Writing Relational Algebra and Tuple Relational Calculus (TRC) Expressions

Consider the following relation schemas:

Sailors(sid: integer, sname: string, rating: integer, age: integer)
Boats(bid: integer, bname: string, color: string)
Reserves(sid: integer, bid: integer, day: date)

1. Find the sailors who have reserved a red boat.

RA:

TRC:

2. Find the names of sailors who have reserved at least three boats.

RA:

TRC:
3. Find the names of sailors who have reserved all boats.

   **RA:**

   **TRC:**

4. Find the *sids* of sailors with the highest rating.

   **RA:**

   **TRC:**