Queries

 select DISTINCT reserves.bid, boats.bname, count(*) from reserves inner join boats using(bid) group by reserves.bid;

9	O v	, .
++ bid ++	+ bname +	+ count(*) +
101	Interlake	2
102	Interlake	3
103	Clipper	3
104	Clipper	5
105	Marine	3
106	Marine	3
109	Driftwood	4
112	Sooney	1
110	Klapser	3
107	Marine	1
111	Sooney	1
108	Driftwood	1
++	+	+
12 rows	in set (0.0	0 sec)

2) select s.sname, s.sid from sailors s where not exists (select b.bid from boats b where b.color = 'red' and not exists (select * from reserves r where r.bid = b.bid and r.sid = s.sid));

Empty set (0.00 sec)

3) select distinct s.sid, s.sname from sailors s, reserves r, boats b
 where r.bid = b.bid and s.sid = r.sid and b.color = "red" and s.sid not
 in(select s.sid from sailors s, reserves r, boats b where s.sid=r.sid
 and r.bid=b.bid and b.color != "red");

```
+----+
| sid | sname |
+----+
| 23 | emilio |
| 24 | scruntus |
| 35 | figaro |
| 61 | ossola |
| 62 | shaun |
+----+
5 rows in set (0.00 sec)
```

4) select boats.bid, boats.bname, count(*) from boats inner join reserves using(bid) group by boats.bid order by count(*) desc limit 1;

```
+----+
| bid | bname | count(*) |
+----+
| 104 | Clipper | 5 |
+----+
1 row in set (0.00 sec)
```

5) select sid, sname from sailors where not exists(select * from reserves where reserves.sid=sailors.sid and reserves.bid in (select bid from boats where color='red'));

6) select avg(age) from sailors where rating=10;

```
mysql> select avg(age) from sailors where rating=10;
+-----+
| avg(age) |
+-----+
| 35.0000 |
+-----+
1 row in set (0.00 sec)
```

7) select rating, sname, sid, age from (select rating, sid, sname, age, rank() over (partition by rating order by age) as r from sailors) as t where r=1;

4		4	LL			
rating	sname	sid	age			
1 1	scruntus	24	33			
1	brutus	29	33			
3	art	85	25			
3	dye	89	25			
7	ossola	61	16			
7	horatio	64	16			
8	andy	32	25			
8	stum	59	25			
9	horatio	74	25			
9	dan	88	25			
10	rusty	58	35			
10	jit	60	35			
10	shaun	62	35			
10	zorba	71	35			
++						
14 rows in set (0.01 sec)						

8) select sid, sname, bid, c from (select sid, sname, bid, c, rank() over
 (partition by bid order by c desc) as rnk from (select s.sid, s.sname,
 b.bid, count(*) as c from sailors s, reserves r, boats b where b.bid =
 r.bid and s.sid = r.sid group by b.bid, s.sid) as t_1) as t_2 where
 rnk = 1;

sid	İ	sname	bid	c	
22	-+- 	dusting	101	1	
64	Ĺ	horatio	101	1	
22	Ĺ	dusting	102	1	
31	Ĺ	lubber	102	1	
64	Ĺ	horatio	102	1	
22	Ĺ	dusting	103	1	
31	Ĺ	lubber	103	1	
74	Ĺ	horatio	103	1	
22	Ĺ	dusting	104	1	
23	Ĺ	emilio	104	1	
24	Ĺ	scruntus	104	1	
31	Ĺ	lubber	104	1	
35	Ĺ	figaro	104	1	
23	Ĺ	emilio	105	1	
35	Ĺ	figaro	105	1	
59	Ĺ	stum	105	1	
60	Ĺ	jit	106	2	
88	Ĺ	dan	107	1	
89	Ĺ	dye	108	1	
59	Ĺ	stum	109	1	
60	Ĺ	jit	109	1	
89	Ĺ	dye	109	1	
90	Ĺ	vin	109	1	
88	İ	dan	110	2	
88	Ĺ	dan	111	1	
61	İ	ossola	 112	1 j	
++					
26 rows in set (0.00 sec)					