DBMS A4

INPUT :

CREATE TABLE Borrower (

Rollno INT,

Name VARCHAR2(50),

DateofIssue DATE,

NameofBook VARCHAR2(50),

Status VARCHAR2(50)

);

INSERT INTO Borrower (Rollno, Name, DateofIssue, NameofBook, Status)

VALUES (14, 'Ram', DATE '2024-06-01', 'Operating System', 'I');

CREATE TABLE Fine (

Rollno INT,

Date\_of\_return DATE,

Amount INT

);

CREATE OR REPLACE PROCEDURE calc\_Fine (

r IN INT,

b IN VARCHAR2

) AS

doi DATE;

diff INT;

BEGIN

SELECT DateofIssue INTO doi

FROM Borrower

WHERE Rollno = r AND NameofBook = b;

diff := TRUNC(SYSDATE) - doi;

IF diff >= 15 AND diff <= 30 THEN

INSERT INTO Fine (Rollno, Date\_of\_return, Amount)

VALUES (r, SYSDATE, diff \* 5);

ELSIF diff > 30 THEN

INSERT INTO Fine (Rollno, Date\_of\_return, Amount)

VALUES (r, SYSDATE, (diff - 30) \* 50 + 75);

END IF;

END;

/

CREATE OR REPLACE PROCEDURE submit (

r IN INT

) AS

BEGIN

UPDATE Borrower

SET Status = 'R'

WHERE Rollno = r;

DELETE FROM Fine

WHERE Rollno = r;

END;

/

BEGIN

calc\_Fine(14, 'Operating System');

END;

/

SELECT \* FROM Fine;

BEGIN

submit(14);

END;

/

SELECT \* FROM Borrower;

OUTPUT :

Table created.

1 row(s) inserted.

Table created.

Procedure created.

Procedure created.

Statement processed.

## Result Set 1

|  |  |  |
| --- | --- | --- |
| ROLLNO | DATE\_OF\_RETURN | AMOUNT |
| 14 | 07-OCT-24 | 4975 |

## Result Set 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ROLLNO | NAME | DATEOFISSUE | NAMEOFBOOK | STATUS |
| 14 | Ram | 01-JUN-24 | Operating System | R |