DBMS Lab TEST

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Github Link

Questions

Duration: 1 hr F.M:20

EACH QUESTION CARRIES 5 MARKS

 Create following tables with specified records STUDENT

ROLLNO (Primary key)	SNAME	MARKS
SO1	Praadip	75
SO2	Aastik	82
SO3	Tushar	63
SO4	Arpan	79
SO5	Anumita	66

BOOK

BID	BNAME	AUTHOR	ROLLNO (foreign key)
13	С	BGSwamy	SO2
12	DS	RBPatel	SO5
11	DS	ASBaluja	SO3

STATE_NAME

CCITY	STATE
Mysore	Karnataka
Kolkota	West Bengal
Pune	Maharashtra
Chennai	Tamilnadu
Indore	Madhya pradesh

- 2. Write a query to display the SNAME of the student who got more marks than 'Arpan'.
- 3. Write a query display the BID & AUTHOR name of for the book DS.
- 4. WAPLSQL Program to display product of 2 numbers without multiplication.

Solution

```
-- Q1

create table student(

rollno varchar(10) primary key,

sname VARCHAR(15),
```

```
marks number
);
create table book(
 bid varchar(10),
 bname VARCHAR(15),
 author VARCHAR(15),
 rollno varchar(10)
);
alter table book add foreign key(rollno) REFERENCES student(rollno);
create table state_name(
 ccity VARCHAR(20),
 state VARCHAR(20)
);
insert into student values('SO1', 'Praadip', 75);
insert into student values('SO2', 'Aastik', 82);
insert into student values('SO3', 'Tushar', 63);
insert into student values('SO4', 'Arpan', 79);
insert into student values('SO5', 'Anumita', 66);
insert into book values('I3', 'C', 'BGSwamy', 'SO2');
insert into book values('I2', 'DS', 'RBPatel', 'SO5');
insert into book values('I1', 'DS', 'ASBaluja', 'SO3');
insert into state_name values('Mysore', 'Karnataka');
insert into state_name values('Kolkata', 'West Bengal');
insert into state_name values('Pune', 'Maharashtra');
insert into state_name values('Chennai', 'Tamilnadu');
insert into state_name values('Indore', 'Madhya pradesh');
select sname from student where marks > (
 select marks from student where sname='Arpan'
);
select bid, author from book where bname='DS';
set SERVEROUTPUT on;
DECLARE
 m number;
 n number;
 iter number;
BEGIN
 m := &m;
 n := &n;
```

```
iter := m;
LOOP
    exit when n <= 1;
    m := m + iter;
    n := n-1;
    end Loop;
    DBMS_OUTPUT.PUT_LINE('Product-> '||m);
END;
/
```

Output 1

```
key( SQL> select * from book;
    BID BNAME AUTHOR
                                           ROLLNO
          С
                         BGSwamy SO2
RBPatel SO5
    I3
    12
             DS
                            ASBaluja SO3
    I1
           DS
    SQL> select * from student;
01'
    ROLLNO SNAME
                          MARKS
02'
03<sup>1</sup>, s01
           Praadip
Aastik
                                    75
04
    S02
                                    82
    S03
            Tushar
Arpan
                                    63
051
    S04
                                    79
    S05
             Anumita
                                    66
 SQL> select * from state_name;
 'DS CCITY
                       STATE
 'DS -----
                Karnataka
West Bengal
Maharashtra
Tamilnadu
Madhya pradesh
    Mysore
    Kolkata
('M) Pune
('Kc Chennai
('Pl Indore
('Ch sQL>
('Ir
```

Output 2

Output 3

Output 4

```
SQL> set SERVEROUTPUT on;
          SQL> DECLARE
            2
                 m number;
            3
                 n number;
            4
                 iter number;
book wher
            5
               BEGIN
            6
                 m := &m;
            7
                 n := &n;
            8
                 iter := m;
            9
                 L00P
           10
                   exit when n \leq 1;
           11
                   m := m + iter;
           12
                   n := n-1;
           13
                 end loop;
                 DBMS_OUTPUT.PUT_LINE('Product→ '||m);
           14
           15 END;
           16 /
          Enter value for m: 5
          old
                6:
                     m := &m;
          new
                6:
                     m := 5;
          Enter value for n: 5
          old
                7:
                     n := &n;
          new
                7:
                    n := 5;
          Product→ 25
          PL/SQL procedure successfully completed.
Product→
          SQL>
```

----END----