**Experiment No:7**

**Practice Queries using ANY, ALL, IN, EXISTS, UNION, INTERSECT Set Operators**

**Query:**

create database sailor;

use sailor;

CREATE TABLE SAILORS(

SID int PRIMARY KEY,

SNAME varchar(30),

RATING int,

AGE int,

CHECK ( RATING >=1 AND RATING <=10)) ;

CREATE TABLE BOATS( BID int PRIMARY KEY,

BNAME varchar(20),

BCOLOR varchar(20));

CREATE TABLE RESERVES (

SID int,

BID int,

day DATE,

PRIMARY KEY(SID,BID,day),

FOREIGN KEY(SID) REFERENCES SAILORS(SID),

FOREIGN KEY(BID) REFERENCES BOATS(BID));

INSERT INTO SAILORS VALUES(1,'VIJAY', 9, 40);

INSERT INTO SAILORS VALUES(2,'RAJESH', 10, 25);

INSERT INTO SAILORS VALUES(3,'MOHAN', 8, 23);

INSERT INTO SAILORS VALUES(4,'KUMAR', 7, 28);

INSERT INTO SAILORS VALUES(5,'SAGAR', 9, 21);

INSERT INTO SAILORS VALUES(6,'MAHESH', 9, 36);

select \* from sailors;

INSERT INTO BOATS VALUES(1,'GANGA', 'RED');

INSERT INTO BOATS VALUES(2,'JAMUNA', 'GREEN');

INSERT INTO BOATS VALUES(3,'KAVERI', 'PINK');

INSERT INTO BOATS VALUES(4,'GODAVARI', 'RED');

INSERT INTO BOATS VALUES(5,'KRISHNA', 'BLUE' );

select \* from boats;

INSERT INTO RESERVES VALUES(1,1,'2018-01-23');

INSERT INTO RESERVES VALUES(1,2, '2018-01-26');

INSERT INTO RESERVES VALUES(2,1,'2018-01-27');

INSERT INTO RESERVES VALUES(3,2,'2018-01-27');

INSERT INTO RESERVES VALUES(3,3, '2018-01-28');

select \* from reserves;

desc sailors;

SELECT S.SID, S.SNAME, S.RATING, S.AGE FROM

SAILORS AS S WHERE S.RATING > 8;

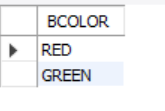
desc boats;

select \* from boats;

#Any

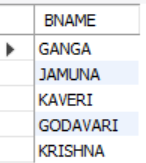
select BCOLOR from boats

where BID = ANY (select BID from reserves where day='2018-01-27');



#All

select all BNAME from boats where true;

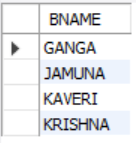


#Exists

select BNAME from boats

where Exists

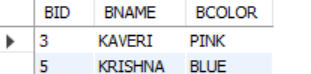
(select RATING from sailors where sailors.SID = boats.BID and RATING >= 8);



#in

select \* from boats

where BCOLOR in ('PINK' , 'BLUE');



#union

select BNAME from boats union select SNAME from sailors;

