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ECE-464 Databases HW1

Queries

1. select DISTINCT reserves.bid, boats.bname, count(\*) from reserves inner join boats using(bid) group by reserves.bid;Text

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2. select s.sname, s.sid from sailors s where not exists (select b.bid from boats b where b.color = 'red' and not exists (select \* from reserves r where r.bid = b.bid and r.sid = s.sid));
3. select distinct s.sid, s.sname from sailors s, reserves r, boats b where r.bid = b.bid and s.sid = r.sid and b.color = "red" and s.sid not in(select s.sid from sailors s, reserves r, boats b where s.sid=r.sid and r.bid=b.bid and b.color != "red");

Text

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1. select boats.bid, boats.bname, count(\*) from boats inner join reserves using(bid) group by boats.bid order by count(\*) desc limit 1;

Text

Description automatically generated

1. select sid, sname from sailors where not exists(select \* from reserves where reserves.sid=sailors.sid and reserves.bid in (select bid from boats where color='red'));

Text

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1. select avg(age) from sailors where rating=10;Text

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2. select rating, sname, sid, age from (select rating, sid, sname, age, rank() over (partition by rating order by age) as r from sailors) as t where r=1;

A picture containing text, scoreboard

Description automatically generated

1. select sid, sname, bid, c from (select sid, sname, bid, c, rank() over (partition by bid order by c desc) as rnk from (select s.sid, s.sname, b.bid, count(\*) as c from sailors s, reserves r, boats b where b.bid = r.bid and s.sid = r.sid group by b.bid, s.sid) as t\_1 ) as t\_2 where rnk = 1;

A picture containing text, scoreboard

Description automatically generated