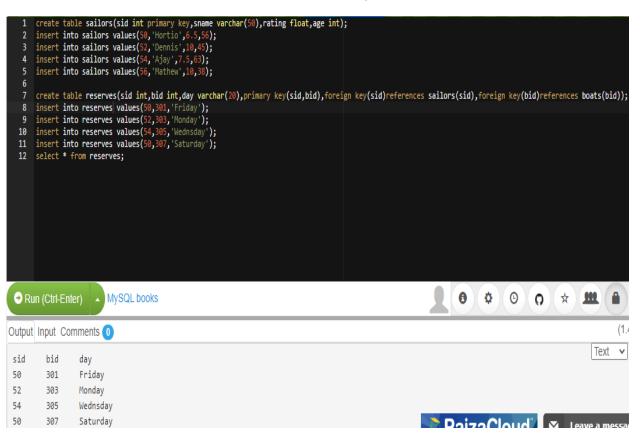## 1 . Create table sailors with attributes-sid, sname, rating, age

```
1   create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2   insert into sailors values(50,'Hortio',6.5,56);
3   insert into sailors values(52,'Dennis',10,45);
4   insert into sailors values(54,'Ajay',7.5,63);
5   insert into sailors values(56,'Mathew',10,38);
6   select * from sailors;
```

Run (Ctrl-Enter) ◢ MySQL books

Output Input Comments **0**

sid	sname	rating	age
50	Hortio	6.5	56
52	Dennis	10	45
54	Ajay	7.5	63
56	Mathew	10	38

2 . Create table reserves with attributes-sid,bid,day

```
1   create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2   insert into sailors values(50,'Hortio',6.5,56);
3   insert into sailors values(52,'Dennis',10,45);
4   insert into sailors values(54,'Ajay',7.5,63);
5   insert into sailors values(56,'Mathew',10,38);
6
7   create table reserves(sid int,bid int,day varchar(20),primary key(sid,bid),foreign key(sid)references sailors(sid),foreign key(bid)references boats(bid));
8   insert into reserves values(50,301,'Friday');
9   insert into reserves values(52,303,'Monday');
10  insert into reserves values(54,305,'Wednsday');
11  insert into reserves values(50,307,'Saturday');
12  select * from reserves;
```

Run (Ctrl-Enter) ◢ MySQL books

Output Input Comments **0**   (1.4

Text ∨

sid	bid	day
50	301	Friday
52	303	Monday
54	305	Wednsday
50	307	Saturday

PaizaCloud   Leave a messa

3 . Create table boats with attributes-bid,bname and bcolor

```
1   create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2   insert into sailors values(50,'Hortio',6.5,56);
3   insert into sailors values(52,'Dennis',10,45);
4   insert into sailors values(54,'Ajay',7.5,63);
5   insert into sailors values(56,'Mathew',10,38);
6
7   create table reserves(sid int,bid int,day varchar(20),primary key(sid,bid),foreign key(sid)references sailors(sid),foreign key(bid)references boats(bid));
8   insert into reserves values(50,301,'Friday');
9   insert into reserves values(52,303,'Monday');
10  insert into reserves values(54,305,'Wednsday');
11  insert into reserves values(50,303,'Saturday');
12
13  create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
14  insert into boats values(303,'Marine','black');
15  insert into boats values(305,'Drown','red');
16  insert into boats values(301,'Splay','white');
17  insert into boats values(307,'Speedy','green');
18  select * from boats;
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments **0**

Text ▼

bid	bname	bcolor
303	Marine	black
305	Drown	red
301	Splay	white
307	Speedy	green

PaizaCloud   Leave a messag

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

```
1   create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2   insert into sailors values(50,'Hortio',6.5,56);
3   insert into sailors values(52,'Dennis',10,45);
4   insert into sailors values(54,'Ajay',7.5,63);
5   insert into sailors values(56,'Mathew',10,38);
6
7   create table reserves(sid int,bid int,day varchar(20),primary key(sid,bid),foreign key(sid)references sailors(sid),foreign key(bid)references boats(bid));
8   insert into reserves values(50,301,'Friday');
9   insert into reserves values(52,303,'Monday');
10  insert into reserves values(54,305,'Wednsday');
11  insert into reserves values(50,303,'Saturday');
12
13  create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
14  insert into boats values(303,'Marine','black');
15  insert into boats values(305,'Drown','red');
16  insert into boats values(301,'Splay','white');
17  insert into boats values(307,'Speedy','green');
18  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'));
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments **0**

Text ▼

sname
Hortio
Dennis
Mathew

5 . Find the sailors whose rating is better than some sailor called Hortio

```sql
1  create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2  insert into sailors values(50,'Hortio',6.5,56);
3  insert into sailors values(52,'Dennis',10,45);
4  insert into sailors values(54,'Ajay',7.5,63);
5  insert into sailors values(56,'Mathew',10,38);
6
7  create table reserves(sid int,bid int,day varchar(20),primary key(sid,bid),foreign key(sid)references sailors(sid),foreign key(bid)references boats(bid));
8  insert into reserves values(50,301,'Friday');
9  insert into reserves values(52,303,'Monday');
10 insert into reserves values(54,305,'Wednsday');
11 insert into reserves values(50,303,'Saturday');
12
13 create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
14 insert into boats values(303,'Marine','black');
15 insert into boats values(305,'Drown','red');
16 insert into boats values(301,'Splay','white');
17 insert into boats values(307,'Speedy','green');
18 select S.sname,S.rating from sailors S where S.rating>any(select S2.rating from sailors S2 where S2.sname='Hortio');
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments 0 (1.5

Text ▼

sname	rating
Dennis	10
Ajay	7.5
Mathew	10

6 . Find the sailors with highest rating

```sql
1  create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2  insert into sailors values(50,'Hortio',6.5,56);
3  insert into sailors values(52,'Dennis',10,45);
4  insert into sailors values(54,'Ajay',7.5,63);
5  insert into sailors values(56,'Mathew',10,38);
6
7  create table reserves(sid int,bid int,day varchar(20),primary key(sid,bid),foreign key(sid)references sailors(sid),foreign key(bid)references boats(bid));
8  insert into reserves values(50,301,'Friday');
9  insert into reserves values(52,303,'Monday');
10 insert into reserves values(54,305,'Wednsday');
11 insert into reserves values(50,303,'Saturday');
12
13 create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
14 insert into boats values(303,'Marine','black');
15 insert into boats values(305,'Drown','red');
16 insert into boats values(301,'Splay','white');
17 insert into boats values(307,'Speedy','green');
18 select * from sailors S where S.rating>=all(select S2.rating from sailors S2);
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments 0 (1.5

Text ▼

sid	sname	rating	age
52	Dennis	10	45
56	Mathew	10	38

7 . Find the name of sailors who have reserved all boats

```sql
1  create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2  insert into sailors values(50,'Hortio',6.5,56);
3  insert into sailors values(52,'Dennis',10,45);
4  insert into sailors values(54,'Ajay',7.5,63);
5  insert into sailors values(56,'Mathew',10,38);
6
7  create table reserves(sid int,bid int,day varchar(20),primary key(sid,bid),foreign key(sid)references sailors(sid),foreign key(bid)references boats(bid));
8  insert into reserves values(50,301,'Friday');
9  insert into reserves values(52,303,'Monday');
10 insert into reserves values(54,305,'Wednsday');
11 insert into reserves values(50,303,'Saturday');
12 insert into reserves values(54,303,'Saturday');
13 insert into reserves values(54,301,'Friday');
14 insert into reserves values(54,307,'Wednesday');
15
16 create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
17 insert into boats values(303,'Marine','black');
18 insert into boats values(305,'Drown','red');
19 insert into boats values(301,'Splay','white');
20 insert into boats values(307,'Speedy','green');
21 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));
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments 0 (1.51

Text ▼

sname
Ajay

8 . Find the name and age of the oldest sailors

```
1   create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2   insert into sailors values(50,'Hortio',6.5,56);
3   insert into sailors values(52,'Dennis',10,45);
4   insert into sailors values(54,'Ajay',7.5,63);
5   insert into sailors values(56,'Mathew',10,38);
6
7   create table reserves(sid int,bid int,day varchar(20),primary key(sid,bid),foreign key(sid)references sailors(sid),foreign key(bid)references boats(bid));
8   insert into reserves values(50,301,'Friday');
9   insert into reserves values(52,303,'Monday');
10  insert into reserves values(54,305,'Wednsday');
11  insert into reserves values(50,303,'Saturday');
12  insert into reserves values(54,303,'Saturday');
13  insert into reserves values(54,301,'Friday');
14  insert into reserves values(54,307,'Wednesday');
15  create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
16  insert into boats values(303,'Marine','black');
17  insert into boats values(305,'Drown','red');
18  insert into boats values(301,'Splay','white');
19  insert into boats values(307,'Speedy','green');
20  select S.sname,S.age from sailors S where S.age=(select max(S2.age)from sailors S2);
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments ⓪   (1.5

Text ▾

sname	age
Ajay	63

9 . Find the names of sailors who are older than the oldest sailor with rating of 10

```
1   create table sailors(sid int primary key,sname varchar(50),rating float,age int);
2   insert into sailors values(50,'Hortio',6.5,56);
3   insert into sailors values(52,'Dennis',10,45);
4   insert into sailors values(54,'Ajay',7.5,63);
5   insert into sailors values(56,'Mathew',10,38);
6
7   create table reserves(sid int,bid int,day varchar(20),primary key(sid,bid),foreign key(sid)references sailors(sid),foreign key(bid)references boats(bid));
8   insert into reserves values(50,301,'Friday');
9   insert into reserves values(52,303,'Monday');
10  insert into reserves values(54,305,'Wednsday');
11  insert into reserves values(50,303,'Saturday');
12  insert into reserves values(54,303,'Saturday');
13  insert into reserves values(54,301,'Friday');
14  insert into reserves values(54,307,'Wednesday');
15  create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
16  insert into boats values(303,'Marine','black');
17  insert into boats values(305,'Drown','red');
18  insert into boats values(301,'Splay','white');
19  insert into boats values(307,'Speedy','green');
20  select S.sname from sailors S where S.age=(select max(S2.age)from sailors S2 where S2.rating=10);
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments ⓪   (1.5

Text ▾

sname
Dennis