

EXERCISE-III

Consider the following relations and their data(Assume the constraints required)

sailors (sid, sname, rating, age)

boats (bid, bname, color)

reserves (sid, bid ,day)

sailors:-

SID	SNAME	RATING	AGE
22	Dustin	7	45.0
29	Brutus	1	33.0
31	Lubber	8	55.5
32	Andy	8	25.5
58	Rusty	10	35.0
64	Horatio	7	35.0
71	Zorba	10	16.0
74	Horatio	9	35.0
85	Art	3	25.5
95	Bob	3	63.5

reserves:-

SID	BID	Day
22	101	10/10/98
22	102	10/10/98
22	103	10/8/98
22	104	10/7/98
31	102	11/10/98
31	103	11/6/98
31	104	11/12/98
64	101	9/5/98
64	102	9/8/98
74	103	9/8/98

boats:-

BID	BNAME	COLOR
101	Interlake	Blue
102	Interlake	Red
103	Clipper	Green
104	Marine	Red

Solve the following queries

1. Find the names and age of all sailors.
2. Find the all sailors with rating above 7.
3. Find the names of sailors who have reserved boat no 103.
4. Find the sid of sailors who have reserved a red boat.
5. Find the names of sailors who have reserved a red boat.
6. Find the colours of boats reserved by lubber.
7. Find the names of sailors who have reserved at least one boat.
8. Compute increment for the ratings of persons who have sailed two different boats on the same day.
9. Find the ages of sailors whose name begin and ends with 'b' and at least three characters.
10. Find the names of sailors who reserved a red or a green boat.
11. Find the names of sailors who reserved a red and a green boat.
12. Find the sid's of all sailors who have reserved red boat but not green boats.
13. Find the sid's of sailors who have a rating of 10 or reserved boat 104.
14. Find the names of sailors who have not reserved a red boat.
15. Find the sailors whose rating is better than some sailor called 'horatio'.
16. Find sailors whose rating is better than every sailor called 'horatio'.
17. Find sailors with the highest rating.
18. Find the names of sailors who have reserved all boats.
19. Find average age of all sailors.
20. Find average age of sailors with rating 10.
21. Find the name and age of the oldest sailor.
22. Count the number of sailors.
23. Count the number of different distinct sailors names
24. Find the names of sailors who are older than the oldest sailor with the rating of 10.
25. Find the age of the youngest sailor for each rating level.