

3.8

a.

```
(select ID
from depoditor)
except
(select ID
from borrower)
```

b.

```
select F.ID
from customer as F, customer as S
where F.customer_street = S.customer_street
      and F.customer_city= S.customer_city
      and S.customer_id='12345'
```

c.

```
select distinct branch_name
from accout , depositor , customer
where customer.id=depositor.id
      and depositor.account_number=account.account_number
      and customer_city='Harrison'
```

3.16

a.

```
select employee.ID , employee.person_name
from employee inner join works on employee.id=works.id
      inner join company on works.company_name=company.company_name
where employee.city=company.city
```

b.

```
select E.ID , E.person_name
from employee as E inner join manages on E.ID = manages.ID
      inner join employee as manager_of_E
      on manages.manager_ID = manager_of_E.ID
where E.street=manager_of_E.street
      and E.city=manager_of_E.city
```

c.

```
with average_salary_per_company (company_name, avg_salary) as (
      select company_name, avg (salary)
      from works
```

```

    group by company_name
)
select E.id, E.person_name
from employee as E inner join works on E.id = works.id
where works.salary > (
    select avg_salary
    from average_salary_per_company
    where company_name = works.company_name
)

```

d.

```

select company_name, sum (salary) as total_payroll
from works
group by company_name
order by total_payroll asc
limit 1

```

3.17

a.

```

update works
set salary = salary * 1.1
where company_name = 'First Bank Corporation'

```

b.

```

update works
set salary = salary * 1.1
where company_name = 'First Bank Corporation' and id in (
    select manager_id
    from manages
)

```

c.

```

delete from works
where company_name = 'Small Bank Corporation'

```