROM borrower WHERE borrower.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 := 150 + 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 /

Enter value for i\_roll\_no: 46

Enter value for nameofbook: DARK MATTER

725

34900

PL/SQL procedure successfully completed.

SQL> SELECT \* FROM BORROWER;

ROLL\_NO NAME DATEOFISS NAME\_OF\_BOOK STATUS

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45 ASHUTOSH 01-AUG-22 HARRY POTTER PENDING

46 ARYAN 15-AUG-22 DARK MATTER RETURNED

47 ROHAN 24-AUG-22 SILENT HILL PENDING

48 SANKET 26-AUG-22 GOD OF WAR PENDING

49 SARTHAK 09-SEP-22 SPIDER-MAN PENDING

SQL> SELECT \* FROM FINE;

ROLL\_NO DATE\_OF\_R AMT

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46 09-AUG-24 34900

SQL>