

Group A  
Assignment Number 4  
PL/SQL

**Problem Statement:**

Unnamed PL/SQL code block: Use of Control structure and Exception handling is mandatory.

Schema:

1. Borrower(Roll\_no, Name, DateofIssue, NameofBook, Status)
2. Fine(Roll no,Date, Amt) Accept roll no & name of book from user.

Check the number of days (from date of issue), if days are between 15 to 30 then fine amount will be Rs 5 per day.

If no. of days > 30, per day fine will be Rs 50 per day & 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.

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**PROGRAM INPUT**

---

```
CREATE TABLE BORROWER
(
roll no NUMBER,
name VARCHAR2(25),
dateofissue DATE,
name_of_book VARCHAR2(25),
status VARCHAR2(20)
);
```

```
CREATE TABLE FINE
(
Roll_no NUMBER,
date_of_return DATE,
amt NUMBER
);
```

```
INSERT INTO borrower VALUES (54, 'SUDARSHAN', TO_DATE('01-10-2022', 'DD-MM-YYYY'),
'HARRY POTTER','I');
```

```
INSERT INTO borrower VALUES(56,'SUMIT', TO_DATE('15-10-2022','DD-MM-YYYY'),
'DARK MATTER','I');
```

```
INSERT INTO borrower VALUES(68, 'MANDAR', TO_DATE('24-09-2022','DD-MM- YYYY'),
'SILENT HILL','I');
```

```
INSERT INTO borrower VALUES(66, 'SIDDHAM", TO_DATE(26-08-2022','DD-MM- YYYY'),
'GOD OF WAR','I');
```

```
INSERT INTO borrower VALUES(50,'SHREYAS',TO_DATE(09-09-2022','DD-MM-YYYY'),
'SPIDER-MAN','I');
```

select *from borrower				
Results Explain Describe Saved SQL History				
ROLL_NO	NAME	DATEOFISSUE	NAME_OF_BOOK	STATUS
54	SUDARSHAN	10/01/2022	HARRY POTTER	I
56	SUMIT	10/15/2022	DARK MATTER	I
68	MANDAR	09/24/2022	SILENT HILL	I
66	SOHAM	08/26/2022	GOD OF WAR	I
50	SHREYAS	09/09/2022	SPIDER-MAN	I

5 rows returned in 0.02 seconds [Download](#)

DECLARE

```

i_roll_no NUMBER: 54;
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 = 'R'
WHERE borrower.roll_no=i_roll_no;

```

END;

FINE TABLE AFTER SUBMITTING :

Autocommit

Rows

10

Save

Run

select \* from fine

Results

Explain

Describe

Saved SQL

History

ROLL_NO	DATE_OF_RETURN	AMT
54	10/18/2023	30984.7887731481481481481481481482
54	10/18/2023	30984.7893518518518518518518518519

2 rows returned in 0.00 seconds

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BORROWER TABLE AFTER SUBMITTING :

Autocommit	ROWS	10	Save	Run
select * from borrower				
Results Explain Describe Saved SQL History				
ROLL_NO	NAME	DATEOFISSUE	NAME_OF_BOOK	STATUS
54	SUDARSHAN	10/01/2022	HARRY POTTER	R
56	SUMIT	10/15/2022	DARK MATTER	I
68	MANDAR	09/24/2022	SILENT HILL	I
66	SOHAM	08/26/2022	GOD OF WAR	I
50	SHREYAS	09/09/2022	SPIDER-MAN	R
5 rows returned in 0.00 seconds <a href="#">Download</a>				