Write Up of design:

SELECT S.sid, B.bid
FROM Sailors S, Boats B, Reserves R
WHERE B.sid=S.sid AND B.bid<3 AND R.sid=S.sid

ρ
SELECT S.sid, B.bid

B.sid=S.sid AND B.bid<3 AND R.sid=S.sid

B.sid=S.sid AND B.bid<3 AND R.sid=S.sid

σ
B.sid=S.sid AND B.bid<3 AND R.sid=S.sid

sailors S

σ
B.sid=S.sid AND B.bid<3 AND R.sid=S.sid

Boats B

σ
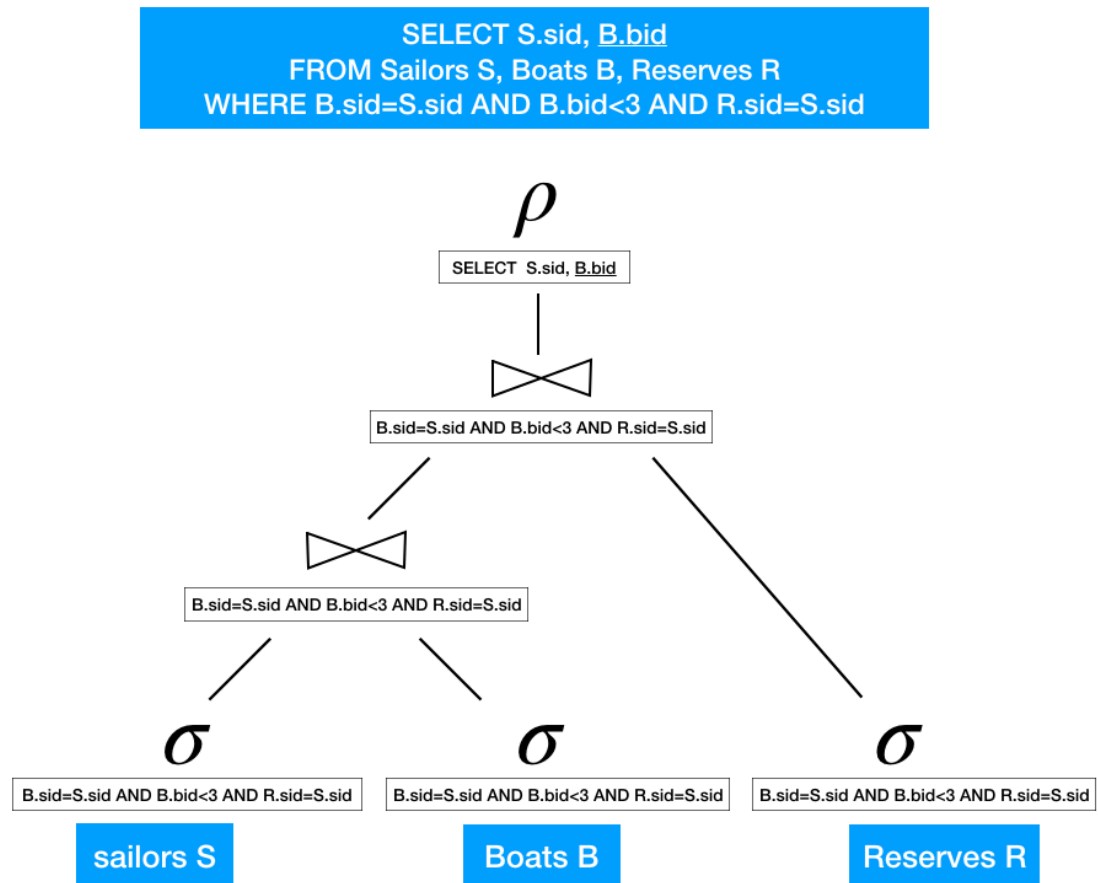B.sid=S.sid AND B.bid<3 AND R.sid=S.sid

Reserves R

Interpreter
call
QueryFactory:

Operator structure:
SCAN
SELECT
PROJECT
JOIN
SORT
DISTINCT

Expression Evaluation: