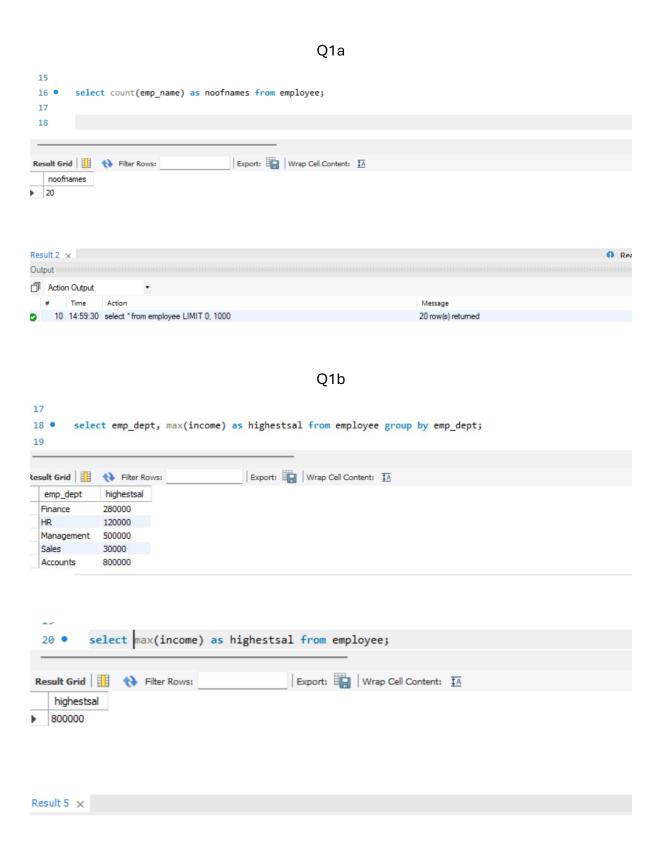
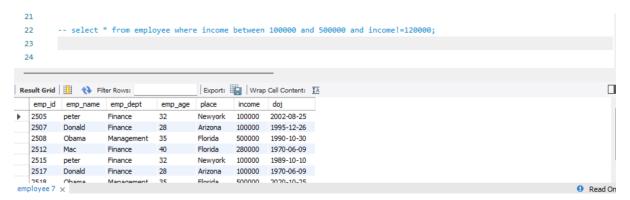
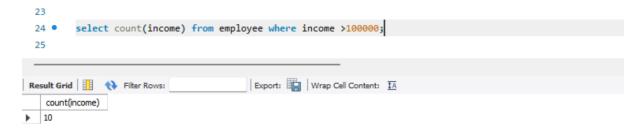
S20230010225 DBMS Lab 4



Q1c

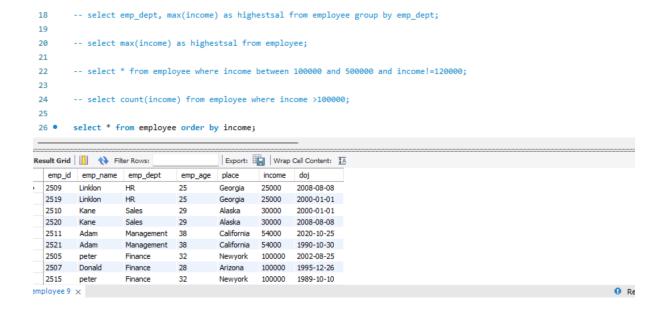


Q1d

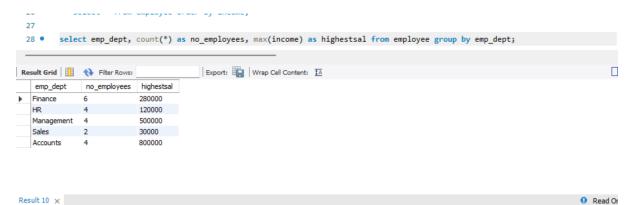




Q1e



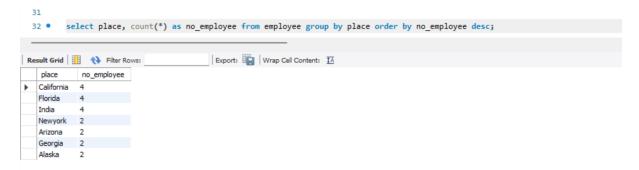
Q1f



Q17



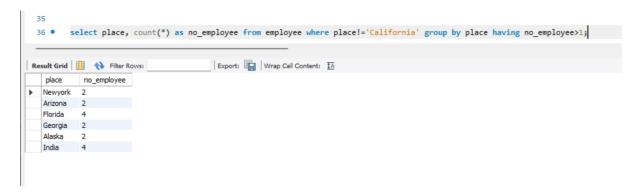
Q18



Q19



Q1 10



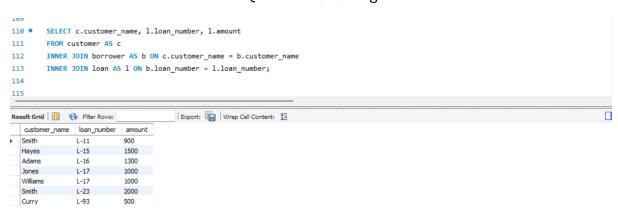
Q2 importing data from csv, creatinfg tables

```
38 •
     Create table customer (customer_name char(20),customer_street char(30),customer_city char(30), primary key(customer_name));
40 • 

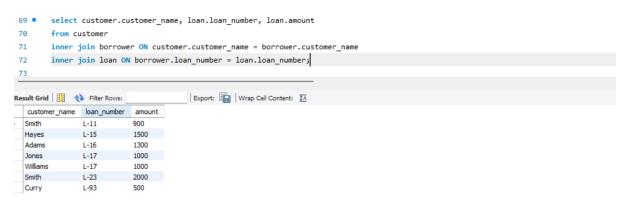
○ Create table branch (branch_name char(15),branch_city char(30),assets
     numeric(16,2),primary key(branch_name));
42
43 • 

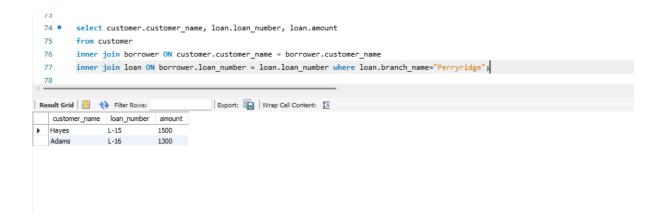
○ Create table account (account_number char(15),branch_name char (15),balance
44
      numeric(12,2),primary key(account_number),foreign key (branch_name)
45
      references branch(branch_name));
47 • ○ Create table depositor(customer_name char(20),account_number char(10),PRIMARY
48
      KEY(customer_name,account_number),FOREIGN KEY (customer_name)
49
      REFERENCES customer(customer_name),FOREIGN KEY (account_number)
50
     REFERENCES account(account_number));
52 • ⊖ Create table loan(loan_number varchar(6),branch_name char(15),amount int,PRIMARY
      KEY(loan_number), FOREIGN KEY (branch_name) REFERENCES
53
54
      branch(branch_name));
56 • ⊖ Create table borrower(customer_name char(20),loan_number varchar(6),PRIMARY
      KEY(customer_name,loan_number),FOREIGN KEY (customer_name) REFERENCES
```

Q2 2 with renaming



Q2 2 without renaming

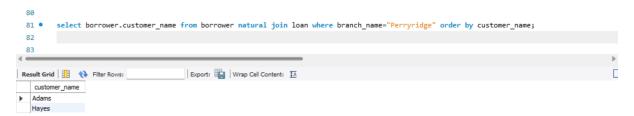


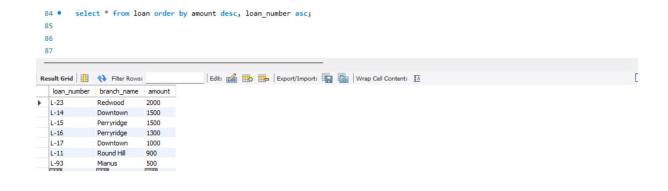


Q24

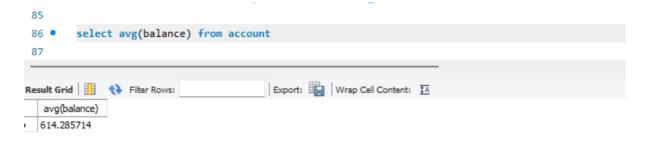


Q25





Q27

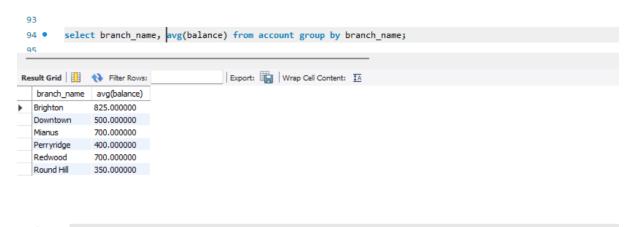


Q28

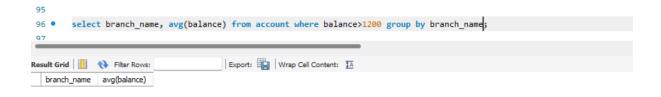


Q2 10

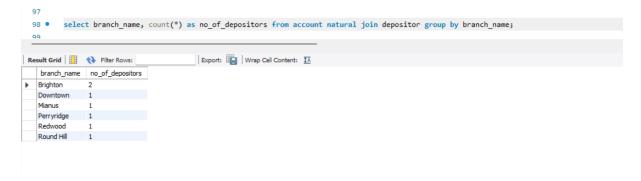
Q2 11



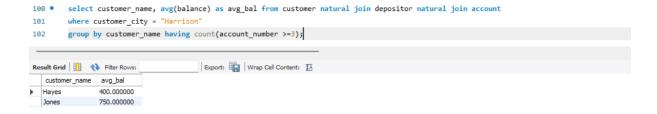
Q2 12



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 I 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')

