Ex-2

Q1.

create table ownersss(owner\_name varchar(40) primary key, address varchar(50), phone\_no int);

Table created.

create table propertyss(p\_number int primary key,

description varchar(50) not null,

area char(10),

owner\_name varchar(40), foreign key(owner\_name)

references ownersss);

SQL> create table patient(p\_no int primary key,

2 name varchar(50) not null,

3 address varchar(50));

Table created.

QL> create table bed(bed\_no int primary key,

2 room\_no int,

3 description varchar(50),

4 p\_no int ,foreign key(p\_no) references patient);

Table created.

Set a page 77=

SQL> create table owner(owner\_name varchar(50) primary key,

2 address varchar(50),

3 phone\_no int);

SQL> create table property(pnnumber int primary key,

2 description varchar(50) not null,

3 area char(10),

4 owner\_name varchar(50), foreign key(owner\_name) references owner);

SQL> create table hospital(h\_no int primary key,

2 name varchar(80) not null,

3 city char(30));

SQL> desc owner;

Name Null? Type

----------------------------------------- -------- ----------------------------

OWNER\_NAME NOT NULL VARCHAR2(50)

ADDRESS VARCHAR2(50)

PH\_NUMBER NUMBER(38)

SQL> insert into owner values('omkar\_paygude','warje',2445);

1 row created.

s

SQL> select \* from owner;

OWNER\_NAME

--------------------------------------------------

ADDRESS PH\_NUMBER

-------------------------------------------------- ----------

omkar\_paygude

warje 2445

SQL> desc bed;

Name Null? Type

----------------------------------------- -------- ----------------------------

BED\_NO NOT NULL NUMBER(38)

ROOM\_NO NUMBER(38)

DESCRIPTION VARCHAR2(80)

SQL> insert into bed values(1,201,'good\_night');

SQL> desc patient;

Name Null? Type

----------------------------------------- -------- ----------------------------

PNO NOT NULL NUMBER(38)

NAME NOT NULL VARCHAR2(70)

ADDRESS VARCHAR2(80)

SQL> insert into patient values(321,'omkar\_paygude','kondhawe-dawade');

1 row created.

SQL> select \*from patient;

PNO

----------

NAME

----------------------------------------------------------------------

ADDRESS

--------------------------------------------------------------------------------

321

omkar\_paygude

kondhawe-dawade.

SQL> desc hospital;

Name Null? Type

----------------------------------------- -------- ----------------------------

H\_NO NOT NULL NUMBER(38)

NAME NOT NULL VARCHAR2(80)

CITY CHAR(30)

SQL> insert into hospital values(123,'omkar paygude','pune');

1 row created.

SQL> select \* from hospital;

H\_NO

----------

NAME

--------------------------------------------------------------------------------

CITY

------------------------------

123

omkar paygude

pune

SQL> desc doctor;

Name Null? Type

----------------------------------------- -------- ----------------------------

D\_NO NOT NULL NUMBER(38)

D\_NAME VARCHAR2(20)

CITY CHAR(30)

SQL> insert into doctor values(1223,'Dr.omkar paygude','pune');

1 row created.

SQL> select \* from doctor;

D\_NO D\_NAME CITY

---------- -------------------- ------------------------------

1223 Dr.omkar paygude pune

SQL> create table property(pn\_number int primary key,

2 description varchar(40) not null,

3 area char(20));

Table created.

SQL> insert into property values(9350208045,'good property','3km');

1 row created.

SQL> select \* from property;

PN\_NUMBER DESCRIPTION AREA

---------- ---------------------------------------- --------------------

9350208045 good property 3km

SQL> create table employee(e\_no int primary key,

2 e\_name varchar(80),

3 salary int,

4 date\_join int,

5 qualification varchar(80));

SQL> insert into employee values(01,'om',6000,2034-03-90,'mba pass');

1 row created.

SQL> insert into employee values(02,'om',10000,2034-03-90,'mba pass');

1 row created.

SQL> insert into employee values(03,'omkar',40000,2034-03-90,'mba pass');

1 row created.

SQL> insert into employee values(04,'ram',90000,2034-03-90,'mba pass');

1 row created.

SQL> insert into employee values(05,'ram',200000,2034-03-90,'mba pass');

1 row created.

SQL> select \* from employee;

SQL> update employee set salary=50000 where e\_no=01;

1 row updated.

SQL> delete from employee where e\_no=05;

1 row deleted.

SQL> update employee set qualification='mcs net' where e\_name='ram';

1 row updated.

SQL> update employee set salary=950000 where qualification='mcs net';

1 row updated.

SQL> create table hospital(h\_no int primary key,

2 h\_name varchar(80),

3 address char(80),

4 est\_year int,

5 speciality varchar(80));

Table created.

SQL> desc hospital;

Name Null? Type

----------------------------------------- -------- ----------------------------

H\_NO NOT NULL NUMBER(38)

H\_NAME VARCHAR2(80)

ADDRESS CHAR(80)

EST\_YEAR NUMBER(38)

SPECIALITY VARCHAR2(80)

SQL> insert into hospital values(01,'om\_hospital','pune',1990,'good');

1 row created.

SQL> insert into hospital values(02,'om\_hospital','pimple gurav',1995,'good');

1 row created.

SQL> insert into hospital values(03,'om\_hospital','pimple',2014,'good');

1 row created.

SQL> insert into hospital values(04,'om\_hospital','pune',2000,'good');

1 row created.

SQL> insert into hospital values(05,'om\_hospital','warje',2089,'good');

1 row created.

SQL> update hospital set address='mumbai' where h\_name='om\_hospital';

5 rows updated.

SQL> update hospital set speciality='multi' where est\_year>=1990 and est\_year<=2000;

SQL> create table dept(d\_no int primary key,

2 d\_name varchar (999),

3 location char(999));

Table created.

SQL> create table emp(e\_no int primary key,

2 e\_name varchar(999),

3 designation char(999),

4 salary int,

5 DOJ date,

6 d\_no int,foreign key(d\_no) references dept);

Table created.

SQL> desc dept;

Name Null? Type

----------------------------------------- -------- ----------------------------

D\_NO NOT NULL NUMBER(38)

D\_NAME VARCHAR2(999)

LOCATION CHAR(999)

SQL> desc emp;

Name Null? Type

----------------------------------------- -------- ----------------------------

E\_NO NOT NULL NUMBER(38)

E\_NAME VARCHAR2(999)

DESIGNATION CHAR(999)

SALARY NUMBER(38)

DOJ DATE

* D\_NO NUMBER

select \* from emp,dept where dept.d\_no=emp.d\_no and d\_name='quality';

SQL> select d\_name from hospital,doctor where hospital.h\_no=doctor.h\_no and h\_name='om\_hospital';

SQL> select \* from dept,emp where dept.d\_no=emp.d\_no and designation='manger';

SQL> select \* from dept,emp where dept.d\_no=emp.d\_no and location='baramati';

SQL> select \* from dept,emp where dept.d\_no=emp.d\_no and salary=5000;

SQL> desc hospital;

Name Null? Type

----------------------------------------- -------- ----------------------------

H\_NO NOT NULL NUMBER(38)

H\_NAME VARCHAR2(80)

ADDRESS CHAR(80)

EST\_YEAR NUMBER(38)

SPECIALITY VARCHAR2(80)

SQL> desc hospital;

Name Null? Type

----------------------------------------- -------- ----------------------------

H\_NO NOT NULL NUMBER(38)

H\_NAME VARCHAR2(80)

ADDRESS CHAR(80)

EST\_YEAR NUMBER(38)

SPECIALITY VARCHAR2(80)

SQL> insert into hospital values(01,'omkar','pimpri',2002,'good');

SQL> insert into doctor values(01,'omkar','pimpri',01);

SQL> select \* from hospital,doctor where hospital.h\_no=doctor.h\_no and city='pimpri';

SQL> insert into hospital values(07,'birla','chinchwad',2002,'good');

SQL> insert into doctor values(07,'omkar','chinchwad',07);

SQL> select \* from hospital,doctor where hospital.h\_no=doctor.h\_no and city='chinchwad';

SQL> select \* from doctor,hospital where doctor.h\_no=hospital.h\_no and address='birla' and city='chinchwad';

SQL> insert into hospital values(99,'shlok','pimple gurav',2002,'good');

SQL> insert into doctor values(99,'ruby','pune',99);

SQL> select \* from hospital,doctor where hospital.h\_no=doctor.h\_no and d\_name='ruby' and address='pimple gurav';

SQL> insert into hospital values(77,'sss','pune',2002,'medicine');

SQL> insert into doctor values(77,'omkarr','pune',77);

SQL> select d\_name from doctor,hospital where doctor.h\_no=hospital.h\_no and speciality='medicine';

SQL> create table patient(pcode int primary key,

2 pname varchar(999),

3 addr varchar(999),

4 disease varchar(999));

Table created.

SQL> desc table bed;

Usage: DESCRIBE [schema.]object[@db\_link]

SQL> create table bed(bedno int primary key,

2 roomno int,

3 location varchar(999));

Table created.

SQL> select pname from bed,patient where bed.pcode=patient.pcode and roomno=101;

SQL> select disease from bed,patient where bed.pcode=patient.pcode and bedno=1;

SQL> select roomno,bedno from bed,patient where bed.pcode=patient.pcode and pname='mr.ajay';

SQL> create table client(clientno int primary key,

2 clientname varchar(999),

3 addr varchar(999));

Table created.

SQL> create table sales\_order(ordno int primary key,

2 orddate date,

3 clientno int ,foreign key(clientno) references client);

Table created.

SQL> select \* from client,sales\_order;

SQL> update sales\_order set orddate=to\_date('18-03-2019','dd-mm-yyyy') where clientno=04;

SQL> delete from sales\_order where orddate<'10-feb-2019';

SQL> select \* from client,sales\_order where client.clientno=sales\_order.clientno order by orddate;

SQL> desc movie;

Name Null? Type

----------------------------------------- -------- ----------------------------

MOVIE\_NO NOT NULL NUMBER(38)

NAME VARCHAR2(40)

RELEASE\_YEAR NUMBER(38)

SQL> desc actor;

Name Null? Type

----------------------------------------- -------- ----------------------------

ACTOR\_ID NOT NULL NUMBER(38)

ACTOR\_NAME VARCHAR2(40)

BRITH\_DATE NUMBER(38)

SQL> create table movies\_actor(movie\_no int,foreign key(movie\_no) references movie,

2 actor\_id int,foreign key(actor\_id) references actor);

SQL> insert into actor values(01,'omkar',2002);

SQL> create table dept(dno int primary key,

2 name varchar(80),

3 loc varchar(90));

SQL> create table emp(eno int primary key,

2 e\_name varchar(90),

3 sal int,

4 address varchar(99),

5 ph\_no int,

6 dno int,foreign key(dno) references dept);

SQL> select \* from emp;

SQL> select eno, e\_name from emp;

SQL> select ph\_no dno from emp;

SQL> select \* from emp where dno=2;

SQL> select \* from emp where address = 'pune' and sal>50000;

SQL> select \* from emp where address = 'pune' and sal between 1000 and 10000000000;

SQL> select \* from emp where sal is null;

SQL> select \* from emp order by eno;

SQL> select \* from emp order by dno,eno desc;

SQL> select dno as dept , count(eno) as total\_emp from emp group by dno having count(eno)>01 order by dno;

SQL> select avg(sal) from emp;

SQL> select max(sal),dno from emp group by dno having max(sal)>1000;

SQL> select min(sal) from emp order by dno;

SQL> update emp set sal = sal + 0.5\*sal where dno = (select dno from dept where name ='finance');

SQL> update emp set dno = (select dno from dept where name = 'finance') where dno = (select dno from dept where name = 'ooo');

SQL> create table area(aname varchar(99) primary key,

2 area\_type varchar(99));

SQL> create table person(pnumber int primary key,

2 pname varchar(99),

3 brithdate int,

4 income int ,

5 aname varchar(99),foreign key(aname) references area);

SQL> select \* from person where aname='pune';

SQL> select \* from person where aname='pune';

SQL> select pname,brithdate from person where brithdate=2002;

SQL> select pname from person where brithdate = 2002;

SQL> select pname,income from person where income<1000000;

SQL> select pname,income from person where income between 10000 and 1000000;

SQL> select pname,avg(income)from person group by pname;

SQL> select aname,sum(income)from person group by aname;

SQL> select max(income),aname from person group by aname;

SQL> select aname,count(\*) from person group by aname;

SQL> select pname,income from person where aname='pune' and income>1000000;

SQL> select \* from person order by pnumber;

SQL> select \* from person order by aname,pname;

SQL> select min(income)from person;

SQL> update person set aname = 'mumbai' where aname='pune';

Many to many.

SQL> create table emp(e\_no int primary key,

2 name char(99),

3 d\_no int,

4 salary int);

SQL> create table project(p\_no int primary key,

2 p\_name varchar(99),

3 control\_d\_no int,

4 budget int);

SQL> create table emp\_project(p\_no int references project(p\_no),

2 e\_no int references emp(e\_no));

SQL> select control\_d\_no from project where budget>50000;

SQL> select p\_name from project where control\_d\_no='101' and budget>some(select budget from project where control\_d\_no='102');

SQL> select \* from project where budget=(select maximum from project where budget<(select max from project where budget<(select max from project)));

SQL> select \* from project where budget=(select maximum from project where budget<(select max from project where budget<(select max from project)));

SQL> select name from emp,emp\_project where emp.e\_no=emp\_project.e\_no and p\_no not in(select p\_no from project where e\_name =commerce);

SQL> select \* from project where p\_no in(select p\_no from emp\_project group by p\_no having count(e\_no)>=1);

SQL> select name from emp\_project,emp where emp.e\_no=emp\_project.e\_no and p\_no not in(select p\_no from project where d\_name='comp sci' and no\_hour>10);

SQL> select name from emp\_project,emp where emp.e\_no =emp\_project.e\_no and project.p\_no=emp\_project.p\_no and d\_no='commerce';

SQL> select \* from emp where city='pune';

SQL> Create table movies( m\_name varchar(99) primary key,

2 Release\_year int,

3 Budget int);

SQL> create table actors(a\_name varchar(99) primary key,

2 role varchar(99),

3 charges int,

4 a\_address varchar(99));

SQL> create table producer(producer\_id int primary key,

2 p\_name varchar(99),

3 address varchar(99));

SQL>create table movies\_actor\_producer(m\_name varchar(99) references movies,

A\_name varchar(99) references actor,

Producer\_id int references producer);

SQL> create table employee(emp\_no int primary key,

2 name varchar(99),

3 skill varchar(99),

4 pay\_rate int,

5 workdate int );

Table created.

SQL> create table positon(posting\_no int primary key,

2 skill varchar(99));

SQL> desc bill;

Name Null? Type

----------------------------------------- -------- ----------------------------

BILL\_NO NOT NULL NUMBER(38)

TABLE\_NO NUMBER(38)

DAY VARCHAR2(99)

TOTAL NUMBER(38)

SQL> desc menu;

Name Null? Type

----------------------------------------- -------- ----------------------------

DISH\_NO NOT NULL NUMBER(38)

DISH\_DESC VARCHAR2(99)

PRICE NUMBER(38)

SQL> desc bill\_menu;

Name Null? Type

----------------------------------------- -------- ----------------------------

BILL\_NO NUMBER(38)

DISH\_NO NUMBER(38)

SQL> create table sailor(sid int primary key,

2 sname varchar(99),

3 age int);

Table created.

SQL> create table boats(bid int primary key,

2 bname varchar(99),

3 color varchar(99))

4 ;

SQL> create table sailor\_boats(s\_id int,foreign key(s\_id) references sailor,

2 b\_id int,foreign key(b\_id) references boats);

SQL> declare

2 msg varchar2(30);

3 begin

4 msg := "hello world";

5 dbms\_output.put\_line(msg);

6 end;

7 /

Set serveroutput on

declare

i number:=1;

begin

loop

dbms\_output.put\_line(i);

i:=i+1;

if i>5 then

exit;

end if;

end loop;

end;

/

SQL> Set serveroutput on

SQL> create or replace function f1(fno in number)

2 return number;

3 as

4 begin

5 if(mod(fno,5):=0) then

6 return 0;

7 end if;

8 end f1;

9 end;

10 /

SQL> Set serveroutput on

SQL> create or replace function f1(a in number,b in number)

2 return number;

3 as

4 begin

5 return a+b;

6 end f1;

7 end;

8 /

SQL> Set serveroutput on

SQL> create or replace function produce

2 p1(dno in number)

3 max\_sal number;

4 begin

5 select max(sal) into max\_sal from emp where dept\_no=dno;

6 if(max\_sal>0) then

7 dbms\_output.put\_line("max sal"=||max\_sal);

8 else dbms\_output.put\_line("dept\_no doesn't exited");

9 end if;

10 end p1;

11 /

SQL> Set serveroutput on

SQL> create or replace function num(ab in number)

2 return number;

3 as

4 begin

5 if(ab > 0 && ab<10) then

6 dbms\_output.put\_line("the number is between 0 and 10");

7 else dbms\_output.put\_line("the number is not between 0 and 10");

8 end if;

9 end num;

10 /

SQL> Set serveroutput on

SQL> create or replace function largestnum(a in number,b in number)

2 return number;

3 as

4 begin

5 a:=&a;

6 b:=&b;

7 if(a>b) then

8 dbms \_output.put\_line('a is largest number');

9 else dbms\_output.put\_line('b is largest number');

10 end if;

11 end largestnum;

12 end

Largest number??????????????????????????????????????????///

SQL> Set serveroutput on

SQL> declare

2 a number;

3 b number;

4 begin

5 a:=&a;

6 b:=&b;

7 if(a>b) then

8 dbms\_output.put\_line('a is largest number');

9 else dbms\_output.put\_line('b is largest number');

10 end if;

11 end;

12 /

Even or odd number????????????????????????????/////

Set serveroutput on

create or replace function f2(a in number)

return number

as

begin

if (mod(a,2) = 0) then

dbms\_output.put\_line ('number is even');

else dbms\_output.put\_line ('number is odd');

end if;

end f2;

/

calling function:-

SQL> select f2(4) from dual;

SQL> Set serveroutput on

SQL> declare

2 a number:=&a;

3 b number:=&b;

4 c number;

5 begin

6 c:=a\*b;

7 dbms\_output.put\_line(c);

8 end;

9 /

create table policy\_info(policy\_no int primary key,

descr varchar(20),

maturity\_amt int,

check (maturity\_amt>0),

prem\_amt int,

check(prem\_amt>0),

pdate date);

create table clients(clients\_no int primary key,

clients\_name varchar(20),

address varchar(50),

birthdate date);

create table cli\_pol(clients\_no int references clients(clients\_no),

policy\_no int references policy\_info(policy\_no));

Q.write a function which will return total maturity amount of policies of a particular client./

set serveroutput on

create or replace function mat\_amt(cno int)return number is ans number;

begin

select sum(maturity amt) into ans from clients,policy\_info,cli\_pol where

clients.clients\_no=cli pol.clients\_no and policy\_info.policy\_no- cli\_pol.policy\_no and clients.clients\_no=-clients\_no;

return ans;

end;

/