

1 . Create a table sailors with following attribute 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 another table reserves with the 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 boats(bid int primary key,bname varchar(50),bcolor varchar(20));
8 insert into boats values(103,'Marine','black');
9 insert into boats values(104,'Drown','red');
10 insert into boats values(105,'Splay','white');
11 insert into boats values(107,'Speedy','green');
12 select * from boats;
13
```

Run (Ctrl-Enter)

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Output Input Comments 0

bid	bname	bcolor
103	Marine	black
104	Drown	red
105	Splay	white
107	Speedy	green

3 . Create a table boat 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,'Wednesday');
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(103,'Marine','black');
18 insert into boats values(104,'Drown','red');
19 insert into boats values(105,'Splay','white');
20 insert into boats values(107,'Speedy','green');
21 select * from reserves;
22
```

Run (Ctrl-Enter) MySQL books

Output	Input	Comments
sid	bid	day
50	301	Friday
52	303	Monday
54	305	Wednesday
50	303	Saturday
54	303	Saturday

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4 . Find the names of sailors who have reserved a red or a green 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(50,103,'Friday');
9 insert into reserves values(52,104,'Monday');
10 insert into reserves values(54,105,'Wednesday');
11 insert into reserves values(52,103,'Saturday');
12 insert into reserves values(54,104,'Saturday');
13 insert into reserves values(50,107,'Friday');
14 insert into reserves values(54,107,'Wednesday');
15
16 create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
17 insert into boats values(103,'Marine','black');
18 insert into boats values(104,'Drown','red');
19 insert into boats values(105,'Splay','white');
20 insert into boats values(107,'Speedy','green');
21 select S.sname from sailors S,reserves R,boats B where S.sid=R.sid and R.bid=B.bid and (B.bcolor='red' or B.bcolor='green');
22
```

Run (Ctrl-Enter) MySQL books

Output	Input	Comments
sname		
Dennis		
Ajay		
Hortio		
Ajay		

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5 . Find the names of sailors who have represent both a red or a green 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(50,103,'Friday');
9 insert into reserves values(52,104,'Monday');
10 insert into reserves values(54,105,'Wednesday');
11 insert into reserves values(52,103,'Saturday');
12 insert into reserves values(54,104,'Saturday');
13 insert into reserves values(50,107,'Friday');
14 insert into reserves values(54,107,'Wednesday');
15
16 create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
17 insert into boats values(103,'Marine','black');
18 insert into boats values(104,'Drown','red');
19 insert into boats values(105,'Splay','white');
20 insert into boats values(107,'Speedy','green');
21 select sid,sname from sailors where sid in(select sid from reserves where bid in (select bid from boats where bcolor in('red','green')));
22
```

Run (Ctrl-Enter) MySQL books

Output	Input	Comments
sid	sname	
50	Hortio	
52	Dennis	
54	Ajay	

6 . Find the sid's of all sailors who reserved a red boat but not a green 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(50,103,'Friday');
9 insert into reserves values(52,104,'Monday');
10 insert into reserves values(54,105,'Wednesday');
11 insert into reserves values(52,103,'Saturday');
12 insert into reserves values(54,104,'Saturday');
13 insert into reserves values(50,107,'Friday');
14 insert into reserves values(54,107,'Wednesday');
15
16 create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
17 insert into boats values(103,'Marine','black');
18 insert into boats values(104,'Drown','red');
19 insert into boats values(105,'Splay','white');
20 insert into boats values(107,'Speedy','green');
21 select S.sid from sailors S,reserves R,boats B where S.sid=R.sid and R.bid=B.bid and B.bcolor='green'except S2.sid from sailors S2,reserves R2,boats B2
22 where S2.sid=R2.sid and R2.bid=B2.bid and B2.bcolor='green';
```

Run (Ctrl-Enter) MySQL books

Output Runtime error Input Comments 0 (1.54 s)

ERROR 1064 (42000) at line 22: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '.reserves R,boats B where S.sid=R.sid and R.bid=B.bid and B.bcolor='green'except' at line 1

7 . Find all sid of sailors who have a rating of 10 or have reserved boat 104

```
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(50,103,'Friday');
9 insert into reserves values(52,104,'Monday');
10 insert into reserves values(54,105,'Wednesday');
11 insert into reserves values(52,103,'Saturday');
12 insert into reserves values(54,104,'Saturday');
13 insert into reserves values(50,107,'Friday');
14 insert into reserves values(54,107,'Wednesday');
15
16 create table boats(bid int primary key,bname varchar(50),bcolor varchar(20));
17 insert into boats values(103,'Marine','black');
18 insert into boats values(104,'Drown','red');
19 insert into boats values(105,'Splay','white');
20 insert into boats values(107,'Speedy','green');
21 select S.sid from sailors S where S.rating=10 union select R.sid from reserves R where R.bid=104;
```

Run (Ctrl-Enter) MySQL books

Output Input Comments 0 (1.54 s)

Text

sid
52
56
54