

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: