

3.4

- a. 

```
select count(distinct driver_id)
from participated natural join accident
where date between date '2009-01-01' and date '2009-12-31'
```
- b. 

```
insert into accident values (22,'2019-10-01','福州')
insert into participated
select 22,car.license,owns.driver_id,3000
from person natural join owns natural join car
where person.name = 'Jones' and car .model = 'Toyota'
```
- c. 

```
delete from car
where model = 'Mazda' and license in
(select license from person natural join owns where person.name='John Smith')
```

3.11

- c. 

```
select dept_name,max(salary)
from instructor
group by dept_name
```
- d. 

```
select min(maximum)
from (select dept_name, max(salary) as maximum
from instructor
group by dept_name)
```

3.14

- a. 

```
select count (*)
from accident
where exists
(select *
from participated, owns, person
where owns.driver_id = person.driver_id
and person.name = 'John Smith'
and owns.license = participated.license
and accident.report_number = participated.report_number)
```
- b. 

```
update participated
set damage_amount = 3000
where report_number = 'AR2197' and license = 'AABB2000'
```

3.15

- a. 

```
select distinct customer_name
from depositor as D
where not exist (select branch_name
from branch
```

```
where branch_city='Brooklyn'
except
select branch_name
from depositor natural join account as A
where A.customer_name = D.customer_name)
```

3.21

d.

with B as

```
(select count(*)
from member)
```

```
select count(*)/B
from borrowed;
```