## LAB-9

## **Problem Statements:**

- 1. Create following table Consider the following schema: Sailors (sid, sname, rating, age) Boats (bid, bname, color)Reserves (sid, bid, day(date))
- 2. Find all information of sailors who have reserved boat number 101.
- 3. Find the name of boat reserved by Bob.
- 4. Find the names of sailors who have reserved a red boat, and list in the order of age.
- 5. Find the names of sailors who have reserved at least one boat.
- 6. Find the ids and names of sailors who have reserved two different boats on the same day.
- 7. Find the ids of sailors who have reserved a red boat or a green boat.

1)

SQL> create table Sailors(sid number(6), sname varchar(20), rating number(2), age

number(3)); Table created.

SQL> create table Boats(bid number(6),bname varchar(20),color

varchar(20)); Table created.

SQL> create table Reserves(sid number(6),bid number(6),day

date); Table created.

SQL> desc Sailors;

Name Null? Type

\_\_\_\_\_\_

SID NUMBER(6)

SNAME VARCHAR2(20)

RATING NUMBER(2)

AGE NUMBER(3)

SQL> desc Boats;

Name Null? Type

-----

BID NUMBER(6)

BNAME VARCHAR2(20)

COLOR VARCHAR2(20)

SQL> desc Reserves;

Name Null? Type

\_\_\_\_\_\_

SID NUMBER(6)

BID NUMBER(6)

DAY DATE

SQL> insert into Sailors

values(11,'Max',7,30);1 row created.

SQL> insert into Sailors

values(12,'Rex',6,35);1 row created.

SQL> insert into Sailors

values(13,'Nix',4,28);1 row created.

SQL> insert into Sailors

values(14,'Bob',8,27);1 row created.

SQL> insert into Sailors

values(15, 'Mark', 9, 37); 1 row created.

SQL> insert into Sailors

values(16,'Ann',10,30);1 row created.

SQL> select \* from Sailors;

SID SNAME RATING AGE

11 Max 7 30

12 Rex 6 35

13 Nix	4	35
14 Bob	8	27
15 Mark	9	37
16 Ann	10	30

6 rows selected.

SQL> insert into Boats

values(101, 'Boat1', 'red'); 1 row created.

SQL> insert into Boats

values(102, 'Boat2', 'blue'); 1 row created.

SQL> insert into Boats

values(103,'Boat3','green');1 row created.

SQL> insert into Boats

values(104,'Boat4','red');1 row created.

SQL> insert into Boats

values(105, 'Boat5', 'brown'); 1 row created.

SQL> select \* from Boats;

## BID BNAME COLOR

-----

101 Boat1red102 Boat2blue103 Boat3green104 Boat4red

105 Boat5 brown

SQL> insert into Reserves values(11,101,'11-sep-

2020');1 row created.

SQL> insert into Reserves values(12,102,'01-oct-

2021');1 row created.

SQL> insert into Reserves values(13,102,'11-sep-

2020');1 row created.

SQL> insert into Reserves values(14,103,'09-sep-

NAME:-DEEPAK KUMAR

ROll NO:-0187CS201048

BRANCH:-CSE-1

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2022');1 row created.
SQL> insert into Reserves values(15,104,'19-nov-
2022');1 row created.
SQL> insert into Reserves values(16,105,'23-nov-
2019');1 row created.
SQL> insert into Reserves values(11,105,'11-sep-
2020');1 row created.
SQL> insert into Reserves values(14,104,'09-sep-
2022');1 row created.
SOL> select * from
   Reserves;
   SID
        BID DAY
    11
         101 11-SEP-20
   12
         102 01-OCT-21
    13
         102 11-SEP-20
   14
         103 09-SEP-22
   15
         104 19-NOV-22
   16
         105 23-NOV-19
   11
         105 11-SEP-20
   14
         104 09-SEP-22
8 rows selected.
2)
SQL> -----Find all information of sailors who have reserves boat number 101.-----
SQL> select sailors.sid,sailors.sname,sailors.rating,sailors.age from Sailors,Reserves,Boats where
boats.bid=101 and sailors.sid=reserves.sid and boats.bid=reserves.bid;
   SID SNAME
                      RATING AGE
            7
                            30
   11 Max
3)
SQL> -----Find the name of the boats reserved by Bob------
```

NAME:-DEEPAK KUMAR ROII NO:-0187CS201048 BRANCH:-CSE-1 SEM-V(1)

SQL> select boats.bname from Sailors,Boats,Reserves where sailors.sid=reserves.sid and boats.bid=reserves.bid andsailors.sname='Bob';
BNAME
Boat
3
Boat
4
4)
SQL>Find the name of the sailors who have reserved a red boat order by age
SNAME
Bob
Max
Mar
k
5)
SQL>Find the names of the sailors who have reserved at least one boat
SQL> select distinct sailors.sname from Sailors,Reserves where
sailors.sid=reserves.sid;SNAME
Bob
Mar
k
Ann
Rex

Nix
Max
6 rows selected.
6)
SQL> Find id and name of sailors who have reserved two different boats
SQL> select distinct sailors.sid,sailors.sname from Sailors,Reserves r1,Reserves r2 where sailors.sid=r1.sid and sailors.sid=r2.sid and r1.day=r2.day and r1.bid<>r2.bid;
SID SNAME
11 Max
14 Bob
7) SQL>Find id of sailors who have reserved a red boat or a green boats
SQL> select distinct sailors.sid from Sailors, Reserves, Boats where boats.color='red' or boats.color='green' and
sailors.sid=reserves.sid and boats.bid=reserves.bid;
SID
<del></del>
14
15
11
12
13
16
6 rows selected.