3.8

a

MySQL does not support `except` :

```
select customer_name
from (depositor natural join account) left natural join borrower
where loan_number = NULL;
```

If `except` is supported:

```
(select customer_name
from depositor)
except
(select customer_name
from borrower);
```

b

```
select A.customr_name
from customer A join customer B
where A.customer_name = 'Smith' and A.customer_street = B.customer_street and
A.customer_city = B.customer_city;
```

c

```
select distinct branch_name
from account natural join (select account_number
                  from customer natural join depositor
                  where customer_city = 'Harrison'
                  ) as customer_in_harrison
```

3.9

a

```
select employee_name, city
from employee natural join works
where company_name = 'First Bank Corporation';
```

b

```
select employee_name, street, city
from employee natural join works
where company_name = 'First Bank Corporation' and salary > 10000;
```

(Assumed that every employee has a work and the queries list those earn more than 10,000 merely in First Bank Corporation)

c

```
select employee_name
from works
where employee_name not in (select employee_name
                        from works
                        where company_name = 'First Bank Corporation');
```

d

```
select employee_name
from works
where salary > all (select salary
              from works
              where company_name = 'Small Bank Corporation');
```

(Assumed that every employee has a work at most)

e

```
select A.company_name
from company A
where not exists ( (select city
             from conpany
             where company_name = 'Small Bank Corporation')
             except
             (select city
             from company B
             where A.company_name = B.company_name));
```

(The query when `except` is not supported is omitted, which is more complex and similar to **a** of 3.8)

f

```
select company_name
from works
group by company_name
having count(distinct employee_name) >= all(select count(distinct employee_name)
                                from works
                                group by company_name);
```

g

```
select avg(salary) into @FBC_avg
from works
where company_name = 'First Bank Corporation';

select company_name
from works
group by company_name
having avg(salary) > @FBC_avg;
```