

❑ Question:

- ❑ Consider the following schema where sailors can reserve boats. The primary keys are underlined.

Sailors(sid: *integer*, sname: *string*, rating: *integer*, age: *real*)

Boats(bid: *integer*, bname: *string*, color: *string*)

Reserves(sid: *integer*, bid: *integer*, day: *date*)

- ❑ Write the following queries in SQL.

Q1: Find the names of sailors who have reserved boat number 103.

Q2: Find the sid's of sailors who've reserved at least two different boats on the same day.

Q3: Find sid's of sailors who've reserved a red or a green boat

Q4: Find sid's of sailors who've reserved a red and a green boat

Reserves R1

| <u>sid</u> | <u>bid</u> | <u>day</u> |
|------------|------------|------------|
| 22 | 104 | 02/28/07 |
| 22 | 102 | 02/28/07 |
| 58 | 103 | 03/12/07 |

Reserves R2

| <u>sid</u> | <u>bid</u> | <u>day</u> |
|------------|------------|------------|
| 22 | 104 | 02/28/07 |
| 22 | 102 | 02/28/07 |
| 58 | 103 | 03/12/07 |

Sailors

| <u>sid</u> | sname | rating | age |
|------------|--------|--------|------|
| 22 | dustin | 7 | 45.0 |
| 31 | lubber | 8 | 55.5 |
| 58 | rusty | 10 | 35.0 |

Boats

| <u>bid</u> | bname | color |
|------------|-----------|-------|
| 101 | Interlake | blue |
| 102 | Interlake | red |
| 103 | Clipper | green |
| 104 | Marine | red |

Reserves R1

| <u>sid</u> | <u>bid</u> | <u>day</u> |
|------------|------------|------------|
| 22 | 104 | 02/28/07 |
| 22 | 102 | 02/28/07 |
| 58 | 103 | 03/12/07 |

Boats B1

| <u>bid</u> | bname | color |
|------------|-----------|-------|
| 101 | Interlake | blue |
| 102 | Interlake | red |
| 103 | Clipper | green |
| 104 | Marine | red |

Reserves R2

| <u>sid</u> | <u>bid</u> | <u>day</u> |
|------------|------------|------------|
| 22 | 104 | 02/28/07 |
| 22 | 102 | 02/28/07 |
| 58 | 103 | 03/12/07 |

Boats B2

| <u>bid</u> | bname | color |
|------------|-----------|-------|
| 101 | Interlake | blue |
| 102 | Interlake | red |
| 103 | Clipper | green |
| 104 | Marine | red |