COMP 3005 A3

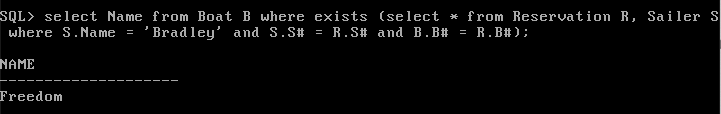
Part 1

1. {BNAME | (exists SNAME, S, B)( Sailer( S, SNAME, \_) and Boat(B, BNAME, \_) and Reservation(S, B, \_) and SNAME = ‘Bradley’)};
2. {SNAME | (exists B, S, SNAME) (Boat(B, ‘Paradise’, \_) and Reservation(S, B, \_) and Sailer(S,SNAME, \_)};
3. {SNAME | (exists S)(Sailer(S, SNAME,\_) and not Reservation(S,\_,\_)};
4. \*{SNAME1, SNAME2 |( existsS, S1, B) )( Sailer( S, SNAME, \_) and Boat(B, BNAME, \_) and Reservation(S, B, \_) and )};
5. {SNAME | (exists S)(Sailer(S, SNAME, \_) and (forall B)(Boat(B,\_, \_) and Reservation(S, B, \_))};
6. {SNAME | (exists S)(Sailer(S, SNAME, \_) and (forall B)(exists BNAME)(Boat(B,BNAME, \_) and ((BNAME = ‘Splendor’ and not (Reservation(S, B, \_))) or (BNAME != ‘Splendor’ and Reservation(S,B, \_)))};
7. {SNAME | (exists S, S’)(Sailer(S, ‘Bradley’, \_) and Sailer(S’, SNAME, \_) and SNAME != ‘Bradley’and (forall B)(Boat(B, \_, \_) and Reservation(S, B, \_) and Reservation(S’, B, \_) or not Reservation(S, B, \_)))};
8. {SNAME | (exists S, S’)(Sailer(S, ‘Bradley’, \_) and Sailer(S’, SNAME, \_) and SNAME != ‘Bradley’and (forall B)(Boat(B, \_, \_) and Reservation(S, B, \_) and Reservation(S’, B, \_) or (not Reservation(S, B, \_) and not Reservation(S’, B, \_)))};
9. {SNAME, count(\*) | (exists S)(Sailer(S, SNAME, \_) and Reservation(S, \_, \_))};
10. T(SNAME, B) := {S, COUNT(\*) | (exists S)(Sailer(S, SNAME, \_) and Reservation(S, \_, \_))};

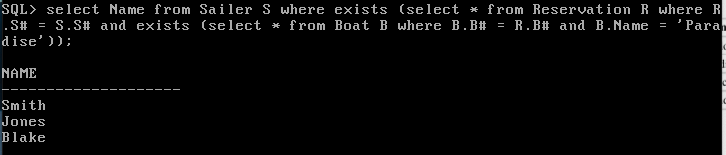
{S | (exists B)(T(S, B) and B > 2)};

Part 2

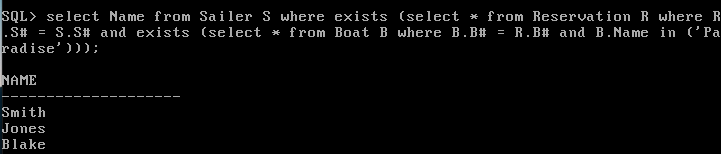
1. select Name from Boat B where exists (select \* from Reservation R, Sailer S where S.Name = ‘Bradley’ and S.S# = R.S# and B.B# = R.B#);



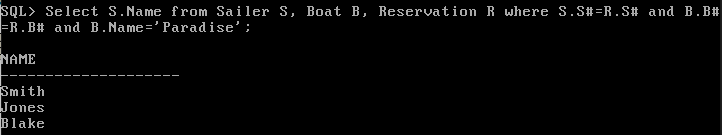
2. select Name from Sailer S where exists (select \* from Reservation R where R.S# = S.S# and exists (select \* from Boat B where B.B# = R.B# and B.Name = ‘Paradise’));



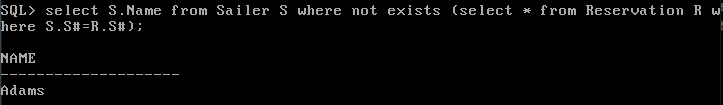
3. select Name from Sailer S where exists (select \* from Reservation R where R.S# = S.S# and exists (select \* from Boat B where B.B# = R.B# and B.Name in (‘Paradise’)));



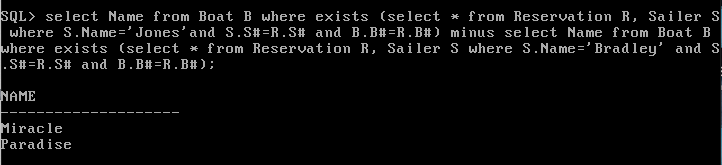
4. select S.Name from Sailer S, Boat B, Reservation R where S.S#=R.S# and B.B#=R.B# and B.Name=’Paradise’;



5. select S.Name from Sailer S where not exists (select \* from Reservation R where S.S#=R.S#);

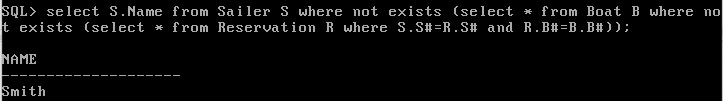


6. select Name from Boat B where exists (select \* from Reservation R, Sailer S where S.Name=’Jones’ and S.S#=R.S# and B.B#=R.B#) minus select Name from Boat B where exists (select \* from Reservation R, Sailer S where S.Name=’Bradley’ and S.S#=R.S# and B.B#=R.B#);

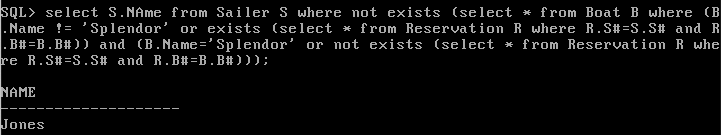


7.

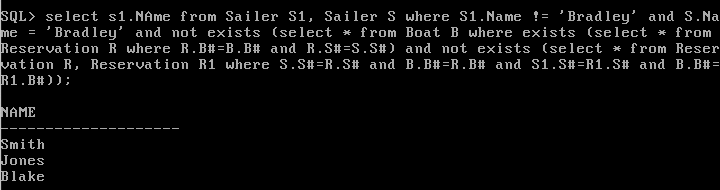
8. select S.Name from Sailer S where not exists (select \* from Boat B where not exists (select \* from Reservation R where S.S#=R.S# and R.B#=B.B#));



9. select S.Name from Sailer S where not exists (select \* from Boat B where (B.Name != ‘Splendor’ or exists (select \* from Reservation R where R.S#=S.S# and R.B#=B.B#)) and (B.Name=’Splendor’ or not exists (select \* from Reservation R where R.S#=S.S# and R.B#=B.B#)));



10. select s1.Name from Sailer S1, Sailer S where S1.Name != ‘Bradley’ and S.Name = ‘Bradley’ and not exists (select \* from Boat B where exists (select \* from Reservation R where R.B#=B.B# and R.S#=S.S#) and not exists (select \* from Reservation R, Reservation R1 where S.S#=R.S# and B.B#=R.B# and S1.S#=R1.S# and B.B#=R1.B#));

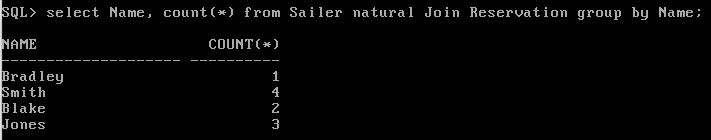


11. select S1.Name from Sailer S1, Sailer S where S1.Name != ‘Bradley’ and S.Name = ‘Bradley’ and not exists (select \* from Boat B where not exists (select \* from Reservation R, Reservation R1 where S.S#=R.S# and R.B#=B.B# and S1.S#=R1.S# and R1.B#=B.B#)

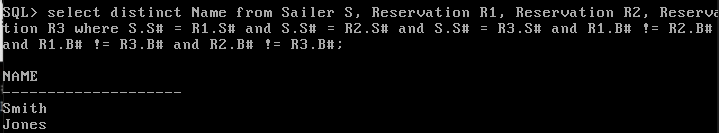
and exists

(select \* from Reservation R where (S.S# = R.S# and R.B# = B.B#) or (S1.S#=R.S# and R.B# = B.B#)));

12. select Name, count(\*) from Sailer natural Join Reservation group by Name;



13. select distinct Name from Sailer S, Reservation R1, Reservation R2, Reservation R3 where S.S# = R1.S# and S.S# = R2.S# and S.S# =R3.S# and R1.B# != R2.B# and R1.B# != R3.B# and R2.B# != R3.B#;



14. select Name from Sailer natural Join Reservation group by Name having count(\*) > 2;



15. select \* from Sailer full outer join Reservation using (S#) full outer join Boat using (B#);

\*Not sure why its printing like this.

16. select Name, count(Day) from Reservation Natural full outer join Sailer group by Name;