Ben Albright

CS-300-ON

1. List only the name and rating for all Sailors.

**πsname, rating(S)**

1. List all sailor information for sailors with a rating>8).

**σrating>8(S)**

1. List the boat id for boats all red boats.

**πbid(σcolor=”red”(B))**

1. List the boat id for all red boats and all green boats.

**πbid(σcolor=”red”(B)) ⋃ πbid(σcolor=”green”(B))**

1. List the name of every sailor who is aged 16 or under.

**πsname(σage<=16(S))**

1. List the name and rating for all sailors who have a rating of 7 and below.

**πsname, rating(σrating<=7(S))**

1. Count the number of reservations for boat number 4.

**pR(myCount) ℑ COUNT bid (σbid=4(R))**

1. Find the names of sailors who have reserved boat 103.

**πsname(σbid=103(S))**

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

**πsname(σcolor=”red”(S))**

1. Find the colors of the boats reserved by Lubber.

**πcolor(σsname=”Lubber”(B))**

1. Find the names of sailors who have reserved a red and green boat.

**πsname(σcolor=”red”, σcolor=”green”(S))**

1. Find the names of sailors with age over 20 who have not reserved a red boat.

**πsname(σage>20, σcolor≠”red”(S))**