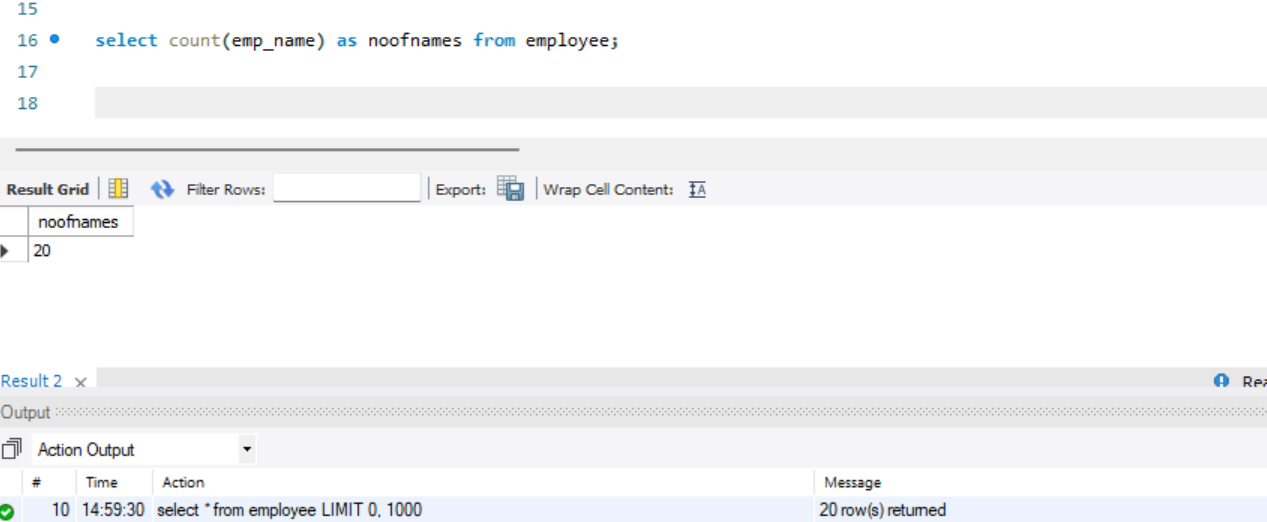
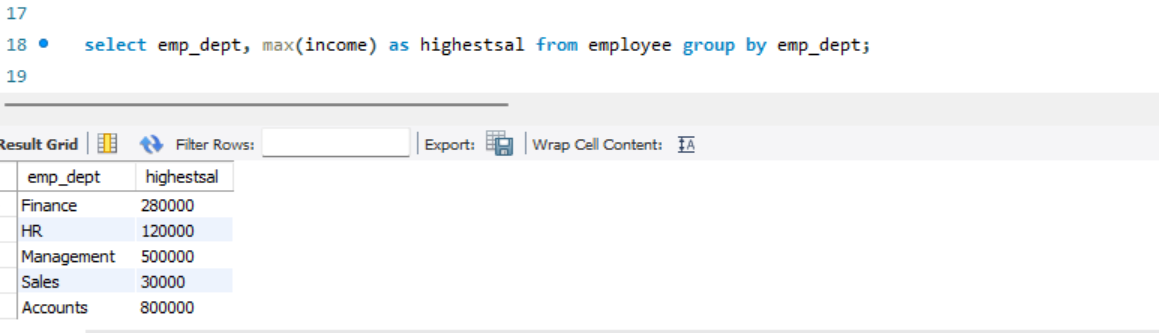
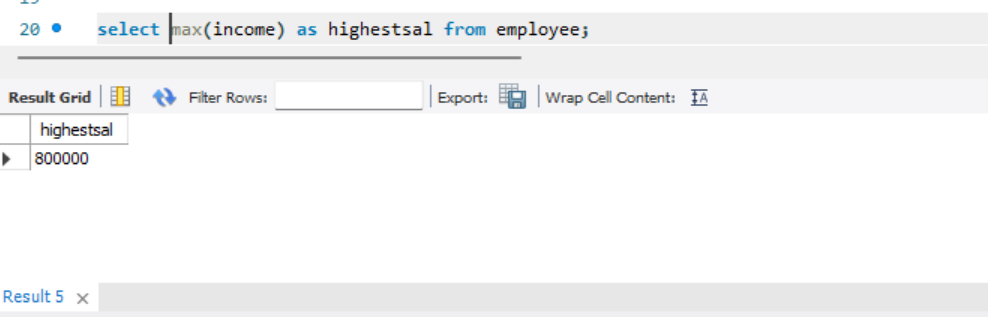
S20230010225 DBMS Lab 4

Q1a

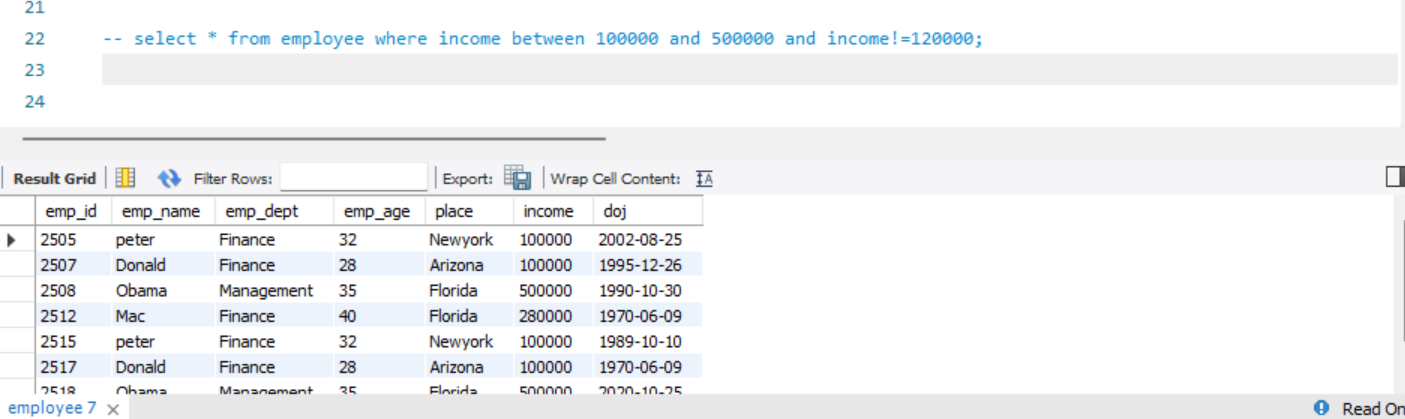


Q1b

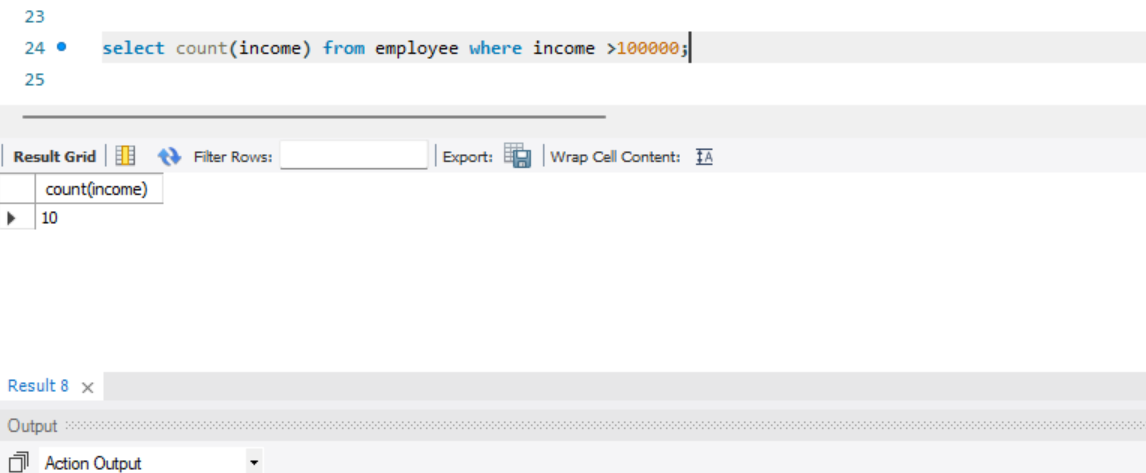




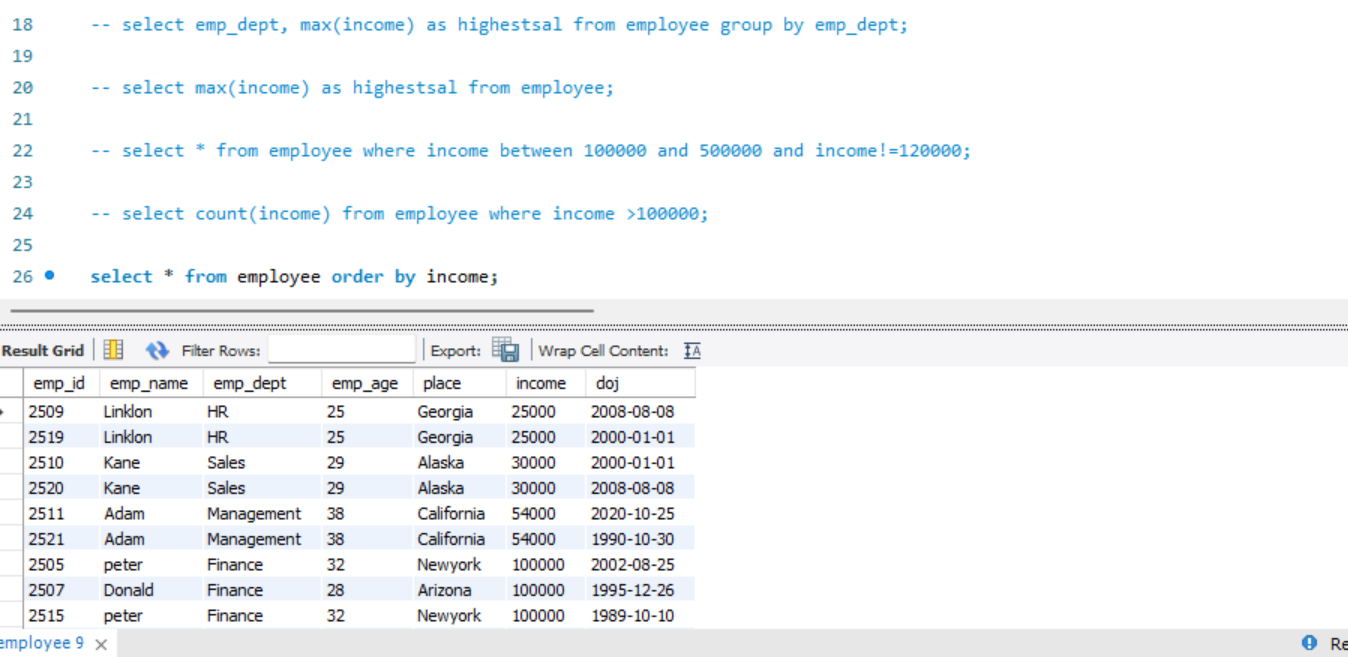
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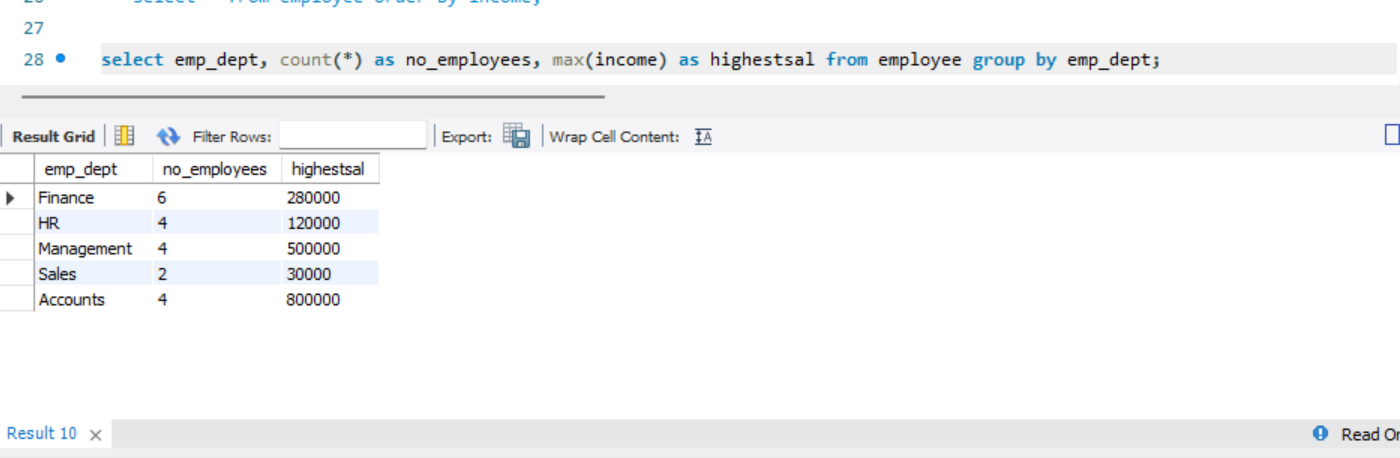
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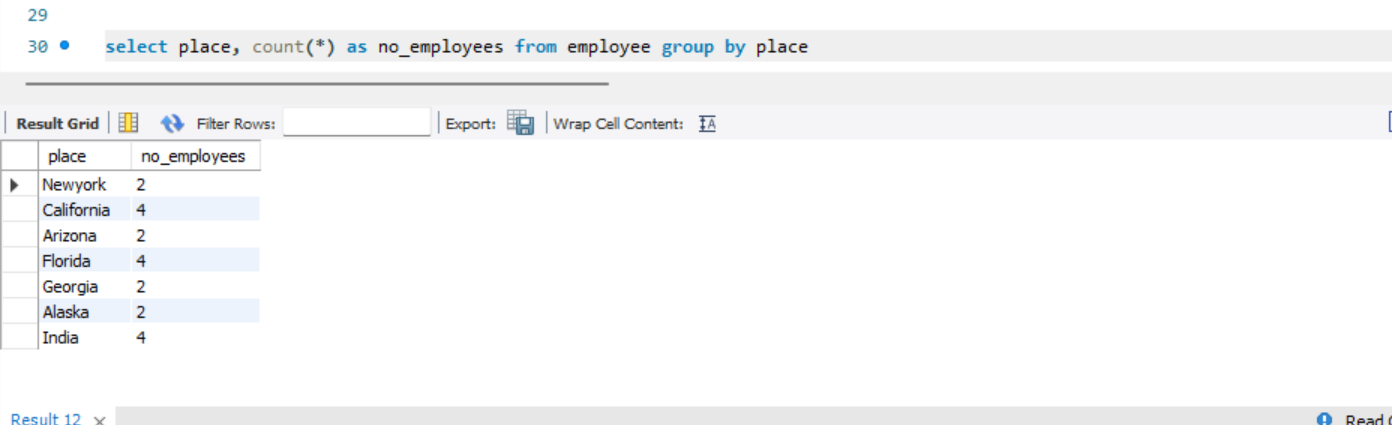
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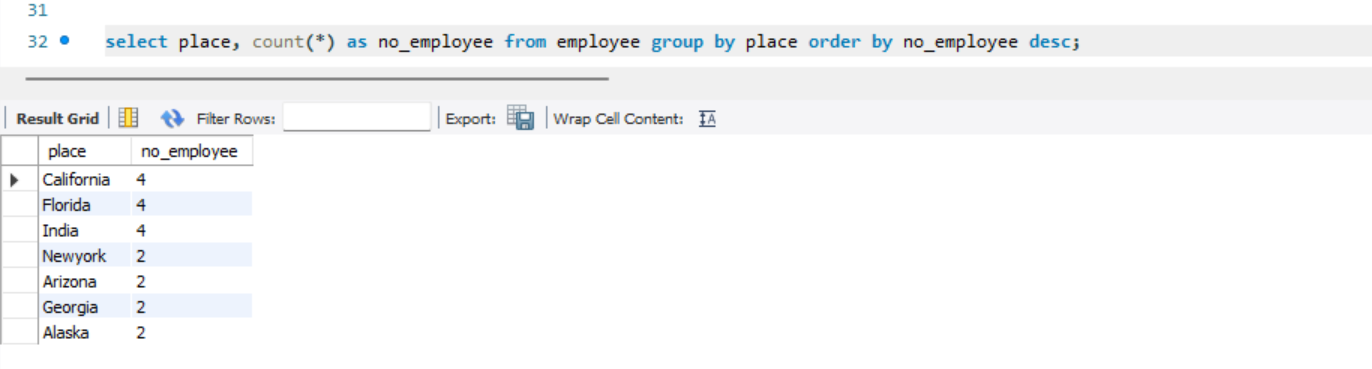
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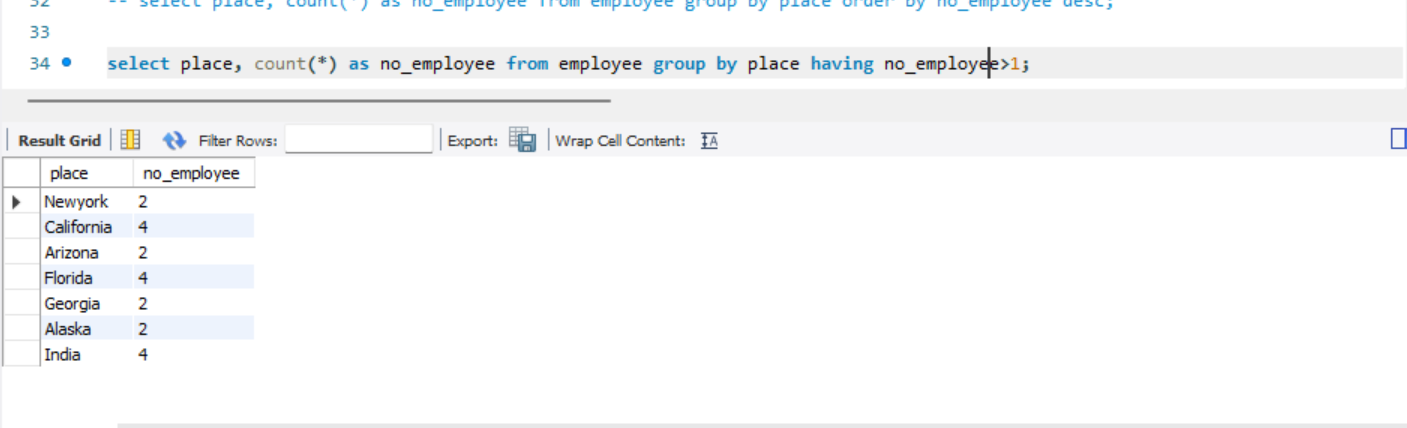
Q1 7



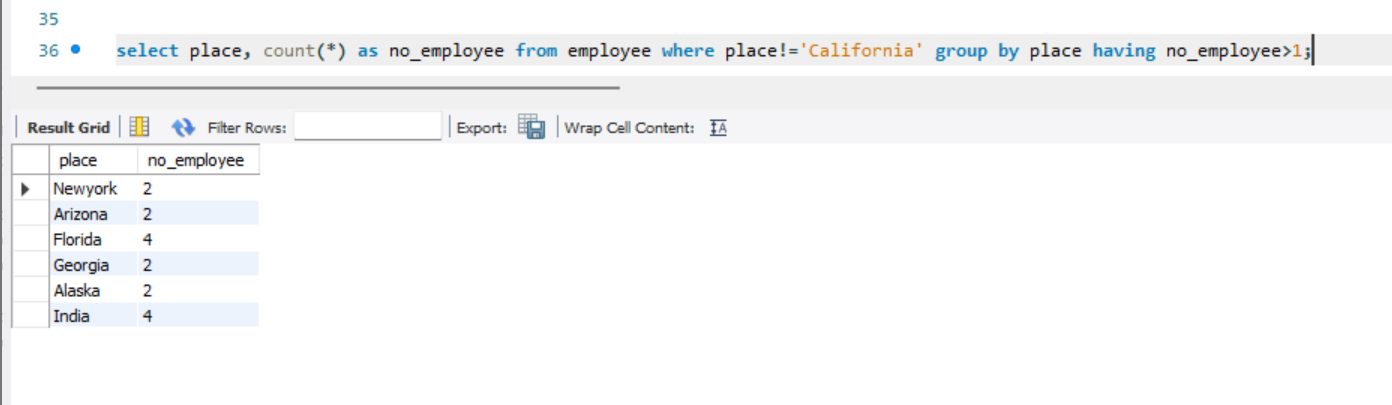
Q1 8



Q1 9



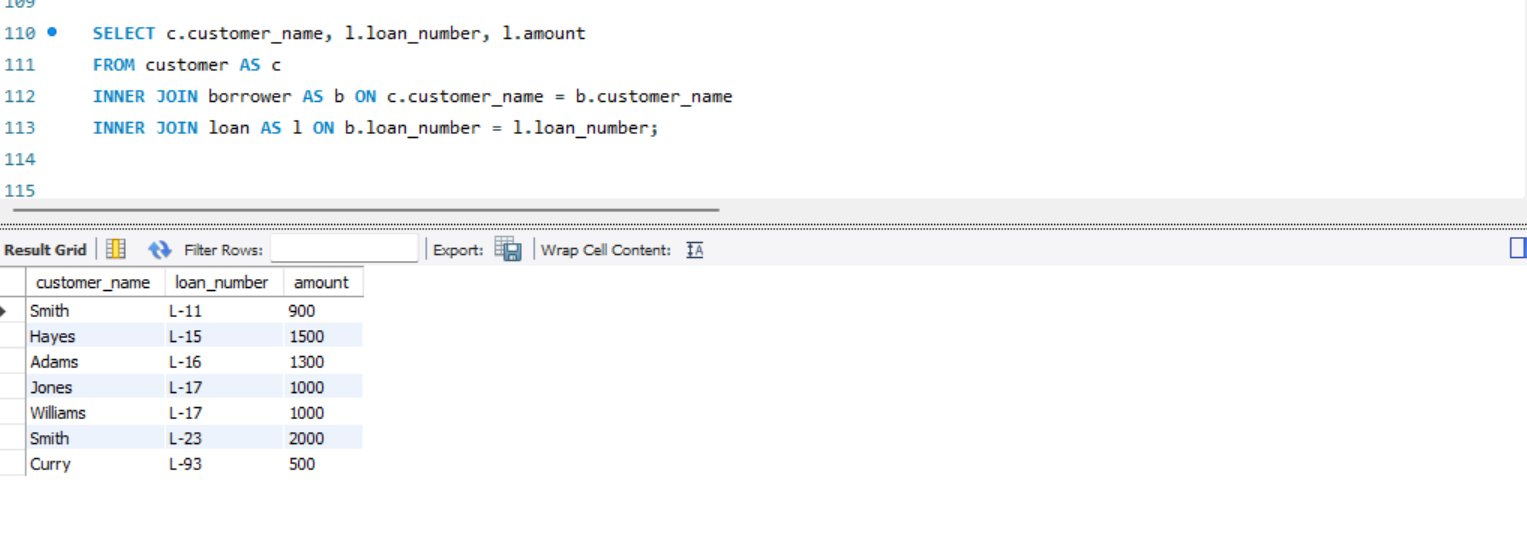
Q1 10



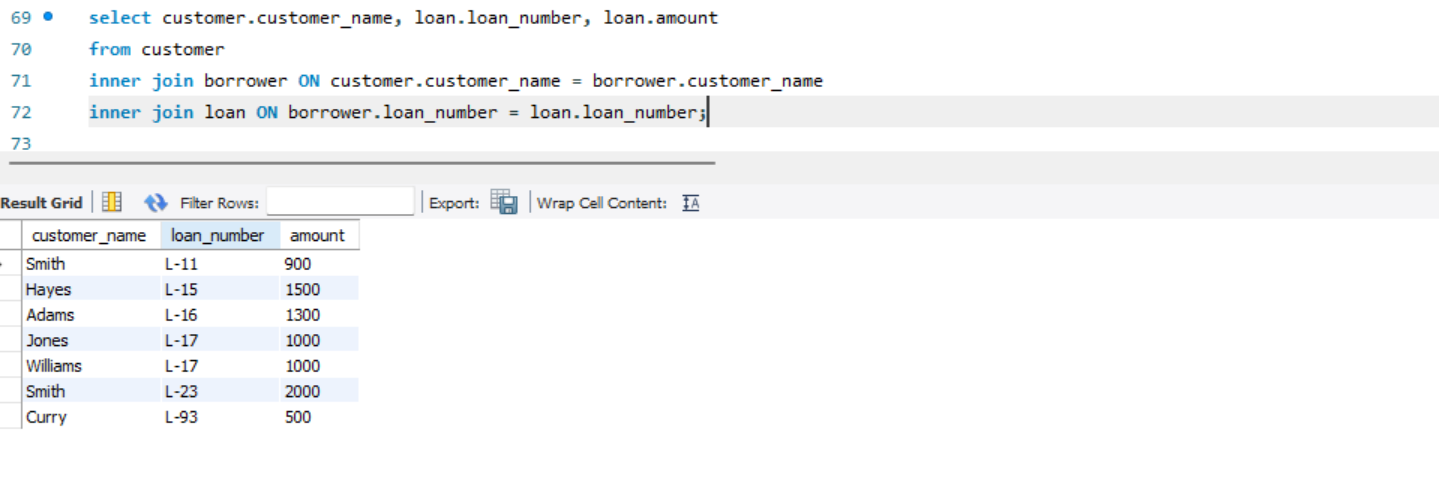
Q2 importing data from csv, creatinfg tables



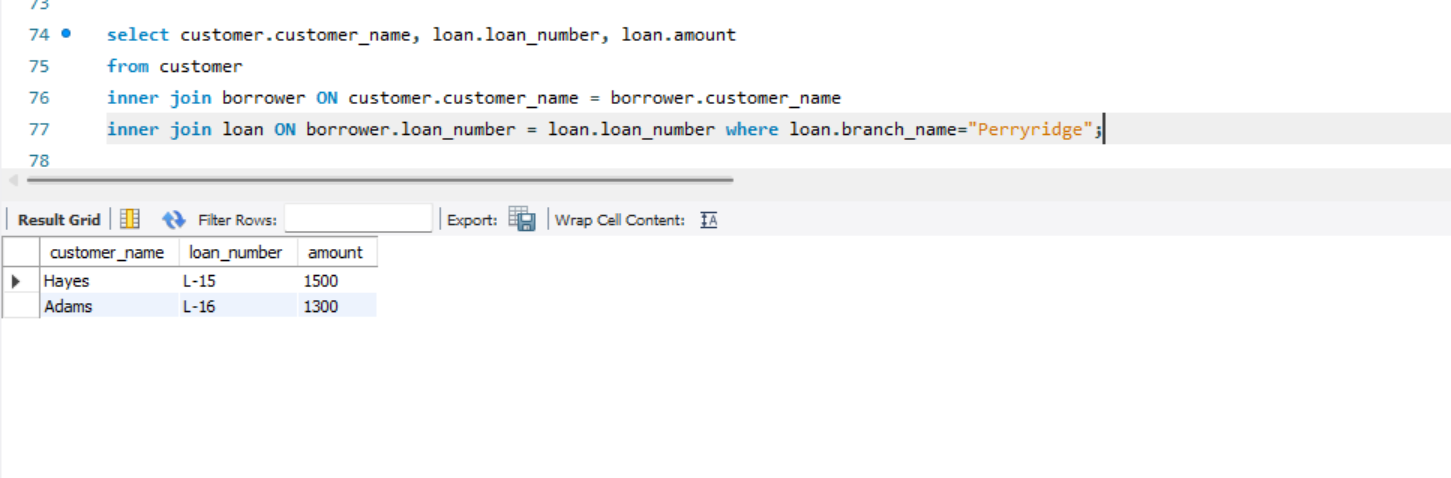
Q2 2 with renaming



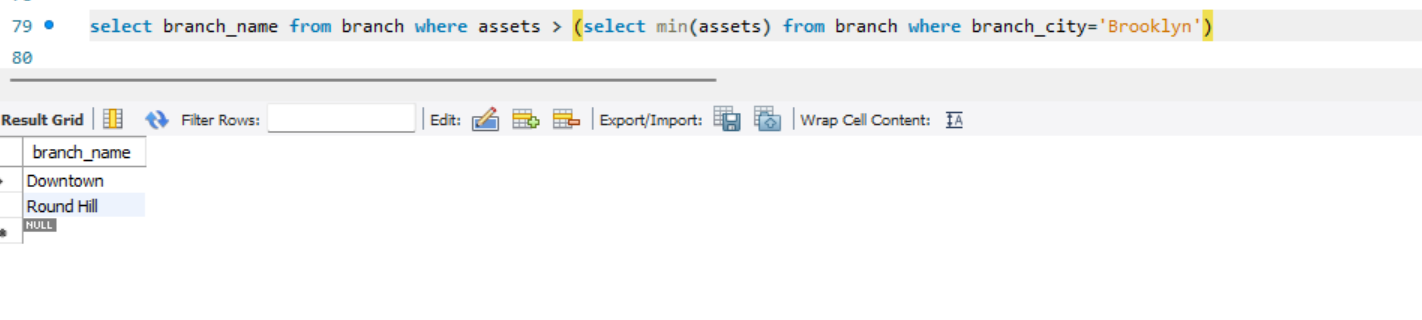
Q2 2 without renaming



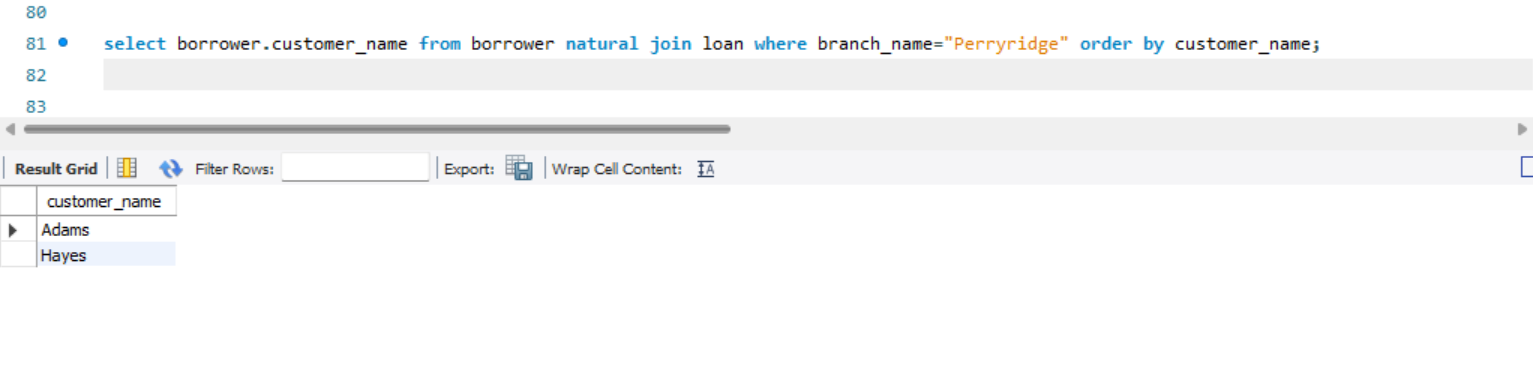
Q2 3



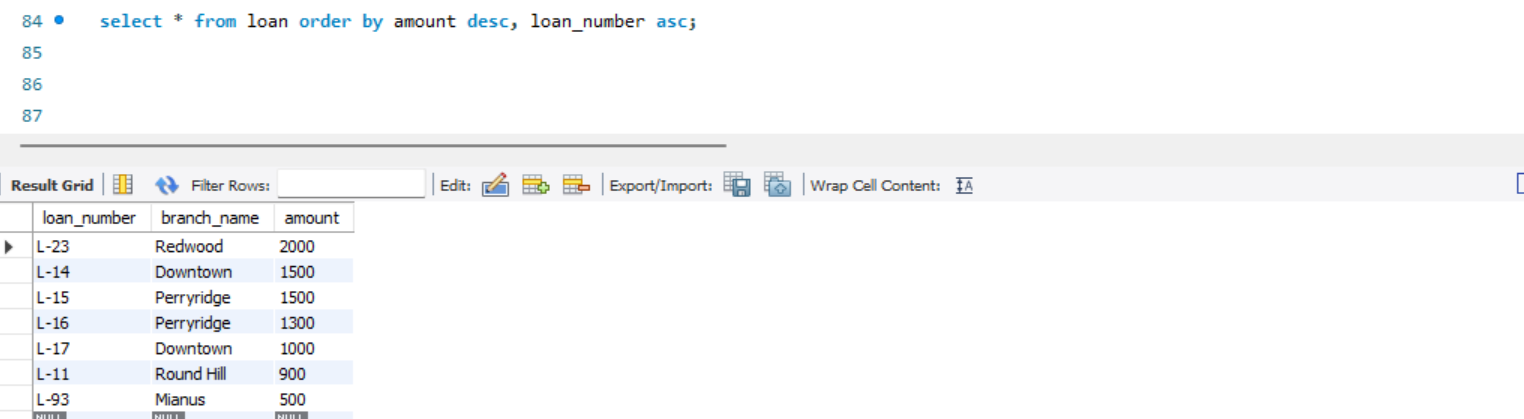
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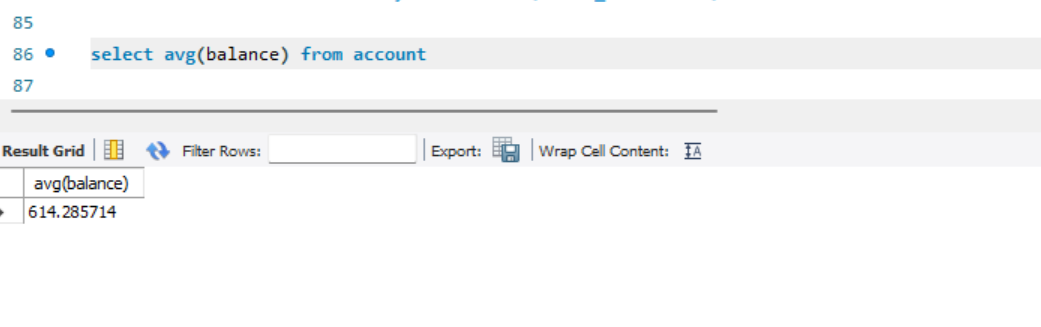
Q2 5



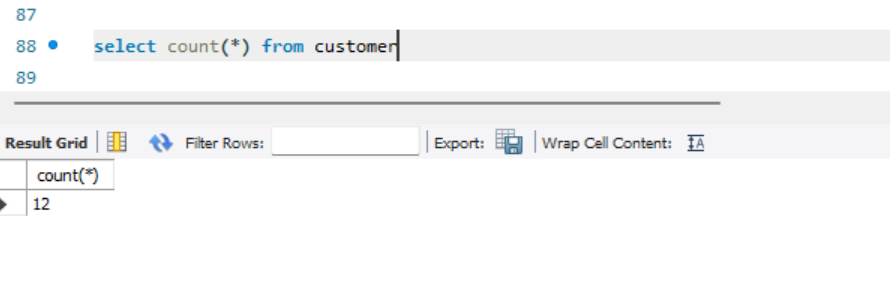
Q2 6



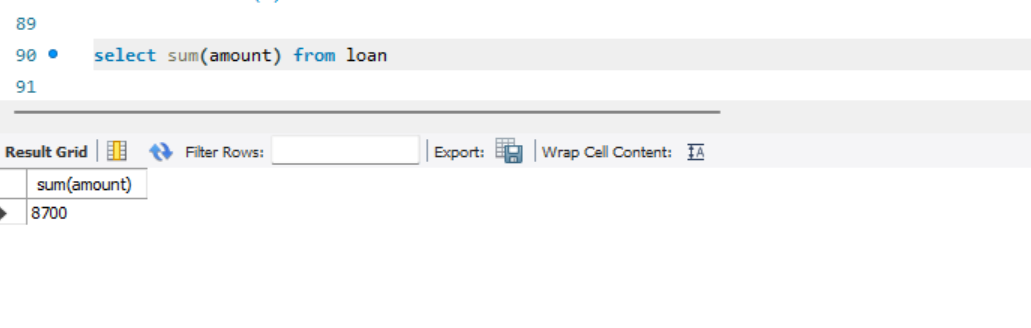
Q2 7



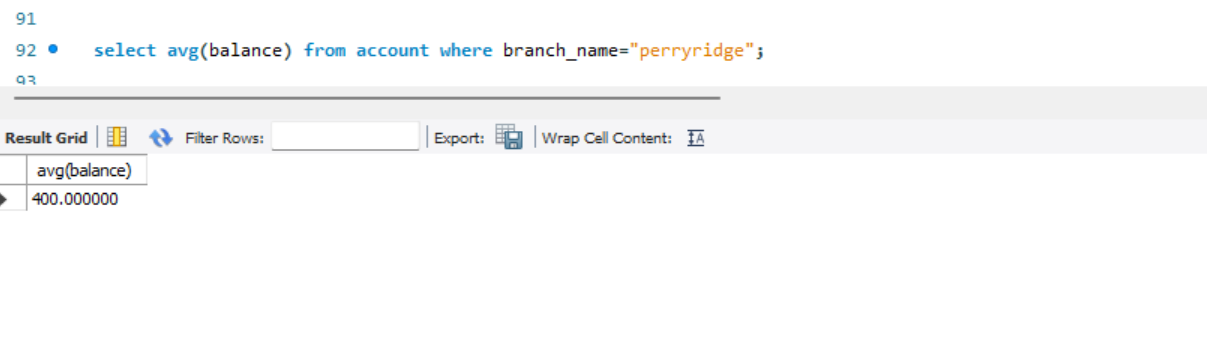
Q2 8



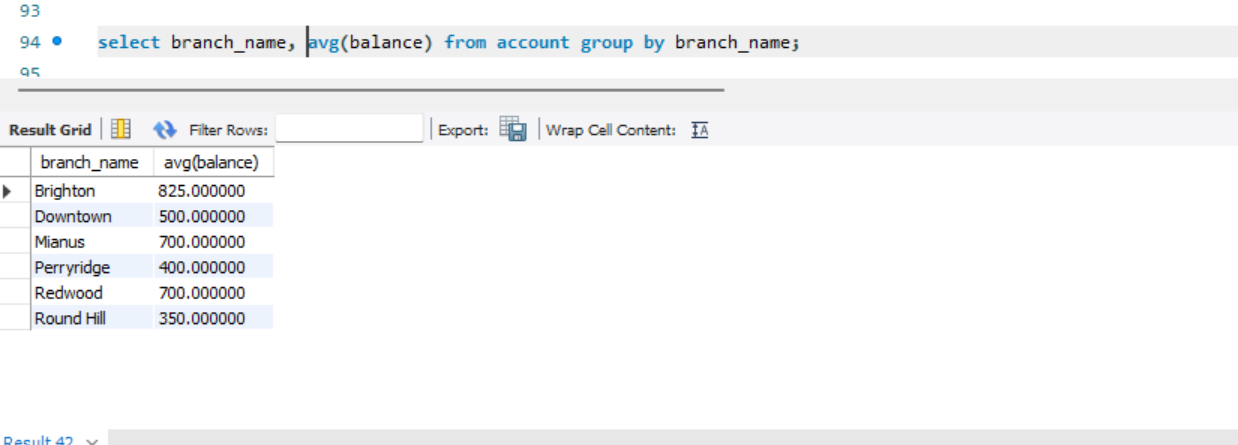
Q2 9



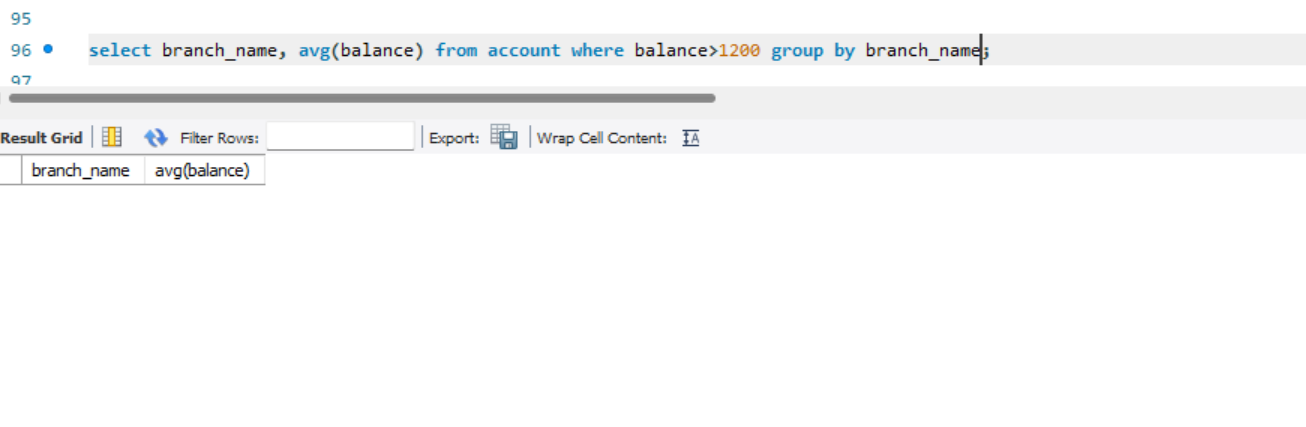
Q2 10



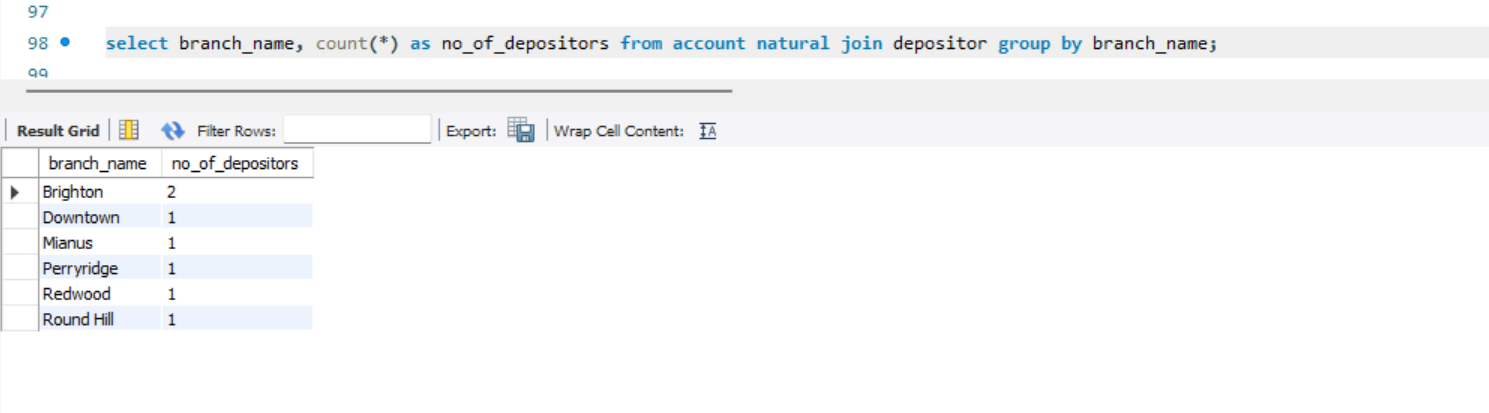
Q2 11



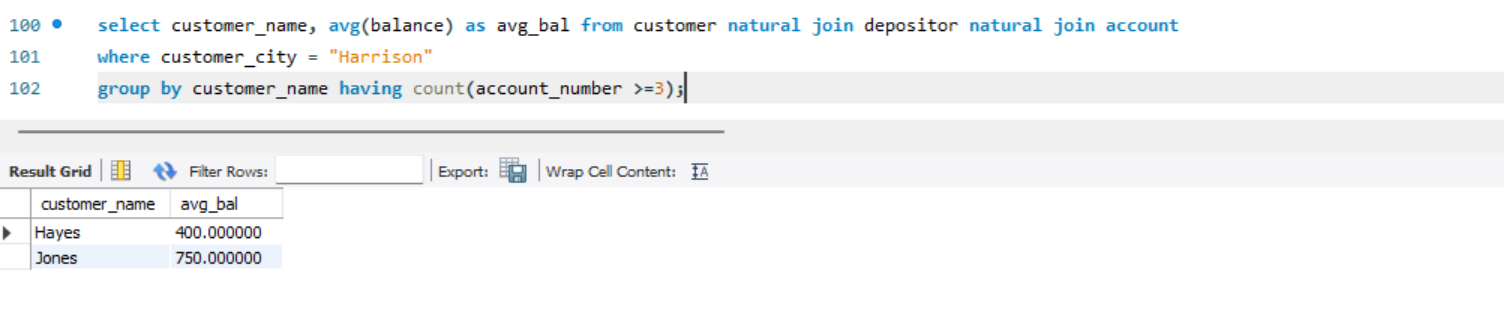
Q2 12



Q2 13



Q2 14



SQL CODE:

-- create database S20230010225\_Lab4

-- create table employee(

-- emp\_id int,

-- emp\_name varchar(20),

-- emp\_dept varchar(20),

-- emp\_age int,

-- place varchar(20),

-- income int,

-- doj date);

--

-- alter table employee auto\_increment=2505;

-- select \* from employee

-- select count(emp\_name) as noofnames from employee;

-- select emp\_dept, max(income) as highestsal from employee group by emp\_dept;

-- select max(income) as highestsal from employee;

-- select \* from employee where income between 100000 and 500000 and income!=120000;

-- select count(income) from employee where income >100000;

-- select \* from employee order by income;

-- select emp\_dept, count(\*) as no\_employees, max(income) as highestsal from employee group by emp\_dept;

-- select place, count(\*) as no\_employees from employee group by place

-- select place, count(\*) as no\_employee from employee group by place order by no\_employee desc;

-- select place, count(\*) as no\_employee from employee group by place having no\_employee>1;

-- select place, count(\*) as no\_employee from employee where place!='California' group by place having no\_employee>1;

-- create table customer (customer\_name char(20),customer\_street char(30),customer\_city

-- char(30),PRIMARY KEY(customer\_name));

-- Create table branch (branch\_name char(15),branch\_city char(30),assets

-- numeric(16,2),PRIMARY KEY(branch\_name));

-- Create table account (account\_number char(15),branch\_name char (15),balance

-- numeric(12,2),PRIMARY KEY(account\_number),FOREIGN KEY (branch\_name)

-- REFERENCES branch(branch\_name));

-- Create table depositor(customer\_name char(20),account\_number char(10),PRIMARY

-- KEY(customer\_name,account\_number),FOREIGN KEY (customer\_name)

-- REFERENCES customer(customer\_name),FOREIGN KEY (account\_number)

-- REFERENCES account(account\_number));

-- Create table loan(loan\_number varchar(6),branch\_name char(15),amount int,PRIMARY

-- KEY(loan\_number),FOREIGN KEY (branch\_name) REFERENCES

-- branch(branch\_name));

-- Create table borrower(customer\_name char(20),loan\_number varchar(6),PRIMARY

-- KEY(customer\_name,loan\_number),FOREIGN KEY (customer\_name) REFERENCES

-- customer(customer\_name),FOREIGN KEY (loan\_number) REFERENCES

-- loan(loan\_number));

-- SELECT c.customer\_name, l.loan\_number, l.amount

-- FROM customer AS c

-- INNER JOIN borrower AS b ON c.customer\_name = b.customer\_name

-- INNER JOIN loan AS l ON b.loan\_number = l.loan\_number;

-- select customer.customer\_name, loan.loan\_number, loan.amount

-- from customer

-- inner join borrower ON customer.customer\_name = borrower.customer\_name

-- inner join loan ON borrower.loan\_number = loan.loan\_number;

-- select customer.customer\_name, loan.loan\_number, loan.amount

-- from customer

-- inner join borrower ON customer.customer\_name = borrower.customer\_name

-- inner join loan ON borrower.loan\_number = loan.loan\_number where loan.branch\_name="Perryridge";

-- select branch\_name from branch where assets > (select min(assets) from branch where branch\_city='Brooklyn')

-- select borrower.customer\_name from borrower natural join loan where branch\_name="Perryridge" order by customer\_name;

-- select \* from loan order by amount desc, loan\_number asc;

-- select avg(balance) from account

-- select count(\*) from customer

-- select sum(amount) from loan

-- select avg(balance) from account where branch\_name="perryridge";

-- select branch\_name, avg(balance) from account group by branch\_name;

-- select branch\_name, avg(balance) from account where balance>1200 group by branch\_name;

-- select branch\_name, count(\*) as no\_of\_depositors from account natural join depositor group by branch\_name;

-- select customer\_name, avg(balance) as avg\_bal from customer natural join depositor natural join account

-- where customer\_city = "Harrison"

-- group by customer\_name having count(account\_number >=3);