数据库概论作业3

23.10.25

4.7

这里我把字符串长度上限都写为 N.

```
create table employee (
2
      ID int primary key,
 3
        person_name varchar(N),
4
       street varchar(N),
 5
       city varchar(N)
 6
 7
8
   create table works (
9
        ID int primary key references employee,
10
        company_name varchar(N) references company,
11
        salary int,
12
13
14
   create table company (
15
        company_name varchar(N) primary key,
16
        city varchar(N)
17
18
19 | create table manages (
20
      ID int primary key references employee,
21
        manager_id int references employee
22 )
```

4.8

(a)

```
select distinct ID, name, sec_id, semester, year, time_slot_id
from instructor natural join section natural join teaches
group by ID, name, sec_id, semester, year, time_slot_id
having count(*) > 1
```

(b)

```
create assertion instructor_has_no_doppelganger check (
unique (
select ID, sec_id, semester, year, time_slot_id
from teaches natural join section
)
)
)
```

```
\left| 1 \right| create trigger account_deleted after delete on account
2
   referencing old row as orow
3 for each row
4 begin
5
        delete from depositor
6
       where customer_name not in (
7
           select customer_name
8
           from depositor
9
           where account_number != orow.account_number
10
11 end
```