Garrett Ferguson

1. List only the name and rating for all Sailors.
   1. πsname,rating(S)
2. List all sailor information for sailors with a rating>8.
   1. σrating>8(S)
3. List the boat id for boats all red boats.
   1. πbid(σcolor=”red”(B))
4. List the boat id for all red boats and all green boats.
   1. πbid(σcolor=”red”(B) U σcolor=”green”(B))
5. List the name of every sailor who is aged 16 or under.
   1. πsname(σage<16(S))
6. List the name and rating for all sailors who have a rating of 7 and below.
   1. πsname,rating(σrating<7(S))
7. Count the number of reservations for boat number 4.
   1. 子COUNT bid=4(σbid=4(R))
   2. 子 is supposed to be the weird aggregate symbol
8. Find the names of sailors who have reserved boat 103.
   1. πsname(σbid=103(R))
9. Find the names of sailors who have reserved a red boat.
   1. πsname(πbid(R) ⋈ σcolor=”red”(B))
10. Find the colors of the boats reserved by Lubber.
    1. πcolor(σsname=”Lubber”(S))
11. Find the names of sailors who have reserved a red and green boat.
    1. πsname(σcolor=”red”(B) ⋈ σcolor=”green”(B))
12. Find the names of sailors with age over 20 who have not reserved a red boat.
    1. πsname(σage>20(S)) - πsname(σcolor=”red”(B))