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CS300-ON Assignment 2

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”^color= “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.

πday(σbid=4(R))

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

πsname(σbid=103(R⋈S))

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

πsname(σcolor=”red”(B))⋈R⋈S)

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

πcolor((σsname=”Lubber”(S))⋈R⋈B)

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

πsname(σcolor=”red”(B))⋈R⋈S) ⋃ πsname(σcolor=”green”(B))⋈R⋈S)

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

πsname((πsid(σage>20(S))-πsid(σcolor=”red”(B)⋈R)