**Hospital Information System**

SQL> create table patient(pno number(10),pname varchar(15),paddr varchar(15),

primary key(pno));

SQL> create table ward(wno number(5),primary key(wno));

SQL> create table doctor(dname varchar(15),dspl varchar(15),primary key(dname));

SQL> create table patward(pno number(10),wno number(5),foreign key(pno) references patient(pno),foreign key(wno) references ward(wno),primary key(pno,wno));

SQL> create table patdoctor(pno number(10),dname varchar(15),foreign key(pno) references patient(pno),foreign key(dname) references doctor(dname),primary key(pno,dname));

SQL> insert into patient values(&pno,'&pname','&paddr');

Enter value for pno: 101

Enter value for pname: Jack

Enter value for paddr: Mumbai

old 1: insert into patient values(&pno,'&pname','&paddr')

new 1: insert into patient values(101,'Jack','Mumbai')

1 row created.

SQL> /

Enter value for pno: 102

Enter value for pname: Jane

Enter value for paddr: Chennai

old 1: insert into patient values(&pno,'&pname','&paddr')

new 1: insert into patient values(102,'Jane','Chennai')

1 row created.

SQL> select \* from patient;

PNO PNAME PADDR

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101 Jack Mumbai

102 Jane Chennai

103 Mary Bengaluru

104 Jim Cochin

105 Robert Jaipur

SQL> insert into ward values(1);

1 row created.

SQL> insert into ward values(2);

1 row created.

SQL> insert into ward values(3);

1 row created.

SQL> select \* from ward;

WNO

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1

2

3

SQL> insert into doctor values('&dname','&dspl');

Enter value for dname: David

Enter value for dspl: Neurology

old 1: insert into doctor values('&dname','&dspl')

new 1: insert into doctor values('David','Neurology')

1 row created.

SQL> /

Enter value for dname: William

Enter value for dspl: Cardiology

old 1: insert into doctor values('&dname','&dspl')

new 1: insert into doctor values('William','Cardiology')

1 row created.

SQL> select \* from doctor;

DNAME DSPL

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David Neurology

William Cardiology

Smith Nephrology

Mark ENT

John Dental

SQL> insert into patward values(&pno,&wno);

Enter value for pno: 101

Enter value for wno: 3

old 1: insert into patward values(&pno,&wno)

new 1: insert into patward values(101,3)

1 row created.

SQL> /

Enter value for pno: 101

Enter value for wno: 2

old 1: insert into patward values(&pno,&wno)

new 1: insert into patward values(101,2)

1 row created.

SQL> select \* from patward;

PNO WNO

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101 3

101 2

102 3

103 1

104 1

104 2

6 rows selected.

SQL> insert into patdoctor values(&pno,'&dname');

Enter value for pno: 101

Enter value for dname: David

old 1: insert into patdoctor values(&pno,'&dname')

new 1: insert into patdoctor values(101,'David')

1 row created.

SQL> /

Enter value for pno: 102

Enter value for dname: Mark

old 1: insert into patdoctor values(&pno,'&dname')

new 1: insert into patdoctor values(102,'Mark')

1 row created.

SQL> select \* from patdoctor;

PNO DNAME

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101 David

102 Mark

102 John

104 William

**Write a Query to find number of patients in each ward**

SQL Query:

SQL> select pw.wno,count(\*)as patients from patward pw

group by pw.wno;

WNO PATIENTS

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1 2

2 2

3 2

PL/SQL Query

SQL> set serveroutput on;

SQL> declare

2 cursor cr\_pw is select pw.wno as ward,count(\*) as patients from patward pw

group by pw.wno;

3 v\_pw cr\_pw%rowtype;

4 begin

5 dbms\_output.put\_line('Ward Count');

6 open cr\_pw;

7 loop

8 fetch cr\_pw into v\_pw;

9 exit when cr\_pw%notfound;

10 dbms\_output.put\_line(v\_pw.ward||' '||v\_pw.patients);

11 end loop;

12 end;

13 /

Ward Count

1 2

2 2

3 2

PL/SQL procedure successfully completed.