QUESTION 1:

1. select employee.employee-name, employee.street, employee.city from employee, works where employee.employee-name=works.employee-name and company-name = 'First Bank Corporation' and salary > 10000)

2. select e.employee-name from employee e, works w, company c where e.employee-name = w.employee-name and e.city = c.city and w.company-name = c.company-name

3. select p.employee-name from employee p, employee r, manages m where p.employee-name = m.employee-name and m.manager-name = r.employee-name and p.street = r.street and p.city = r.city

4. select employee-name from works where company-name <> 'First Bank Corporation‘

5. select employee-name from works where salary > all (select salary from works where company-name = 'Small Bank Corporation')

QUESTION 2:

1. SELECT COUNT(CO.ORDERNO) FROM CORDER CO WHERE CO.CUSTNO = 5;

2. SELECT ITEMNO,QTY FROM ORDERITEM WHERE ORDERNO = 5;

3. SELECT AVG(ORDAMT) FROM CORDER WHERE ODATE LIKE '%13';

4. SELECT COUNT(\*) FROM CORDER GROUP BY CUSTNO;

5. SELECT C.ENAME FROM CUSTOMER C,CORDER CO

WHERE C.CUSTNO = CO.CUSTNO AND CO.ORDERNO != 10;

6. SELECT C.ENAME,C.CUSTNO,C.CITY FROM CUSTOMER C,CORDER CO

WHERE C.CUSTNO = CO.CUSTNO AND CO.ORDAMT =

(SELECT MAX(CO.ORDAMT) FROM CORDER CO);

7. SELECT C.ENAME,COUNT(\*) FROM CUSTOMER C,CORDER CO

WHERE C.CUSTNO = CO.CUSTNO GROUP BY C.ENAME HAVING COUNT(\*) >= 10;

QUESTION 3:

1. Find all account whose balance is smaller than 500.

Answer: select account\_name from account where balance < 500;

2. Find all name of customers whose city is in Brooklyn

Answer: select customer\_name from customer where customer\_city='Brooklyn';

3. Find all employees whose salary is greater than 1400 and working branch is not ‘Downtown’

Answer: select \* from employee where salary>1400 and branch\_name<>’Downtown’;

4. Calculate the average salary of all employees and show the average salary as “avg\_salary”

Answer: select avg(salary) as avg\_salary from employee ;

5. Calculate the number of customer for each account

Answer: select account\_number, count(distinct customer\_name) from depositor group by account\_number;

6. Show all account\_number, branch\_name and corresponding branch\_city

Answer: select account\_number, branch.branch\_name, branch\_city from account, branch where account.branch\_name=branch.branch\_name;