DECLARE

v\_roll\_no NUMBER;

v\_book\_name VARCHAR2(100);

v\_issue\_date DATE;

v\_return\_date DATE DEFAULT SYSDATE;

v\_days\_overdue NUMBER;

v\_fine\_amount NUMBER;

BEGIN

-- Get input from user

v\_roll\_no := &roll\_no;

v\_book\_name := &book\_name;

-- Get issue date from Borrower table

SELECT DateOfIssue INTO v\_issue\_date

FROM Borrower

WHERE Roll\_no = v\_roll\_no AND NameofBook = v\_book\_name;

-- Calculate overdue days

v\_days\_overdue := v\_return\_date - v\_issue\_date;

-- Calculate fine amount

IF v\_days\_overdue BETWEEN 15 AND 30 THEN

v\_fine\_amount := v\_days\_overdue \* 5;

ELSIF v\_days\_overdue > 30 THEN

v\_fine\_amount := v\_days\_overdue \* 50;

ELSE

v\_fine\_amount := 0;

END IF;

-- Update Borrower status

UPDATE Borrower

SET Status = 'R'

WHERE Roll\_no = v\_roll\_no AND NameofBook = v\_book\_name;

-- Insert fine details into Fine table

IF v\_fine\_amount > 0 THEN

INSERT INTO Fine (Roll\_no, Date, Amt)

VALUES (v\_roll\_no, SYSDATE, v\_fine\_amount);

END IF;

-- Exception handling

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

RAISE\_APPLICATION\_ERROR(-20001, 'Book not found for the given Roll No and Name of Book');

WHEN OTHERS THEN

RAISE\_APPLICATION\_ERROR(-20002, 'An error occurred: ' || SQLERRM);

END;

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