ASSIGNMNET-5

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CODE- for creating tables name sailor, Reserve, Boat respectively

```
create table sailor(
   sid int(11), sname varchar(11), rating int(11), age real(11)
);

insert into sailor(sid, sname, rating, age)values(1, "varun",9, 21);
insert into sailor(sid, sname, rating, age)values(2, "karan",10, 20);
insert into sailor(sid, sname, rating, age)values(3, "harsh",15, 19);
insert into sailor(sid, sname, rating, age)values(4, "rahul",20, 22);

create table Reserve(
   sid int(11), bid int(11), day date(11)
);

insert into Reserve(sid, bid, day)values(2, 102, 1-2-12);
insert into Reserve(sid, bid, day)values(3, 103, 4-12-12);
insert into Reserve(sid, bid, day)values(1, 104, 5-6-12);
insert into Reserve(sid, bid, day)values(4, 105, 6-3-12);

create table Boat(
bid int(11), bname varchar(11), color varchar(11)
);
```

insert into Boat(bid, bname, color)values(102, "b1", "red");

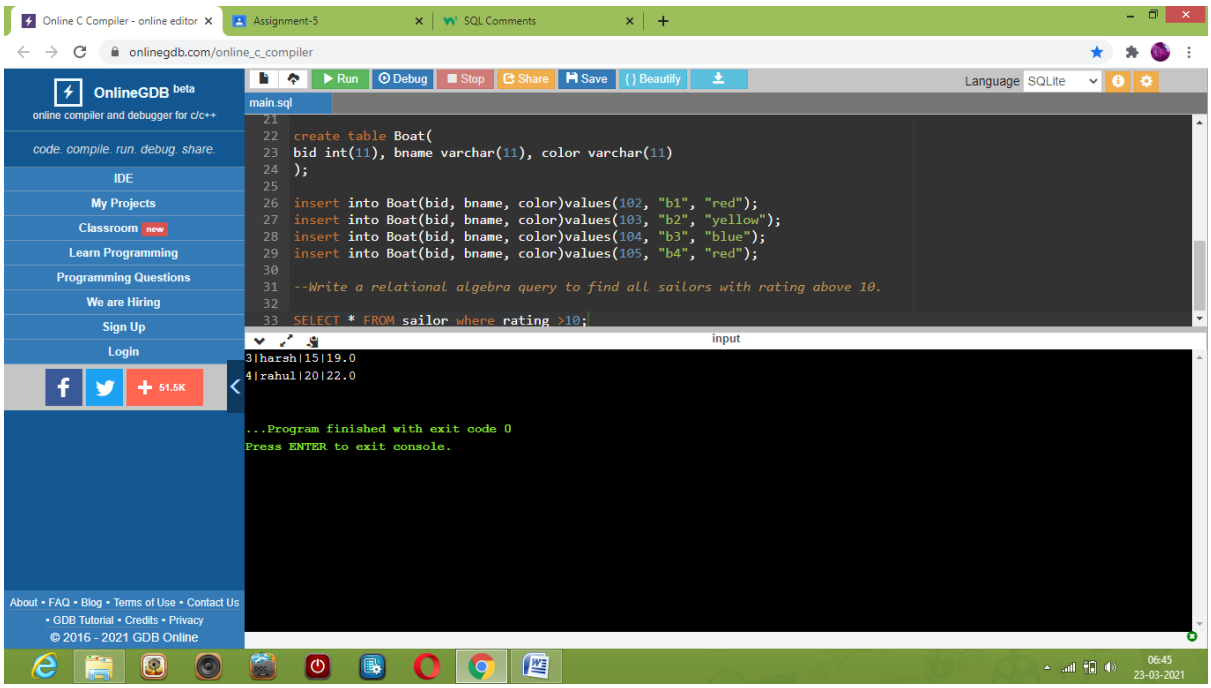
insert into Boat(bid, bname, color)values(103, "b2", "yellow");

insert into Boat(bid, bname, color)values(104, "b3", "blue");

insert into Boat(bid, bname, color)values(105, "b4", "red");

1) --Write a relational algebra query to find all sailors with rating above 10.

QUERY ---- SELECT * FROM sailor where rating >10;



2) --Write a relational algebra query to find the name of sailors who have not reserved a red boat.

Select sailor.sname

from((sailor

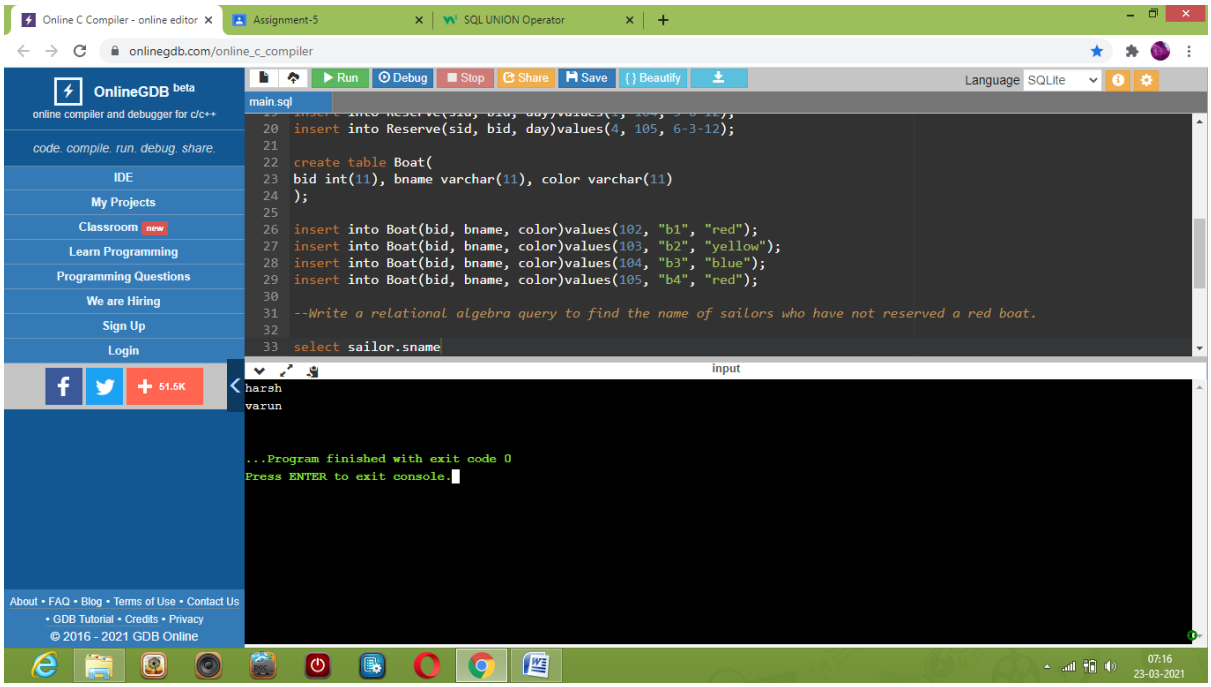
inner join Reserve

ON sailor.sid=Reserve.sid)

inner join Boat

On Reserve.bid=Boat.bid)

WHERE NOT color ="red";



3) -Write relational algebra query to find sailors who have reserved boat number 105.

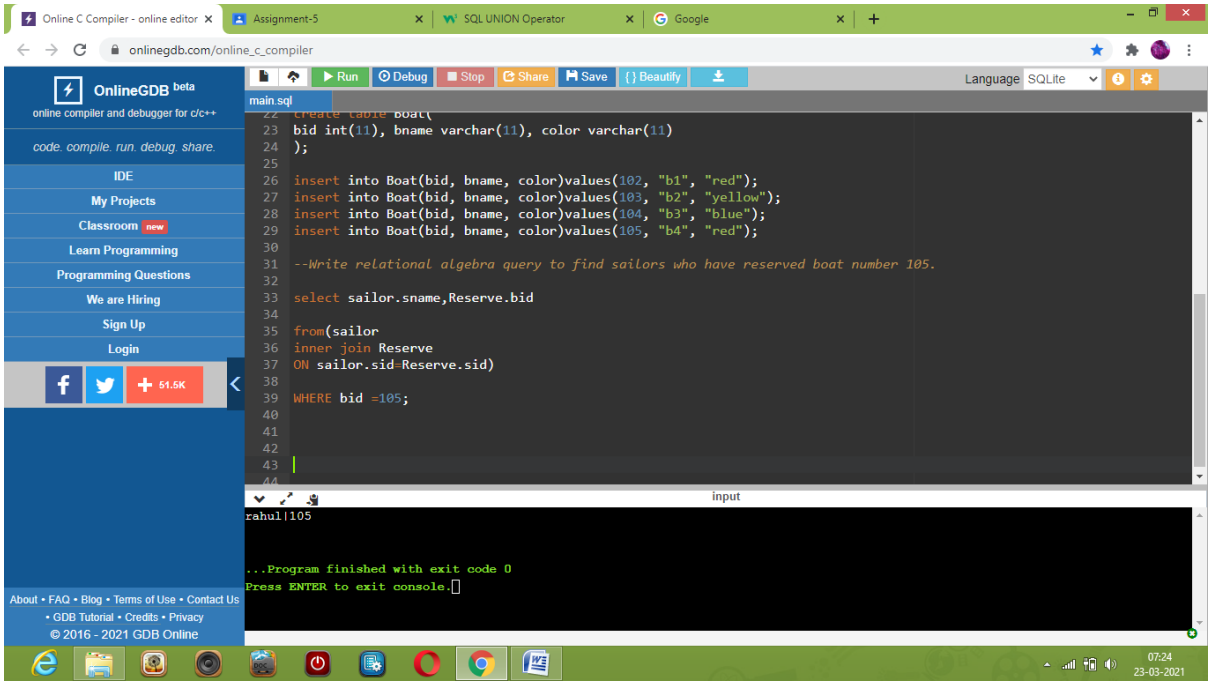
select sailor.sname,Reserve.bid

from(sailor

inner join Reserve

ON sailor.sid=Reserve.sid)

WHERE bid =105;



4) --Write relational algebra query to find the sid of sailors who have reserved red or yellow boats

select sailor.sid

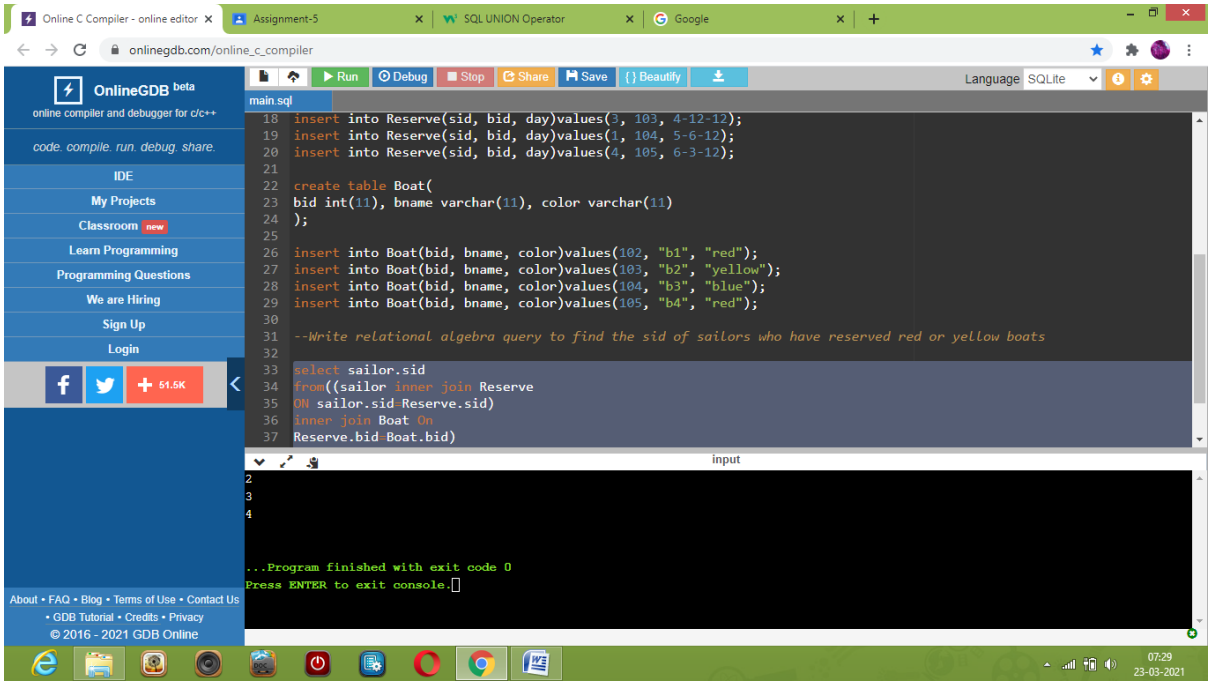
from((sailor inner join Reserve

ON sailor.sid=Reserve.sid)

inner join Boat On

Reserve.bid=Boat.bid)

WHERE color="red" or color="yellow";



5) --Write relational algebra query to find the name of sailors who have reserved at least one boat