**PL/SQL**

**15.**

1. **Write an SQL code block** these raise a user defined exception where business rule is voilated. BR for client\_ master table specifies when the value of bal\_due field is less than 0 handle the exception.

SQL> create table client\_master(

id number(2) not null primary key,

bal\_due number(10,2)

);

SQL> insert into client\_master (id,bal\_due) values (1,500);

SQL> insert into client\_master (id,bal\_due) values (2,700);

SQL> insert into client\_master (id,bal\_due) values (3,-300);

SQL> insert into client\_master (id,bal\_due) values (4,-400);

SQL> insert into client\_master (id,bal\_due) values (5,800);

SQL> select \* from client\_master;

SQL> edit

Wrote file afiedt.buf

1 declare

2 c\_id client\_master.id%type := &c\_id;

3 c\_baldue client\_master.bal\_due%type;

4 balance\_exception exception;

5 begin

6 select bal\_due into c\_baldue from client\_master where id = c\_id;

7 if c\_baldue<0 then

8 raise balance\_exception;

9 else

10 dbms\_output.put\_line('Your balance due is: '||c\_baldue);

11 end if;

12 exception

13 when balance\_exception then

14 dbms\_output.put\_line('Your balance due is in negative: '||c\_baldue);

15\* end;

SQL> /

Enter value for c\_id: 2

old 2: c\_id client\_master.id%type := &c\_id;

new 2: c\_id client\_master.id%type := 2;

Your balance due is: 700

SQL> /

Enter value for c\_id: 3

old 2: c\_id client\_master.id%type := &c\_id;

new 2: c\_id client\_master.id%type := 3;

Your balance due is in negative: -300

PL/SQL procedure successfully completed.

1. **Write an SQL code block**

Borrow(Roll\_no, Name, DateofIssue, NameofBook, Status)

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 5per 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. Also handles the exception by named exception handler or user define exception handler.