**Write SQL queries for the following:**

1 Find the names of sailors who have reserved a red boat.

**select sname from sailors where sid in (**

**select sid from reserves where bid in (**

**select bid from boats where color = "red"));**

**2.** . Find the names of the Sailors who have reserved at least one boat

**select distinct(sname) from sailors s inner join reserves r on s.sid = r.sid;**

**select sname from sailors where sid in (select sid from reserves group by sid);**

3. Compute increments for the ratings of persons who have sailed two different boats on the same day.

**update sailors set rating = rating\*2 where sid =(**

**select distinct(r1.sid) from reserves r1, reserves r2 where r1.day = r2.day and r1.bid <> r2.bid);**

4. Find the ages of sailors whose name begins and ends with B and has at least 3 characters.

**select age from sailors where sname like 'b%b';**

5. Find the names of sailors who have reserved a red and a green boat.

**select sname from sailors where sid in (**

**select sid from reserves where bid in (**

**select bid from boats where color = "red" or color = "green"));**

6. Find the sids of all sailors who have reserved red boats but not green boats.

**select sid from sailors where sid in (**

**select sid from reserves where bid in (**

**select bid from boats where bid not in (select bid from boats where color="green" or color ="blue")));**

7. Find the sailors with the highest rating

**select sname from sailors where rating = (select max(rating) from sailors);**

8. Find the name of the oldest sailor.

**select sname from sailors where age = (select max(age) from sailors);**

9. Count the number of different sailor names.

**select count(sname) from sailors group by sname;**

10. Find the no. of sailors who is eligible to vote for each rating level.

**Select count(\*) from sailors s where age >18 group by rating;**

12. Find the sid of the sailors who have sailed exactly one boat.

**select sid from reserves group by sid having count(sid) = 1;**

13. Find sailors who have not reserved any boats.

**select sid from sailors where sid not in(select sid from reserves group by sid having count(sid) >= 1);**

14. Find the Sailors who have reserved all the boats.

**select sid from reserves group by bid having count(bid) > (select count(bid) from boats);**

15. Find all the sailors older than Dustin.

**select s.sname from sailors s where s.age > (select s1.age from sailors s1 where s1.sname ="Dustin");**

16. Find all sailors whose ratings is greater than any others rating without using aggregates like MAX.

**select sname from sailors order by rating desc limit 0, 1;**

17. Find the sailors with 3rd highest ratings.

**select sname from sailors order by rating desc limit 2, 1;**

18. Find sids of the sailors who have reserved all the boats reserved by the sailor with sid =’31’.

**select sid from reserves where bid = (select bid from reserves where sid = 31);**

19. List out all the sailors. For the sailors who have reserved some boats list out the boat’s bids also.

**select s.sid, s.sname, r.bid from sailors s join reserves r on s.sid = r.sid;**

23. Find the last three customer records inserted. (Refer the above Customer table)

**select \* from customer order by cust\_id limit 0, 3;**

24.

How will you get rows between the range x and y where x and y will be entered by the user?

**select \* from customer where cust\_id between 2 and 5;**

25

1. Alter the Sailor table such that age is between 18 and 40.

**update sailors set age = 22 where age not between 18 and 40;**

1. Alter the Boats table such that color is Red, Blue or Green.

**update boats set color="blue" where color not in("blue", "green", "red");**