

SQL Exercises

Questions:

Consider the Sailors-Boats-Reserves DB described in below.

S (sid, sname, rating, age)

B (bid, bname, color)

R (sid, bid, date)

Sailors				Boats			Reserves		
Sid	Sname	Rating	Age	bid	bname	color	sid	bid	day
22	Dustin	7	45	101	Interlake	blue	22	101	1998-10-10
29	Brutus	1	33	102	Interlake	red	22	102	1998-10-10
31	Lubber	8	55.5	103	Clipper	green	22	103	1998-10-8
32	Andy	8	25.5	104	Marine	red	22	104	1998-10-7
58	Rusty	10	35				31	102	1998-11-10
64	Horatio	7	35				31	103	1998-11-6
71	Zorba	10	16				31	104	1998-11-12
74	Horatio	9	40				64	101	1998-9-5
85	Art	3	25.5				64	102	1998-9-8
95	Bob	3	63.5				74	103	1998-9-8

Figure 1: Instances of Sailors, Boats and Reserves

Give a **SQL expression** for each of the following queries:

1. Find the colors of boats reserved by Dustin.
2. Find all IDs of sailors who have a rating of at least 8 or have reserved boat 103.
3. Find the names of sailors who have not reserved a red boat.
4. Find the IDs of sailors with age over 20 who have not reserved a red boat.
5. Find the names of sailors who have reserved at least two boats.
6. Find the names of sailors who have reserved all boats.
7. Find the names of sailors who have reserved all boats called Interlake.
8. Find the IDs of sailors whose rating is better than some sailor called Andy.
9. Find the IDs of sailors whose rating is better than every sailor called Andy.
10. Find the IDs of sailors with the highest rating.
11. Find the name and age of the oldest sailor