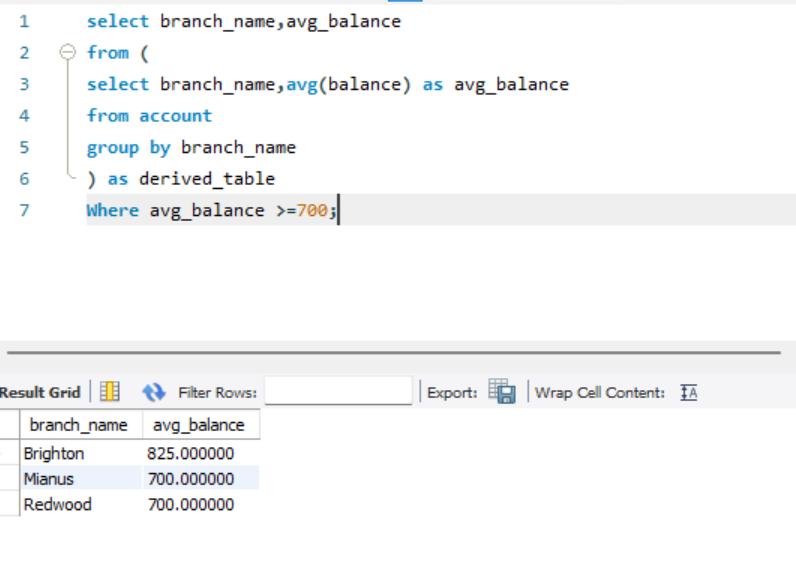
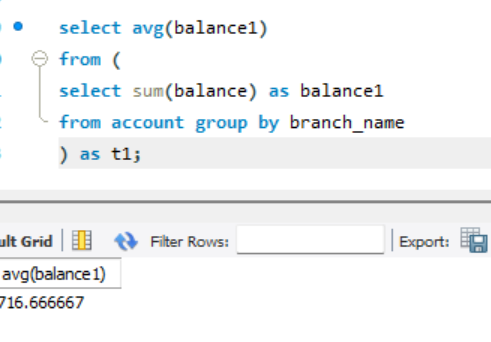
S20230010225 LAB6(DBMS)

## Scerenshots and queries

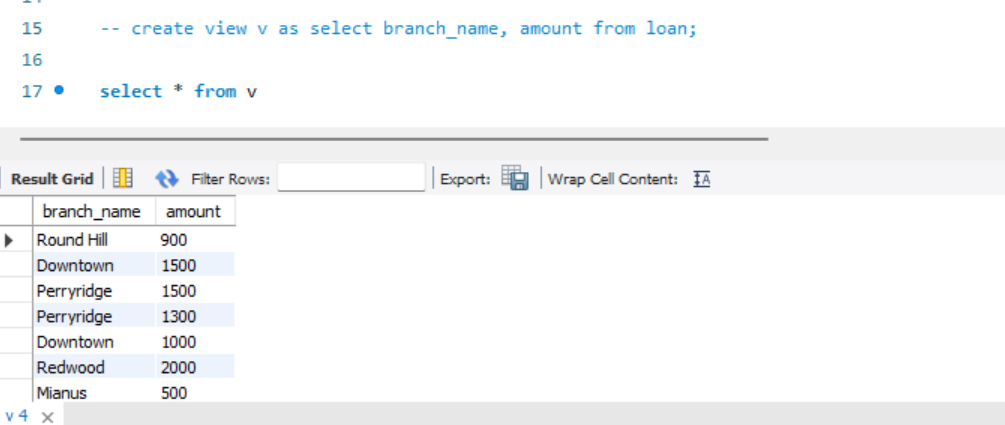
Derived tables 1



Derived tables 2

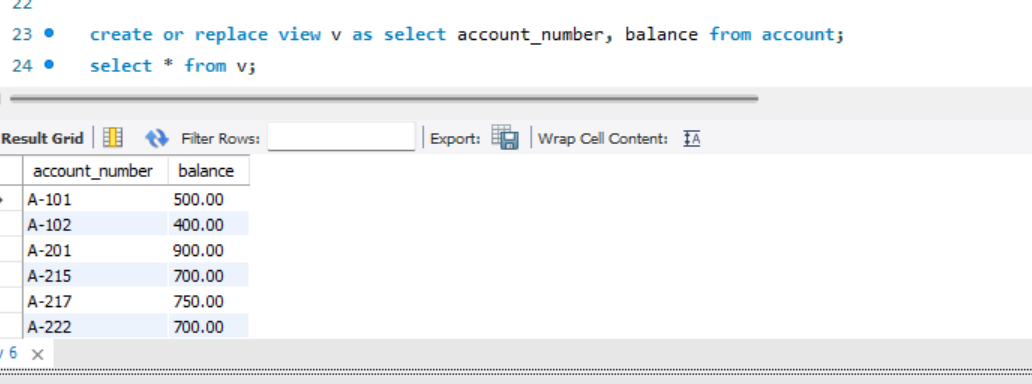


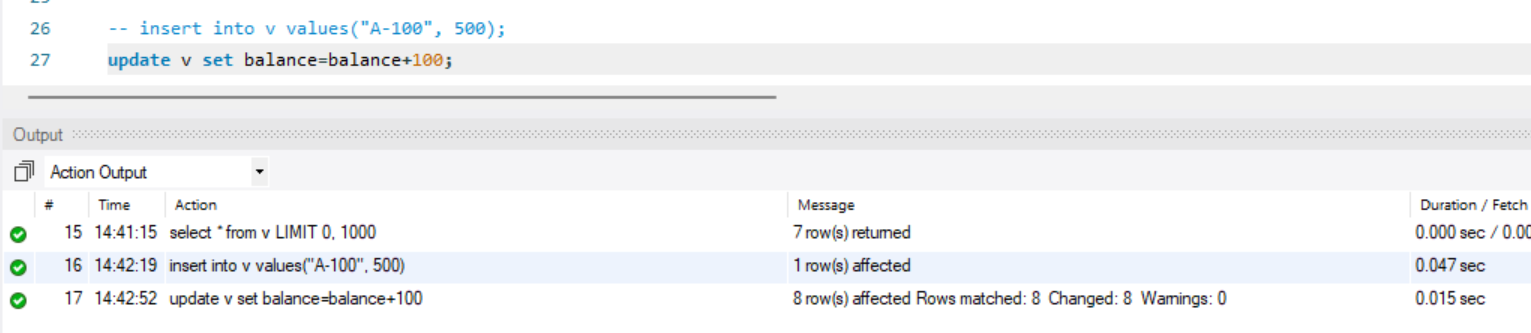
Views cretaion



Views deletion, updation

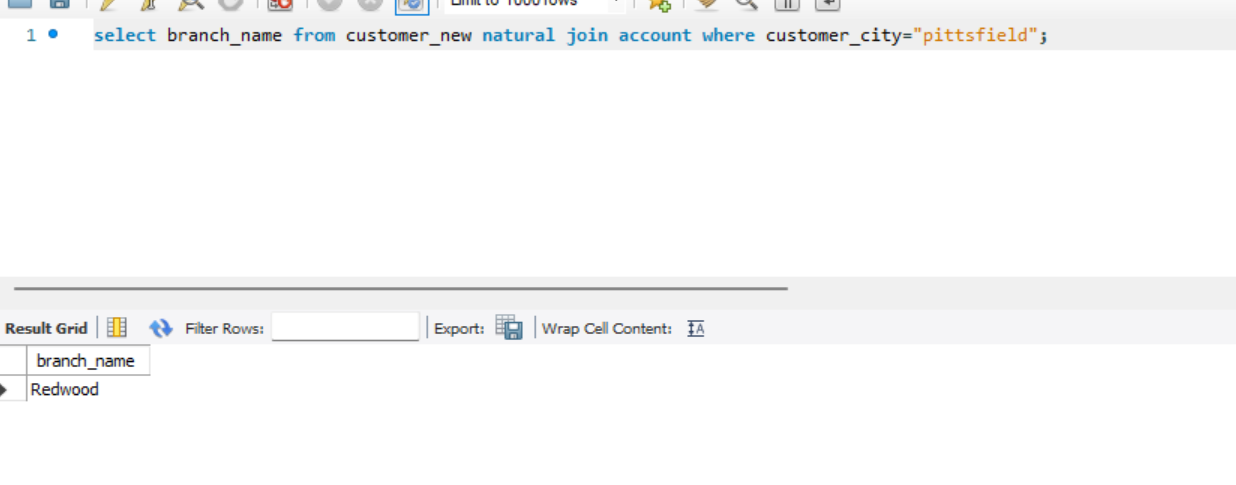


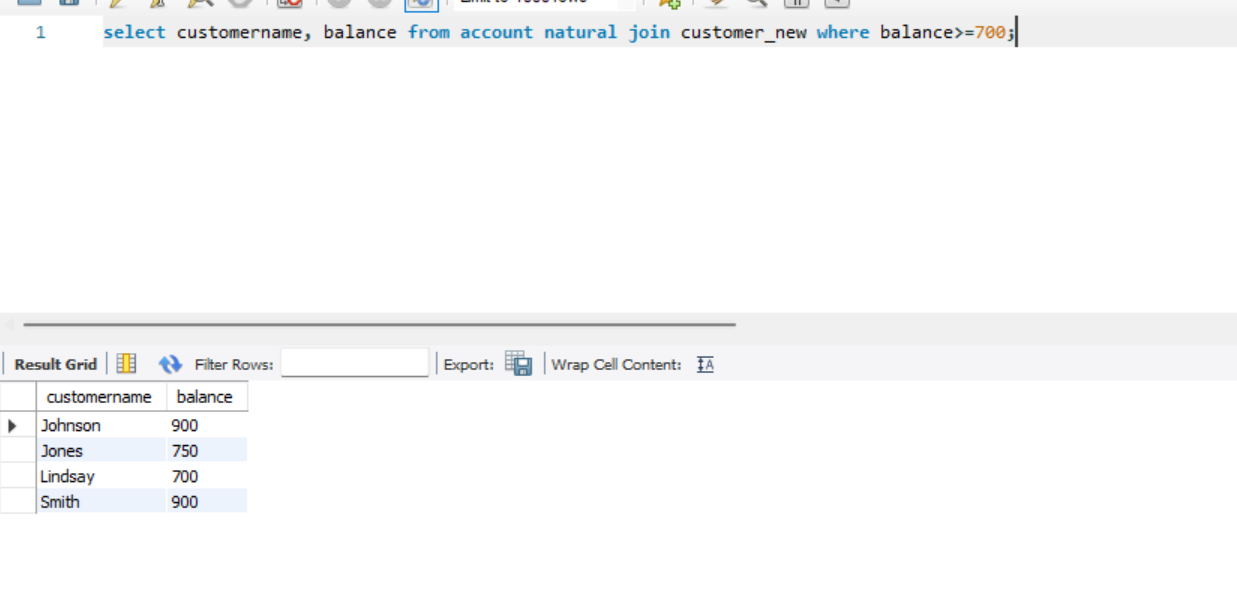




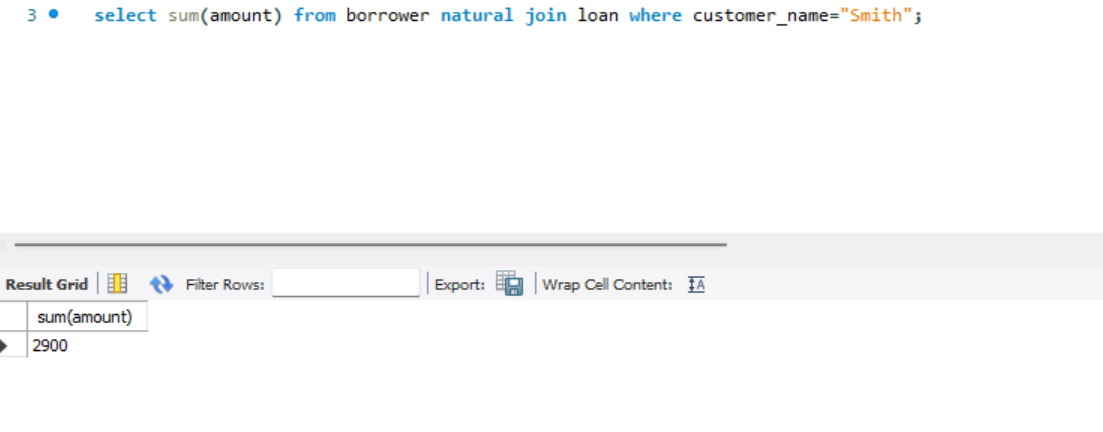
Practice questions(ungraded ones)

1.

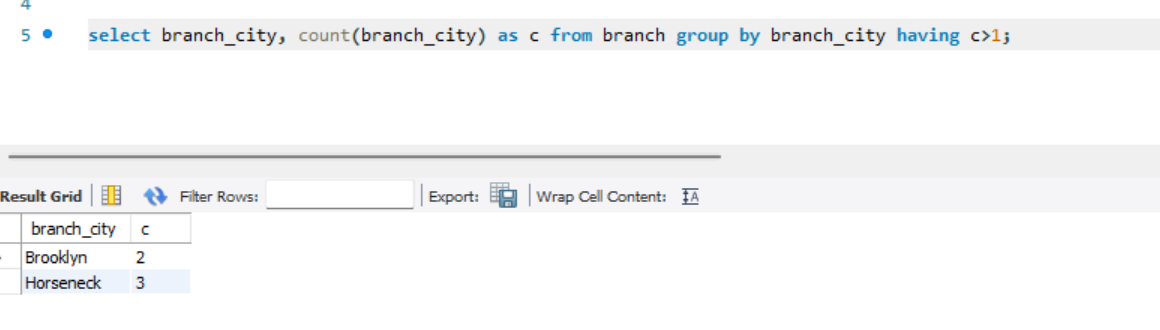
2.



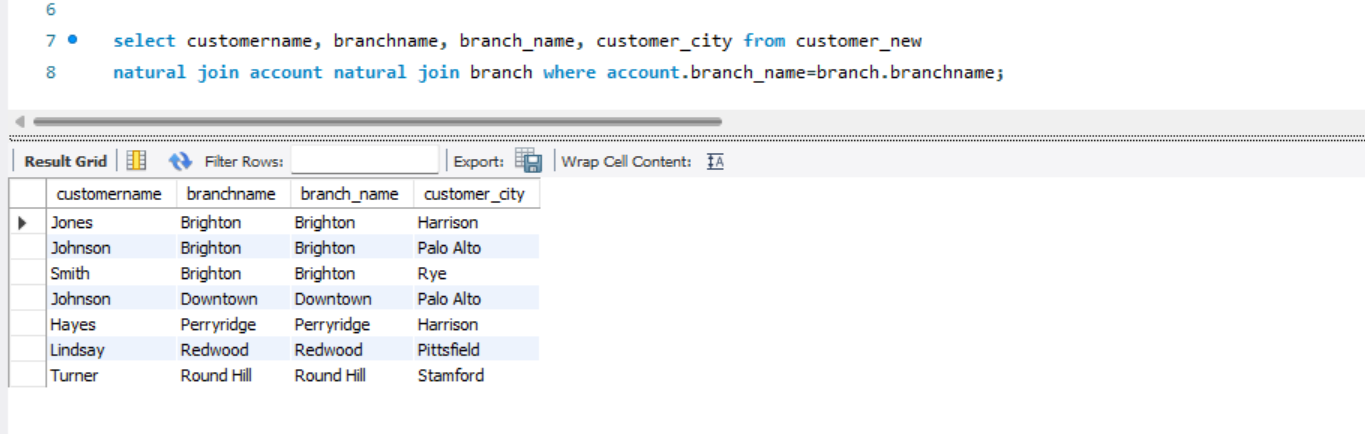
3.



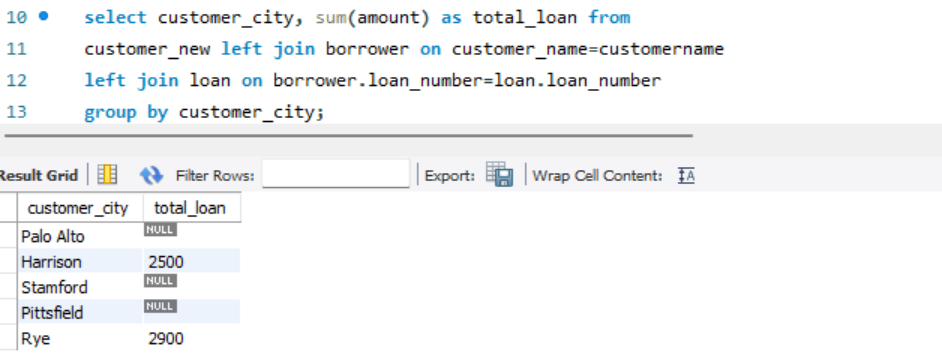
4.



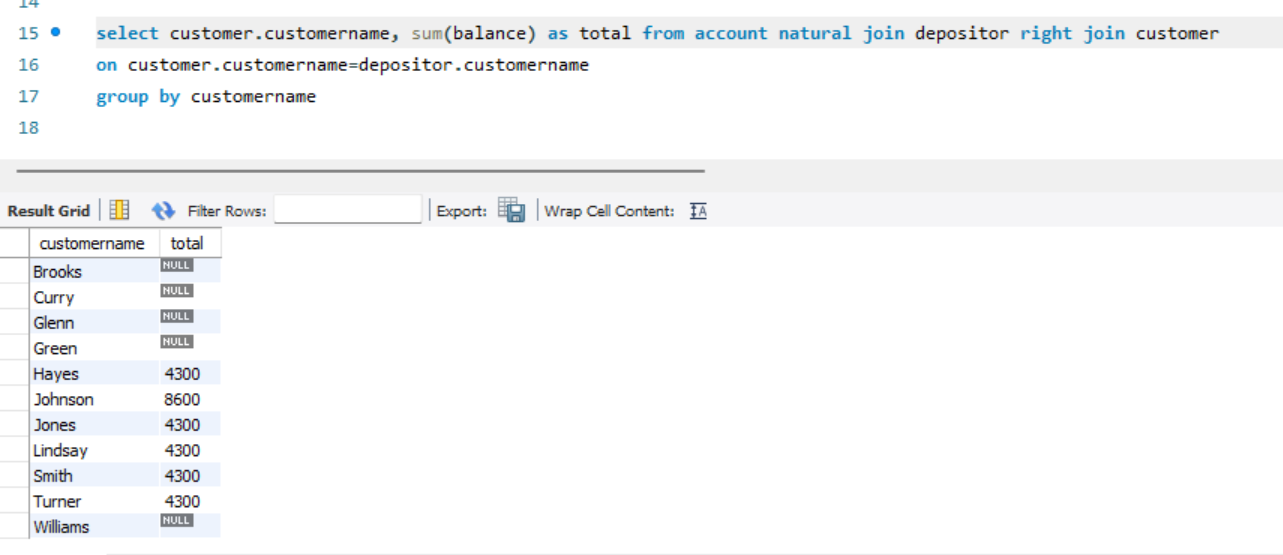
5.



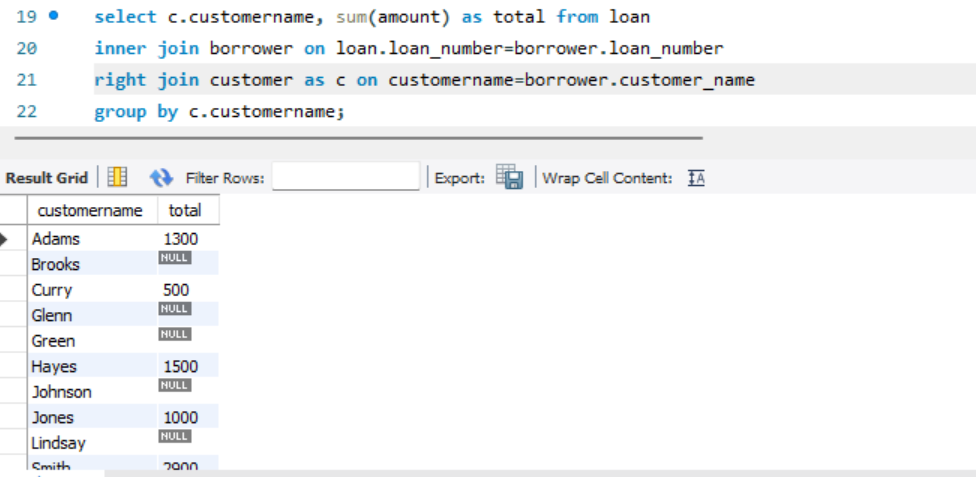
6.



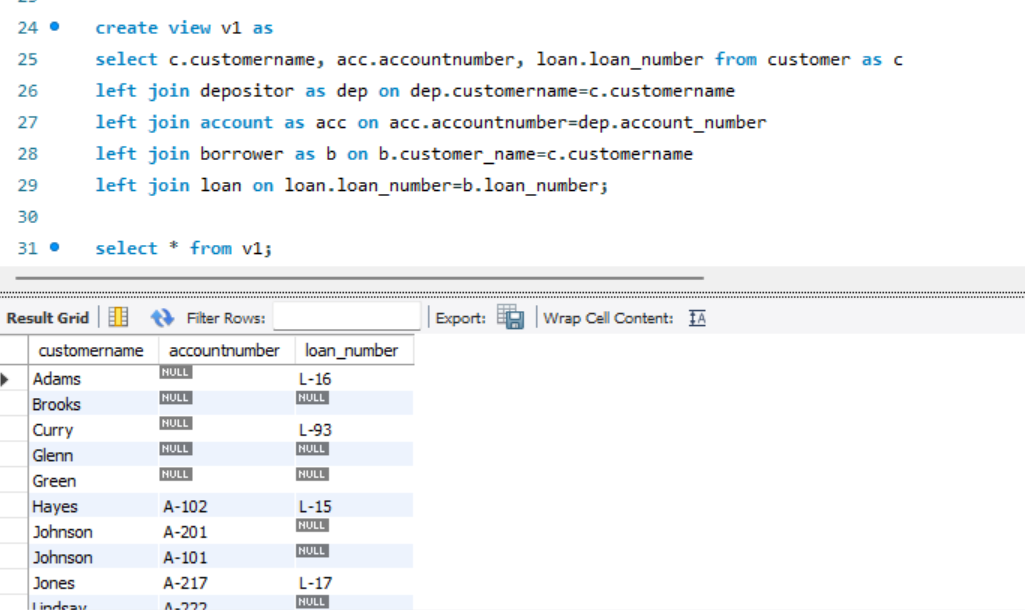
7.



8.



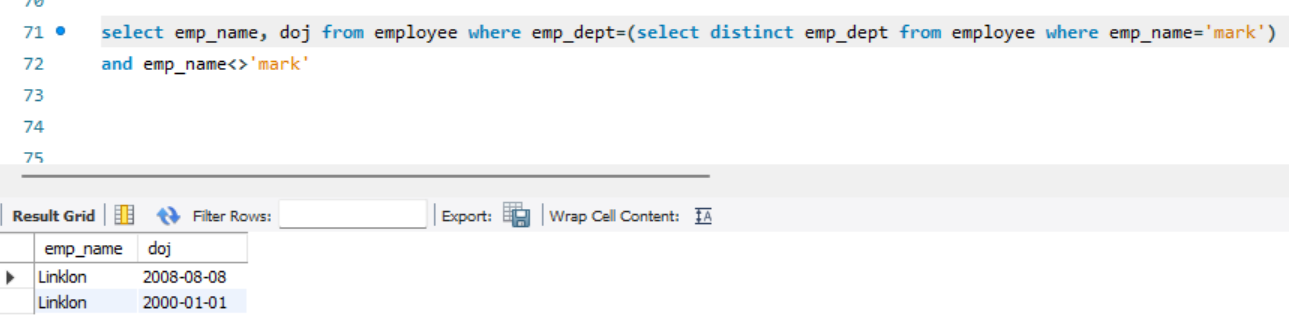
9.



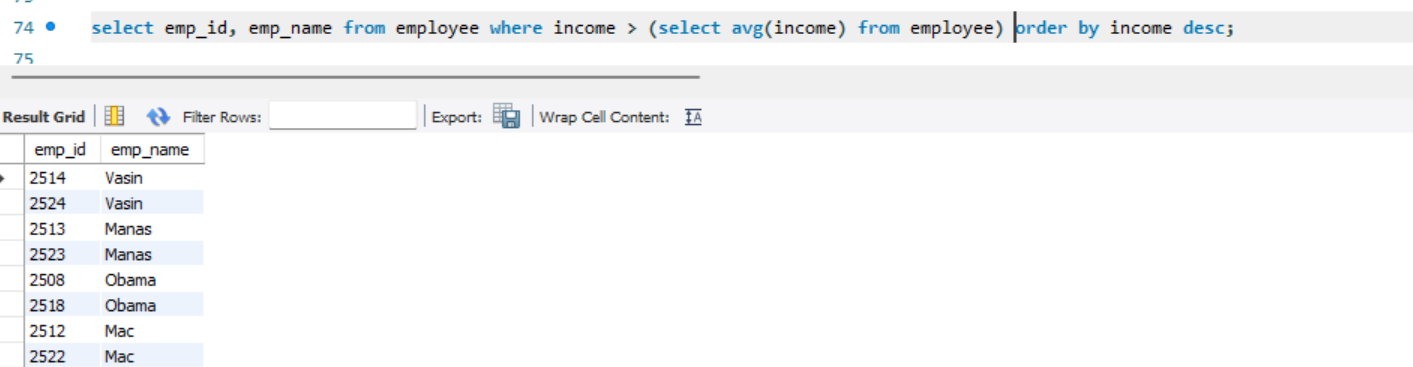
10. Question is unclear.

Assignment questions part 1:

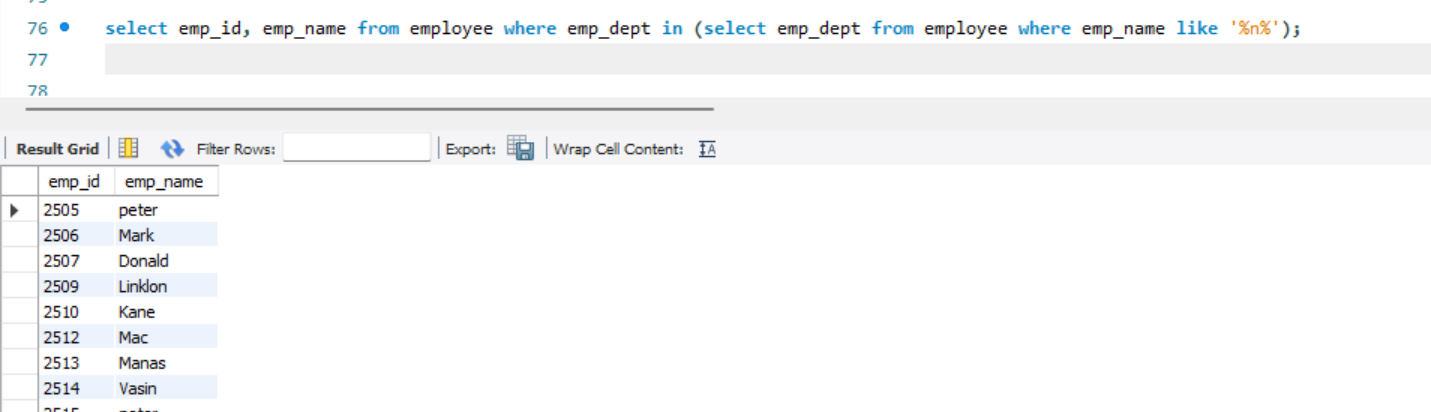
Q1;



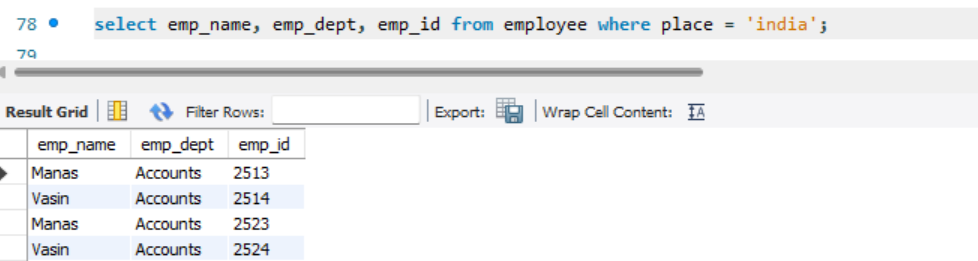
Q2



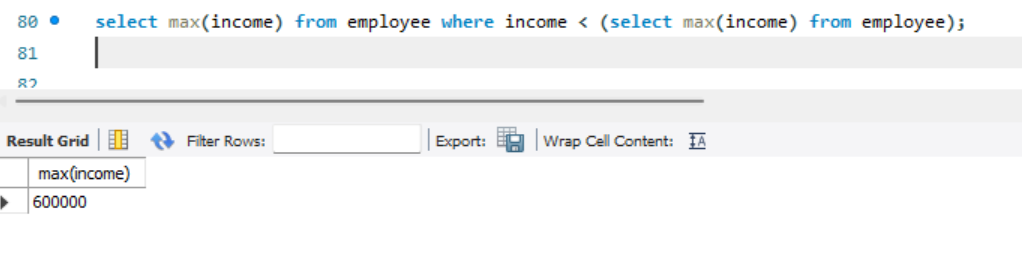
Q3



Q4

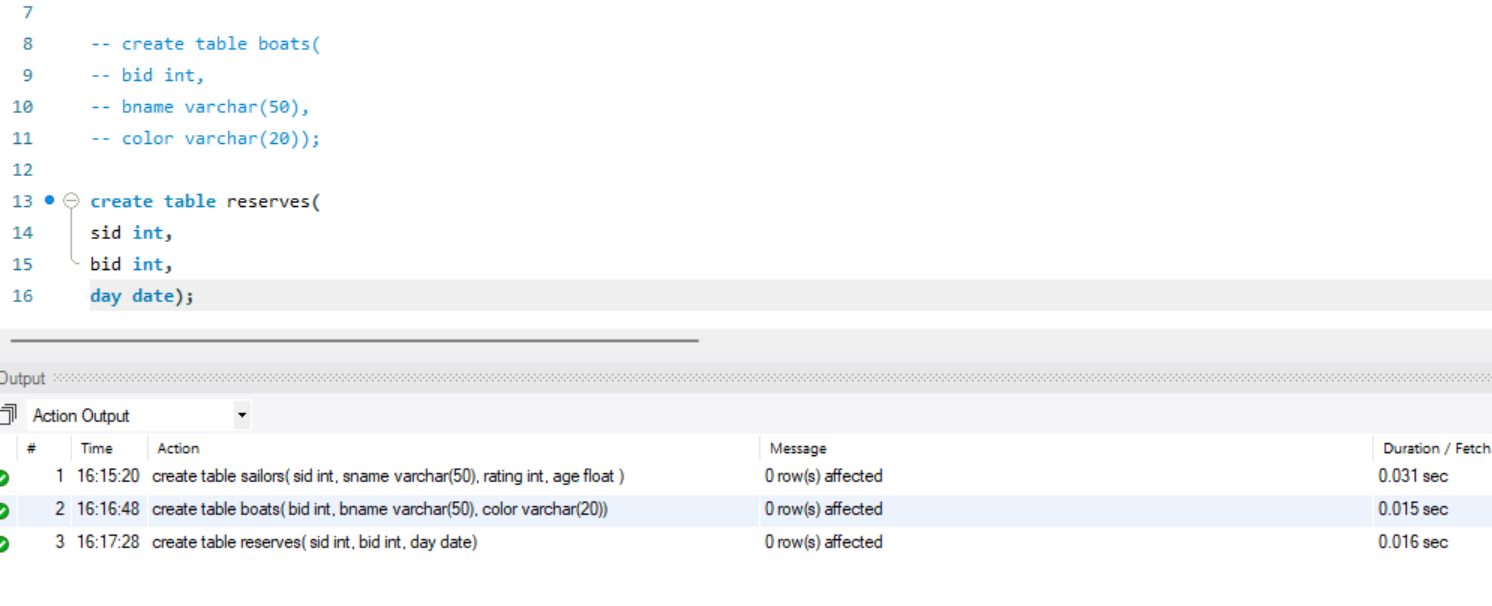


Q5

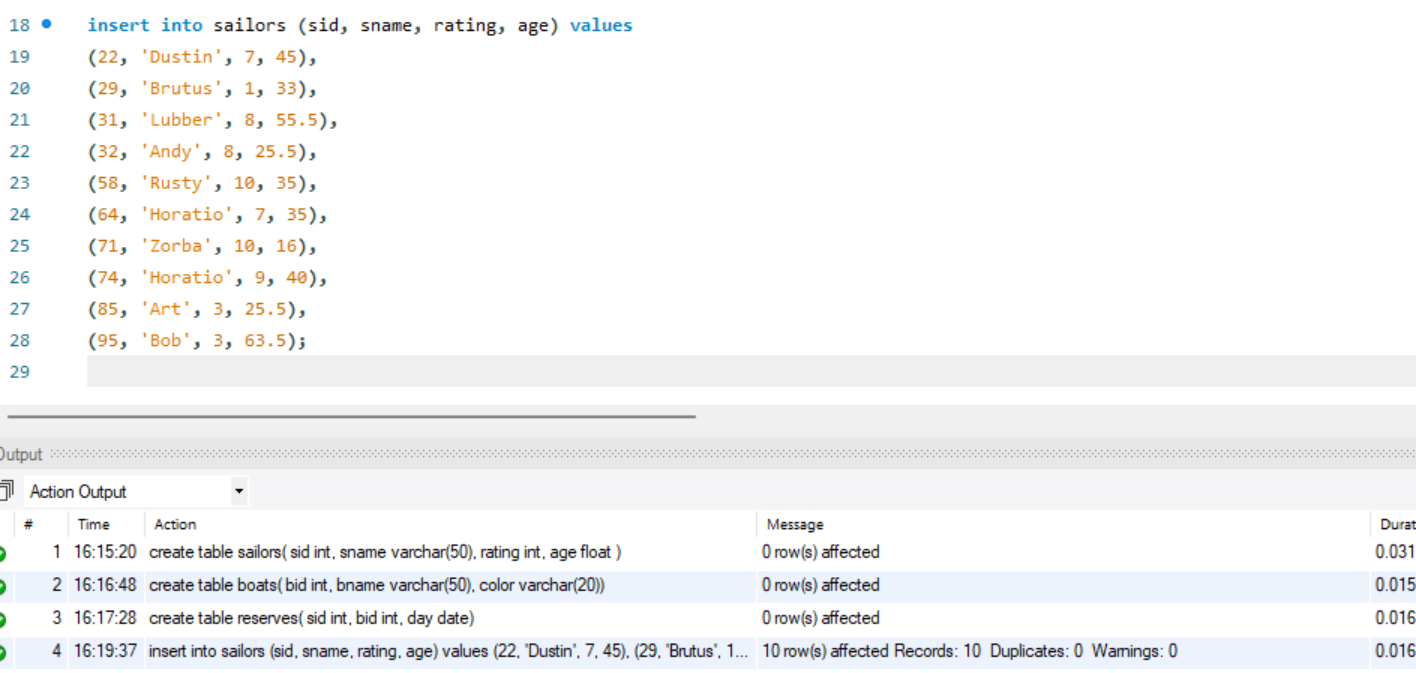
****

Assignment questions part 2(1-10)

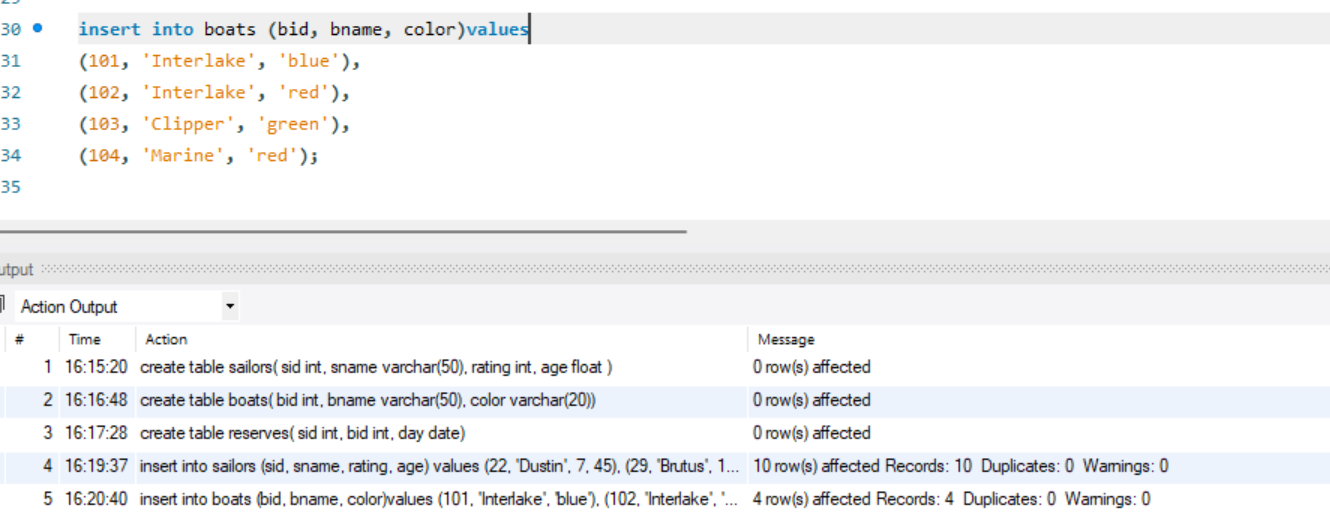
Create table:



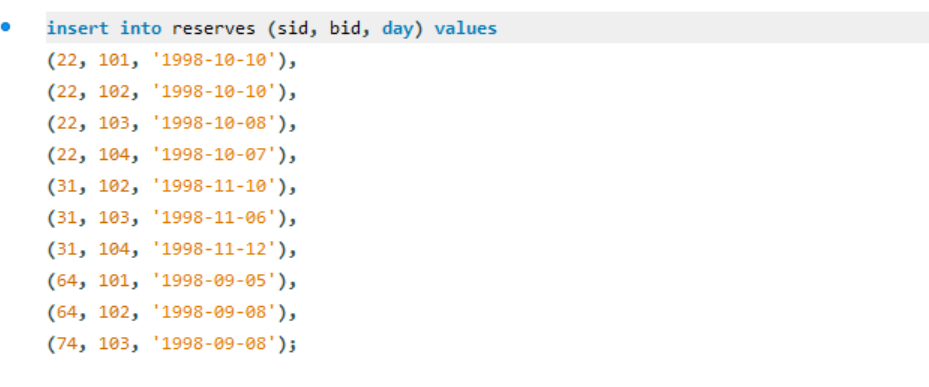
Insert into sailors



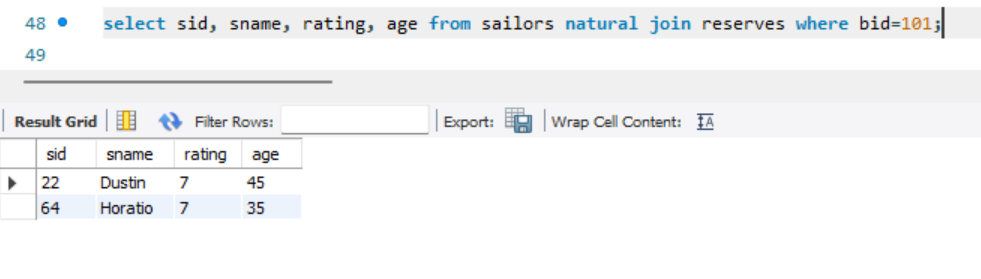
Insert into boats



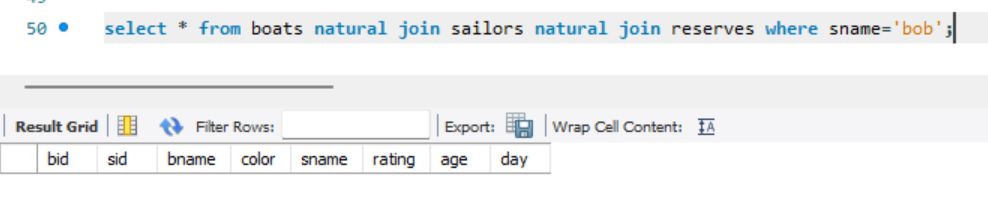
Insert into reserves



Q1



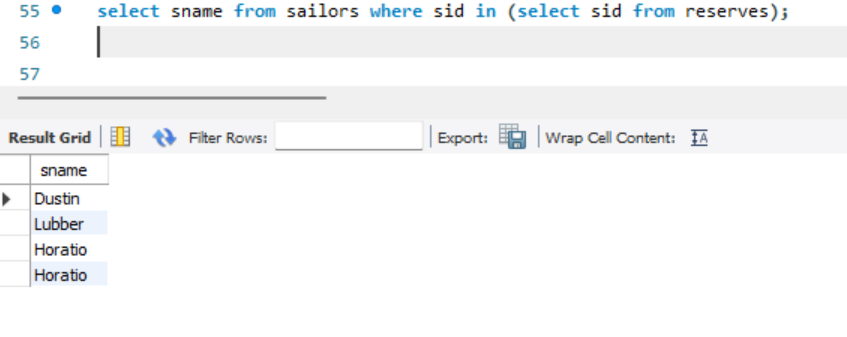
Q2



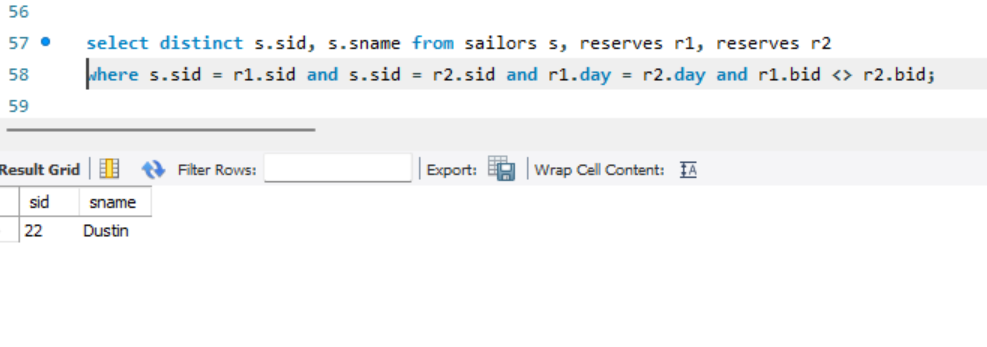
Q3



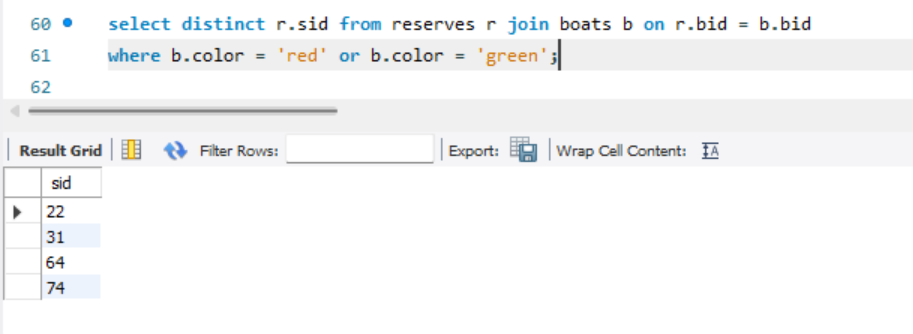
Q4



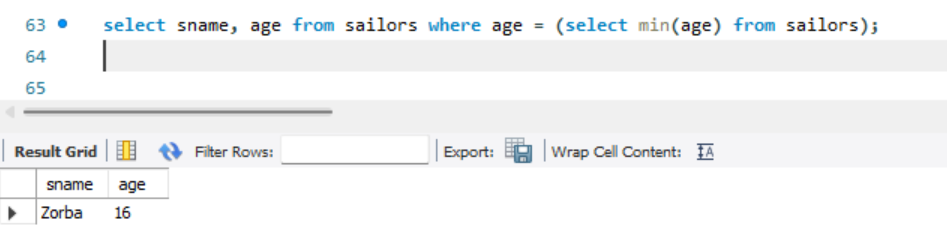
Q5



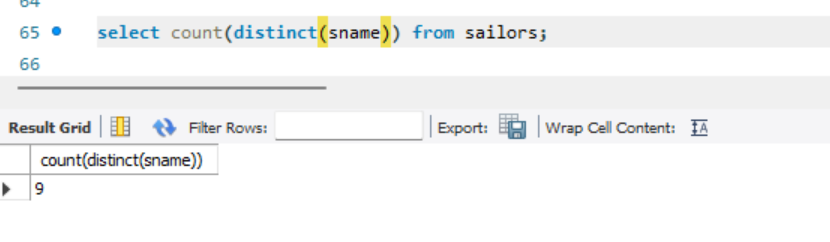
Q6



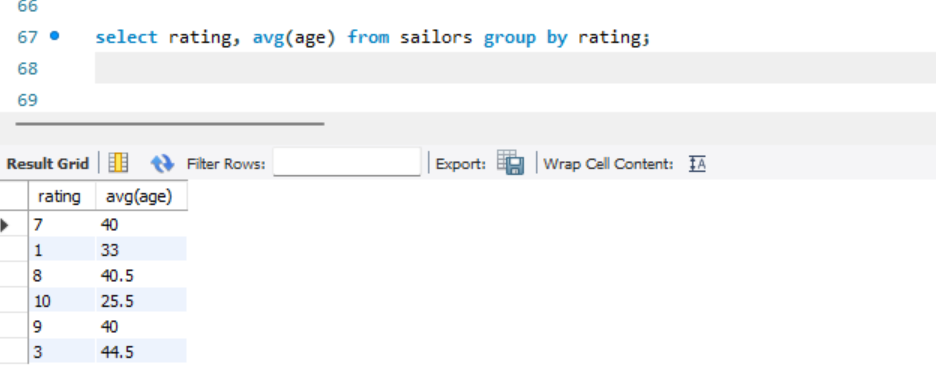
Q7



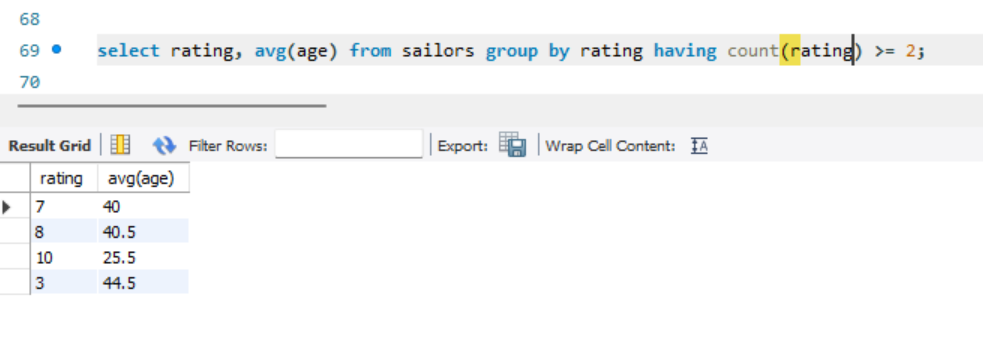
Q8



Q9



Q10



SQL code:

-- create table sailors(

-- sid int,

-- sname varchar(50),

-- rating int,

-- age float

-- );

-- create table boats(

-- bid int,

-- bname varchar(50),

-- color varchar(20));

-- create table reserves(

-- sid int,

-- bid int,

-- day date);

-- insert into sailors (sid, sname, rating, age) values

-- (22, 'Dustin', 7, 45),

-- (29, 'Brutus', 1, 33),

-- (31, 'Lubber', 8, 55.5),

-- (32, 'Andy', 8, 25.5),

-- (58, 'Rusty', 10, 35),

-- (64, 'Horatio', 7, 35),

-- (71, 'Zorba', 10, 16),

-- (74, 'Horatio', 9, 40),

-- (85, 'Art', 3, 25.5),

-- (95, 'Bob', 3, 63.5);

-- insert into boats (bid, bname, color)values

-- (101, 'Interlake', 'blue'),

-- (102, 'Interlake', 'red'),

-- (103, 'Clipper', 'green'),

-- (104, 'Marine', 'red');

-- insert into reserves (sid, bid, day) values

-- (22, 101, '1998-10-10'),

-- (22, 102, '1998-10-10'),

-- (22, 103, '1998-10-08'),

-- (22, 104, '1998-10-07'),

-- (31, 102, '1998-11-10'),

-- (31, 103, '1998-11-06'),

-- (31, 104, '1998-11-12'),

-- (64, 101, '1998-09-05'),

-- (64, 102, '1998-09-08'),

-- (74, 103, '1998-09-08');

-- select sid, sname, rating, age from sailors natural join reserves where bid=101;

-- select \* from boats natural join sailors natural join reserves where sname='bob';

-- select sname from sailors natural join reserves natural join boats

-- where color='red' order by age;

-- select sname from sailors where sid in (select sid from reserves);

-- select distinct s.sid, s.sname from sailors s, reserves r1, reserves r2

-- where s.sid = r1.sid and s.sid = r2.sid and r1.day = r2.day and r1.bid <> r2.bid;

-- select distinct r.sid from reserves r join boats b on r.bid = b.bid

-- where b.color = 'red' or b.color = 'green';

-- select sname, age from sailors where age = (select min(age) from sailors);

-- select count(distinct(sname)) from sailors;

-- select rating, avg(age) from sailors group by rating;

-- select rating, avg(age) from sailors group by rating having count(rating) >= 2;

-- select emp\_name, doj from employee where emp\_dept=(select distinct emp\_dept from employee where emp\_name='mark')

-- and emp\_name<>'mark'

-- select emp\_id, emp\_name from employee where income > (select avg(income) from employee) order by income desc;

-- select emp\_id, emp\_name from employee where emp\_dept in (select emp\_dept from employee where emp\_name like '%n%');

-- select emp\_name, emp\_dept, emp\_id from employee where place = 'india';

-- select max(income) from employee where income < (select max(income) from employee);

Ungraded queires:

-- select customername, balance from account natural join customer\_new where balance>=700;

-- select sum(amount) from borrower natural join loan where customer\_name="Smith";

-- select branch\_city, count(branch\_city) as c from branch group by branch\_city having c>1;

-- select customername, branchname, branch\_name, customer\_city from customer\_new

-- natural join account natural join branch where account.branch\_name=branch.branchname;

-- select customer\_city, sum(amount) as total\_loan from

-- customer\_new left join borrower on customer\_name=customername

-- left join loan on borrower.loan\_number=loan.loan\_number

-- group by customer\_city;

-- select customer.customername, sum(balance) as total from account natural join depositor right join customer

-- on customer.customername=depositor.customername

-- group by customername

-- select c.customername, sum(amount) as total from loan

-- inner join borrower on loan.loan\_number=borrower.loan\_number

-- right join customer as c on customername=borrower.customer\_name

-- group by c.customername;

-- create view v1 as

-- select c.customername, acc.accountnumber, loan.loan\_number from customer as c

-- left join depositor as dep on dep.customername=c.customername

-- left join account as acc on acc.accountnumber=dep.account\_number

-- left join borrower as b on b.customer\_name=c.customername

-- left join loan on loan.loan\_number=b.loan\_number;

-- select \* from v1;