

作业1:

解: 关系的概念对应于程序设计语言中变量的概念, 而关系模式的概念对应于程序设计语言中类型定义的概念。

即关系是一个实例, 而关系模式是一个模板, 用于描述关系的结构。

作业2:

解:

a. ~~select employee\_name~~ select person\_name  
from works

where company\_name = 'First Bank Corporation'

b. select p.person\_name, city  
from employee p, works w

where w.company\_name = 'First Bank Corporation' and

~~w.person\_name~~ w.person\_name = p.person\_name

c. select \*  
from employee

where person\_name in  
(select person\_name

from works

where company\_name = 'First Bank Corporation' and salary > 10000)

d. select p.person\_name

from employee p, works w, company c

where p.person\_name = w.person\_name and

p.city = c.city and

w.company\_name = c.company\_name



e.   
 select A.company-name  
 from company A  
 where ( select B.city  
 from company B  
 where B.company-name = A.company-name)  
 contains  
 ( select C.city  
 from company C  
 where C.company-name = 'Small Bank Corporation' )

作业3:

- 解 ① 因为空值 (null) 可以表示值未知  
 ② 同时也可以表示值不存在。

作业4:

解 a. update works  
 set salary = salary \* 1.1  
 where company-name = 'First Bank Corporation'

b. update works T  
 set T.salary = T.salary \*  
 (case when (T.salary \* 1.1 > 10000) then 1.0  
 else 1.1

~~where T.employee = T.person-name in (select~~  
 where T.person-name in (select manager-name  
 from manages) and  
 T.company-name = 'First Bank Corporation'



c. delete from works  
where company\_name = 'Small Bank Corporation'