CREATE TABLE sailors ( Sid int not null Primary key,Sname varchar(30),Rating int,age real);

CREATE TABLE boats ( Bid int not null Primary key,Bname varchar(30),Color varchar(20));

CREATE TABLE reserves (Sid int not null,Bid int not null,day datetime not null,FOREIGN KEY (Sid) REFERENCES sailors(Sid),FOREIGN KEY (Bid) REFERENCES boats(Bid) );

INSERT INTO sailors VALUES ( 22, 'Dustin', 7, 45.0 );

INSERT INTO sailors VALUES ( 29, 'Brutus', 1, 33.0 );

INSERT INTO sailors VALUES ( 31, 'Lubber', 9, 55 );

INSERT INTO sailors VALUES ( 32, 'Andy', 8, 25.0 );

INSERT INTO sailors VALUES ( 58, 'Rusty', 10, 35);

1. select sname from sailors where Sid in (select Sid from reserves where Bid in (select Bid from boats where Color = "red"));
2. SELECT distinct(Sname) FROM sailors S, reserves R WHERE S.Sid = R.Sid;
3. 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. select age from sailors where Sname like 'b%b';
5. select distinct(Sname) from sailors where Sid in (select Sid from reserves where Bid in (select Bid from boats where Color = "red" and Color = "green"));
6. 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. select Sname from sailors where Rating = (select max(Rating) from sailors);
8. select Sname from sailors where Age = (select max(Age) from sailors);
9. select count(Sname) from sailors group by Sname;
10. select Sid from reserves group by Sid having count(Sid) = 1;
11. select Sid from sailors where Sid not in(select Sid from reserves group by Sid having count(Sid) >= 1);
12. select Sid from reserves group by Bid having count(Bid) > (select count(Bid) from boats);
13. select s.Sname from sailors s where s.Age > (select s1.Age from sailors s1 where s1.Sname ="Dustin");
14. select Sname from sailors order by Rating desc limit 0, 1;
15. select Sname from sailors order by Rating desc limit 3, 1;
16. select Sid from reserves where Bid = (select Bid from reserves where Sid = 31);
17. select s.Sid, s.Sname, r.Bid from sailors s join reserves r on s.Sid = r.Sid;

21. select CustID,Name from customer where (referredby = @referredby OR @referredby is null);

23. select \* from customer order by CustID limit 0, 3;

24. select \* from customer where CustID between 2 and 5;

25. a. update sailors set Age = 30 where Age not between 18 and 40;

b. update boats set Color="Green" where Color not in("Blue", "Green", "Red");

c. create table reserves(Sid int not null,Bid int not null,day date not null,primary key(Sid, Bid),foreign key(Sid) references sailors(Sid),foreign key(Bid) references boats(Bid) on delete cascade

on update cascade);