

## Assignment – 4

**Name: Omkar Hulawale**

**Roll no: 13165**

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.

SET SERVEROUT ON

SET VERIFY OFF

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CREATE TABLE borrower(roll_no NUMBER , name VARCHAR2(25), dateofissue DATE,name_of_book VARCHAR2(25), status VARCHAR2(20));
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CREATE TABLE fine(roll_no NUMBER,date_of_return DATE,amt NUMBER);
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```
INSERT INTO borrower VALUES(45,'ASHUTOSH',TO_DATE('01-08-2023','DD-MM-YYYY'),'HARRY POTTER','ISSUED');
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```
INSERT INTO borrower VALUES(46,'ARYAN',TO_DATE('15-08-2023','DD-MM-YYYY'),'DARK MATTER','ISSUED');
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```
INSERT INTO borrower VALUES(47,'ROHAN',TO_DATE('24-08-2023','DD-MM-YYYY'),'SILENT HILL','ISSUED');
```

```
INSERT INTO borrower VALUES(48,'SANKET',TO_DATE('26-08-2023','DD-MM-YYYY'),'GOD OF WAR','ISSUED');
```

```
INSERT INTO borrower VALUES(49,'SARTHAK',TO_DATE('09-09-2023','DD-MM-YYYY'),'SPIDER- MAN','ISSUED');
```

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DECLARE

    i\_roll\_no NUMBER;

    name\_of\_book VARCHAR2(25);

    no\_of\_days NUMBER;

    return\_date DATE := TO\_DATE(SYSDATE,'DD-MM-YYYY');

    temp NUMBER;

```

        doi DATE;

        fine NUMBER;

BEGIN

    i_roll_no := &i_roll_no;

    name_of_book := '&nameofbook';

    --dbms_output.put_line(return_date);

    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;

    no_of_days := return_date-doi;

    dbms_output.put_line(no_of_days);

    IF (no_of_days >15 AND no_of_days <=30) THEN

        fine := 5*no_of_days;

    ELSIF (no_of_days>30 ) THEN

        temp := no_of_days-30;

        fine := 150 + temp*50;

    END IF;

    dbms_output.put_line(fine);

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

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

END;

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-----INPUT-----
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Enter value for i\_roll\_no: 46

Enter value for nameofbook: DARK MATTER

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-----OUTPUT-----
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BORROWER:

ROLL_NO	NAME	DATEOFISSUE	NAME_OF_BOOK	STATUS
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45	ASHUTOSH	01-08-22	HARRY POTTER	ISSUED
46	ARYAN	15-08-22	DARK MATTER	RETURNED
47	ROHAN	24-08-22	SILENT HILL	ISSUED
48	SANKET	26-08-22	GOD OF WAR	ISSUED
49	SARTHAK	09-09-22	SPIDER-MAN	ISSUED

FINE:

ROLL_NO	DATEOFRE	AMOUNT
46	14-09-22	150

INPUT

Enter value for i\_roll\_no: 45  
 Enter value for nameofbook: HARRY POTTER

OUTPUT

BORROWER:

ROLL_NO	NAME	DATEOFIS	NAME_OF_BOOK	STATUS
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45 ASHUTOSH	01-08-22	HARRY POTTER	RETURNED
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46 ARYAN	15-08-22	DARK MATTER	RETURNED
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47 ROHAN	24-08-22	SILENT HILL	ISSUED
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48 SANKET	26-08-22	GOD OF WAR	ISSUED
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49 SARTHAK	09-09-22	SPIDER-MAN	ISSUED
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FINE:

ROLL_NO	DATEOFRE	AMOUNT
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46	14-09-22	150
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45	14-09-22	850
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