

### Create table Sailors with following attributes Sid, Sname, Rating, Age

```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",8.5,50);
5 insert into sailors values(24,"appu",9.5,35);
6 insert into sailors values(25,"jibu",5.5,48);
7 select * from sailors;
```

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Output Input Comments 0

SID	sname	rating	age
21	harri	9	55
22	bibin	8	45
23	manu	8.5	50
24	appu	9.5	35
25	jibu	5.5	48

### Create table Boat with attributes Bid, Name and Color

```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",8.5,50);
5 insert into sailors values(24,"appu",9.5,35);
6 insert into sailors values(25,"jibu",5.5,48);
7
8
9 create table boats(BID int primary key,bname varchar(50),bcolor varchar(20));
10 insert into boats values(98,"island","blue");
11 insert into boats values(99,"marine","green");
12 insert into boats values(100,"speed","red");
13 insert into boats values(101,"wind","white");
14 select * from boats;
15
16
```

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BID	bname	bcolor
98	island	blue
99	marine	green
100	speed	red
101	wind	white

## Create table Reserves with the attributes Sid, Bid, Date

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```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",8.5,50);
5 insert into sailors values(24,"appu",9.5,35);
6 insert into sailors values(25,"jibu",5.5,48);
7
8
9 create table boats(BID int primary key,bname varchar(50),bcolor varchar(20));
10 insert into boats values(98,"island","blue");
11 insert into boats values(99,"marine","green");
12 insert into boats values(100,"speed","red");
13 insert into boats values(101,"wind","white");
14
15
16 create table reserves(SID int,BID int,day varchar(20),primary key(SID,BID,day),foreign key (SID) references sailors(SID),foreign key (BID) references boats(BID));
17 insert into reserves values(22,99,"monday");
18 insert into reserves values(23,100,"wednesday");
19 insert into reserves values(22,99,"friday");
20 insert into reserves values(24,101,"sunday");
21 select * from reserves;
22
23
```

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SID	BID	day
22	99	friday
22	99	monday
23	100	wednesday
24	101	sunday

### 1. Find the names of sailors who have not reserved a red boat

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```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",8.5,50);
5 insert into sailors values(24,"appu",9.5,35);
6 insert into sailors values(25,"jibu",5.5,48);
7
8
9 create table boats(BID int primary key,bname varchar(50),bcolor varchar(20));
10 insert into boats values(98,"island","blue");
11 insert into boats values(99,"marine","green");
12 insert into boats values(100,"speed","red");
13 insert into boats values(101,"wind","white");
14
15
16 create table reserves(SID int,BID int,day varchar(20),primary key(SID,BID,day),foreign key (SID) references sailors(SID),foreign key (BID) references boats(BID));
17 insert into reserves values(22,99,"monday");
18 insert into reserves values(23,100,"wednesday");
19 insert into reserves values(22,99,"friday");
20 insert into reserves values(24,101,"sunday");
21 select S.sname from sailors S where S.sid not in(select R.sid from reserves R where R.bid in (select B.bid from boats B where B.bcolor="red"));
22
23
```

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Output Input Comments 0

sname
harri
bibin
appu
jibu

## 2. Find the sailors whose rating is better than some sailor called "Harri"

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```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",8.5,50);
5 insert into sailors values(24,"appu",9.5,35);
6 insert into sailors values(25,"jibu",5.5,40);
7
8
9 create table boats(BID int primary key,bname varchar(50),bcolor varchar(20));
10 insert into boats values(98,"island","blue");
11 insert into boats values(99,"marine","green");
12 insert into boats values(100,"speed","red");
13 insert into boats values(101,"wind","white");
14
15
16 create table reserves(SID int,BID int,day varchar(20),primary key(SID,BID,day),foreign key (SID) references sailors(SID),foreign key (BID) references boats(BID));
17 insert into reserves values(22,99,"monday");
18 insert into reserves values(23,100,"wednesday");
19 insert into reserves values(22,99,"friday");
20 insert into reserves values(24,101,"sunday");
21 select S.sname,S.rating from sailors S where S.rating >any(select S2.rating from sailors S2 where S2.sname='harri');
22
23
```

Save and Run

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Output Input Comments 0

sname	rating
appu	9.5

## 3. Find the sailors with highest rating

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```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",8.5,50);
5 insert into sailors values(24,"appu",9.5,35);
6 insert into sailors values(25,"jibu",5.5,40);
7
8
9 create table boats(BID int primary key,bname varchar(50),bcolor varchar(20));
10 insert into boats values(98,"island","blue");
11 insert into boats values(99,"marine","green");
12 insert into boats values(100,"speed","red");
13 insert into boats values(101,"wind","white");
14
15
16 create table reserves(SID int,BID int,day varchar(20),primary key(SID,BID,day),foreign key (SID) references sailors(SID),foreign key (BID) references boats(BID));
17 insert into reserves values(22,99,"monday");
18 insert into reserves values(23,100,"wednesday");
19 insert into reserves values(22,99,"friday");
20 insert into reserves values(24,101,"sunday");
21 select * from sailors S where S.rating>all(select S2.rating from sailors S2);
22
```

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Output Input Comments 0

SID	sname	rating	age
24	appu	9.5	35

## 4. Find the names of sailors who have reserved all boats

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```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",8.5,50);
5 insert into sailors values(24,"appu",9.5,35);
6 insert into sailors values(25,"jibu",6.5,40);
7
8
9 create table boats(BID int primary key,bname varchar(50),bcolor varchar(20));
10 insert into boats values(98,"island","blue");
11 insert into boats values(99,"marine","green");
12 insert into boats values(100,"speed","red");
13 insert into boats values(101,"wind","white");
14
15
16 create table reserves(SID int,BID int,day varchar(20),primary key(SID,BID,day),foreign key (SID) references sailors(SID),foreign key (BID) references boats(BID));
17 insert into reserves values(22,99,"monday");
18 insert into reserves values(23,100,"wednesday");
19 insert into reserves values(22,99,"friday");
20 insert into reserves values(24,101,"sunday");
21 insert into reserves values(23,101,"wednesday");
22 insert into reserves values(22,100,"friday");
23 insert into reserves values(22,101,"sunday");
24 select S.sname from sailors S where not exists(select B.bid from boats B where not exists(select R.bid from reserves R where R.bid=B.bid and R.sid=S.sid));
25
```

Save and Run

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Output Input Comments 0

sname
bibin

## 5. Find the name and age of the oldest sailor

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```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",5.5,50);
5 insert into sailors values(24,"appu",9.5,35);
6 insert into sailors values(25,"jibu",6.5,40);
7
8
9 create table boats(BID int primary key,bname varchar(50),bcolor varchar(20));
10 insert into boats values(98,"island","blue");
11 insert into boats values(99,"marine","green");
12 insert into boats values(100,"speed","red");
13 insert into boats values(101,"wind","white");
14
15
16 create table reserves(SID int,BID int,day varchar(20),primary key(SID,BID,day),foreign key (SID) references sailors(SID),foreign key (BID) references boats(BID));
17 insert into reserves values(22,98,"monday");
18 insert into reserves values(23,100,"wednesday");
19 insert into reserves values(22,99,"friday");
20 insert into reserves values(24,101,"sunday");
21 insert into reserves values(23,101,"wednesday");
22 insert into reserves values(22,100,"friday");
23 insert into reserves values(22,101,"sunday");
24 select S.sname,S.age from sailors S where S.age =(select max(S2.age)from sailors S2);
25
```

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Output	Input	Comments 0
sname age		
harri 55		

## 6.Find the name of sailor who are older than the oldest sailor with rating of 10

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```
1 create table sailors(SID int primary key,sname varchar(50),rating float,age int);
2 insert into sailors values(21,"harri",9,55);
3 insert into sailors values(22,"bibin",8,45);
4 insert into sailors values(23,"manu",5.5,50);
5 insert into sailors values(24,"appu",10,35);
6 insert into sailors values(25,"jibu",6.5,40);
7
8
9 create table boats(BID int primary key,bname varchar(50),bcolor varchar(20));
10 insert into boats values(98,"island","blue");
11 insert into boats values(99,"marine","green");
12 insert into boats values(100,"speed","red");
13 insert into boats values(101,"wind","white");
14
15
16 create table reserves(SID int,BID int,day varchar(20),primary key(SID,BID,day),foreign key (SID) references sailors(SID),foreign key (BID) references boats(BID));
17 insert into reserves values(22,98,"monday");
18 insert into reserves values(23,100,"wednesday");
19 insert into reserves values(22,99,"friday");
20 insert into reserves values(24,101,"sunday");
21 insert into reserves values(23,101,"wednesday");
22 insert into reserves values(22,100,"friday");
23 insert into reserves values(22,101,"sunday");
24 select S.sname from sailors S where S.age >(select max(S2.age)from sailors S2 where S2.rating=10);
25
```

Save and Run

Run (Ctrl-Enter) MySQL books

Output	Input	Comments 0
sname		
harri		
bibin		
manu		
jibu		