

06.03.2024 (AN)

1. Create the following tables with appropriate domain and integrity constraints:  
Sailors (sid: integer, sname: string, rating: integer, age: real);  
Boats (bid: integer, bname: string, color: string);  
Reserves (sid: integer, bid: integer, day: date).

Write SQL statements for the following queries on the given tables:

2. Insert at least 5 appropriate records / rows in each table.
3. Find all information of sailors who have reserved boat number 101.
4. Update the color of the boat from 'Red' to 'Blue'.
5. Find the names of sailors who have reserved at least one boat.
6. Find the ids and names of sailors who have reserved two different boats on the same day.
7. Find the ids of sailors who have reserved a red boat or a green boat.
8. Find the ids of sailors who have reserved neither a red boat nor a green boat.
9. Find the names of sailors who have reserved boat 103. (Use correlated nested query).
10. Find the average age of sailors for each rating level.
11. Find the average age of sailors for each rating level that has at least two sailors.
12. List all sailors' information along with the boat id if they have reserved for one otherwise null.
13. Find all sailors id who have reserved boat(s) between 28.2.2024 and 05.3.2024.
14. Display the age of the Sailors 15 years from today .