3.11

/\*评：其实可以直接takes与course natural join而不是与section，毕竟都有course\_id\*/

a.

**select** distinct student.name

**from** ~~student natural join takes natural join section,course~~

**where** section.course\_id = course.course\_id and course.dept\_name='Comp. Sci.'



b.

select ID,name

from student ~~natural join takes~~  /\*评：此处不需要natural join takes，只需要选所有学生，毕竟后面才是限制\*/

except

select ID,name

from student natural join takes

where year<2009

c.

select dept\_name,max(salary)

from instructor

group by dept\_name

d.

with max\_salary\_dept(dept\_name,max\_sal) as 【别忘记with创表时标明名字】

(select dept\_name,max(salary) as max\_sal 【此时下面就不用重命名】

from instructor

group by dept\_name)

select min(max\_sal)

~~from max\_salary\_dept natural join department 【复杂了】~~

3.12

1.Insert into course

Values(“CS-001”,’Weekly Seminar’, ‘Comp. Sci.’, 0)

b.

insert into section

values(‘CS-001’, 1, ‘Autumn’, 2009, null, null, null)

c.

insert into takes

(select ID, ‘CS-001’, 1, ‘Autumn’, 2009, null

From student

Where dept\_name = ‘Comp. Sci.’)

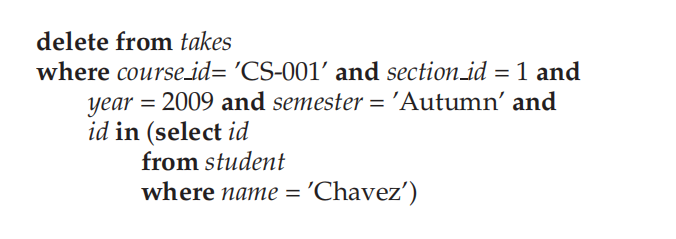
c. 【这里很严重，where必须出来】

delete from takes

select student.ID, course\_id, sec\_id, semester, year, grade

from student natural join takes

where name = ‘Chavez’



e.【删这门课，就要删掉所有与之相关的地方，还得注意顺序！！！】

Delete from course

Where course\_id = ‘CS-001’

f.【此处lower必须写上】

delete from takes

where course\_id in (

select course\_id

from course

where lower(title) like ‘%database%’)

3.13

Create table person(

Driver\_id char(7),

Name varchar(20),

Address varchar(20),

Primary key(driver\_id))

Create table car(

license varchar(7),

model varchar(7),

year numeric(4,0),

Primary key(license))

3.14

a.

Select count(\*)

From person natural join participated

Where name = ‘John Smith’

b.

update participated

set damage\_count=3000

where license =’AABB2000’ and report\_number=’AR2197’

3.15

//思路基本正确，但还需要打磨

Select \*

From customer as T

Where not exists(

(Select account\_number

From account

Where branch\_name=’Brooklyn’)

Except

(select account\_number

From account natural join depositor natural join (customer as S)

where T.customer\_name = S.customer\_name))

b.

select branch\_name, sum(amounts)

from loan

group by branch\_name

3.16

A【多余了】

select employee\_name

from employee natural join works

where works.company\_name = ‘First Bank Corporation’

b

select employee\_name

from employee natural join works, company

where employee.city = company.city and works.company\_name=company.company\_name

c.

select T.employee\_name【少加T可不行】

from employee as T natural join managers, employee as S

where managers.manager\_name = S.employee\_name

and T.city = S.city

and T.street = S.street

d:

with com\_avg\_salary(company\_name, value) as

(select company\_name, avg(salary)

From works

Group by company\_name)

Select employee\_name

From works natural join com\_avg\_salary

Where works.salary > com\_avg\_salary.value

E:

With tot\_salary(company\_name, value) as

(select company\_name, sum(salary)

From works

Group by company\_name)

Select company\_name

From tot\_salary

Where tot\_salary.value <= all(

Select value

From tot\_salary)

b.

update works as T

set salary = salary \* 1.1

where company\_name = ‘First xxx’ and

exists (

select \*

from managers

where managers.manager\_name = T.employee\_name)

2.13