

**Name:- Yash Dhumal**

**Roll no. :-13373**

## **PRACTICAL NO. 4-5**

Microsoft Windows [Version 10.0.19045.3570]

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C:\Users\Yash Dhumal\Desktop\dbms lab>sqlplus

SQL\*Plus: Release 21.0.0.0.0 - Production on Fri Oct 27 22:03:58 2023

Version 21.3.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Fri Oct 27 2023 20:47:10 +05:30

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> create table areas(radius int, area int);

Table created.

SQL> DECLARE

2 v\_radius NUMBER := 5;

3 v\_area NUMBER;

4 BEGIN

5 -- Loop through radii from 5 to 9

6 FOR i IN 5..9 LOOP

7 v\_area := 3.14159 \* (v\_radius \* v\_radius);

8 INSERT INTO areas (radius, area) VALUES (v\_radius, v\_area);

9 v\_radius := v\_radius + 1;

10 END LOOP;

11

12 COMMIT;

13 END;

14 /

PL/SQL procedure successfully completed.

SQL> select \* from areas;

RADIUS	AREA
5	79
6	113
7	154
8	201
9	254

```
SQL> create table borrower(roll_no int, name varchar(25),dateofissue date, name_of_book
varchar(25), status varchar(20));
```

Table created.

```
SQL> create table fine(roll_no int, date_of_return date,amt int);
```

Table created.

```
SQL> INSERT INTO borrower VALUES(45,'MAYURESH',TO_DATE('01-08-2023','DD-MM-
YYYY'),'HARRY POTTER','PENDING');
```

1 row created.

```
SQL> INSERT INTO borrower VALUES(46,'YASH',TO_DATE('15-08-2023','DD-MM-
YYYY'),'DARK MATTER','PENDING');
```

1 row created.

```
SQL> INSERT INTO borrower VALUES(47,'SAMARTH',TO_DATE('24-08-2023','DD-MM-
YYYY'),'SILENT HILL','PENDING');
```

1 row created.

```
SQL> INSERT INTO borrower VALUES(48,'PRASAD',TO_DATE('26-08-2023','DD-MM-
YYYY'),'GOD OF WAR','PENDING');
```

1 row created.

```
SQL> INSERT INTO borrower VALUES(49,'SIDDHU',TO_DATE('09-09-2023','DD-MM-
YYYY'),'SPIDERMAN','PENDING');
```

1 row created.

```
SQL> set serveroutput on;
```

```
SQL> 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;
/

```

Enter value for i\_roll\_no: 46 old

10: i\_roll\_no := &i\_roll\_no; new

10: i\_roll\_no := 46;

Enter value for nameofbook: DARK MATTER

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

11: name\_of\_book := 'DARK MATTER';

72

2250

PL/SQL procedure successfully completed.

SQL> select \* from borrower;

ROLL_NO	NAME	DATEOFISS	NAME_OF_BOOK	STATUS
-----				

-----  
45 MAYURESH                      01-AUG-23 HARRY POTTER  
PENDING

46 YASH                      15-AUG-23 DARK MATTER  
RETURNED

47 SAMARTH                      24-AUG-23 SILENT HILL  
PENDING

ROLL\_NO NAME                      DATEOFISS NAME\_OF\_BOOK  
-----  
STATUS

-----  
48 PRASAD                      26-AUG-23 GOD OF WAR  
PENDING

49 SIDDHU                      09-SEP-23 SPIDER-MAN  
PENDING

SQL> select \* from fine;

ROLL\_NO DATE\_OF\_R              AMT  
-----  
46 26-OCT-23              2250