作业 HW3

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在本次作业中我遵循 *SQLite* 的语法。

1. (4.7)

```
create table employee(
    ID varchar(10) primary key ,
    person_name varchar(20),
    street varchar(20),
    city varchar(20)
);
create table company(
    company_name varchar(20) primary key ,
    city varchar(20)
);
create table works(
    ID varchar(10) primary key references employee,
    company_name varchar(20) references company,
    salary numeric(10)
);
create table manages(
    ID varchar(10) primary key references employee,
    manager_id varchar(10) references employee
    -- manager must also be an employee
);
```

2. (4.16)

```
--4.16
select ID
from student natural left outer join takes
where course_id is null;
-- course_id is part of the primary key of takes
```

```
6  -- so that if it is null, it means that the corresponding student haven't
      taken any courses yet
```