3.17 Consider the relational database of Figure 3.20. Give an expression in SQL for each of the following queries.
   a. Give all employees of First Bank Corporation a 10 percent raise.
   b. Give all managers of First Bank Corporation a 10 percent raise.
c. Delete all tuples in the *works* relation for employees of Small Bank Corporation.

**Answer:**

a. Give all employees of First Bank Corporation a 10-percent raise. (the solution assumes that each person works for at most one company.)

```
update works
set salary = salary * 1.1
where company_name = 'First Bank Corporation'
```

b. Give all managers of First Bank Corporation a 10-percent raise.

```
update works
set salary = salary * 1.1
where employee_name in (select manager_name
                          from manages)
                          and company_name = 'First Bank Corporation'
```

c. Delete all tuples in the *works* relation for employees of Small Bank Corporation.

```
delete from works
where company_name = 'Small Bank Corporation'
```
For the database of Figure 4.11, write a query to find those employees with no manager. Note that an employee may simply have no manager listed or may have a null manager. Write your query using an outer join and then write it again using no outer join at all.

**Answer:**

a.

```
select employee_name
from employee natural left outer join manages
where manager_name is null
```
b.

```sql
select employee.name
from employee e
where not exists
  (select employee.name
   from manages m
   where e.employee_name = m.employee_name and
     m.manager_name is not null)
```