Computer System Software(2) Structured Query Language

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I. PROBLEM 1

Find the names of all employees who work for "First Bank Corporation". **select** person_name **from** works **where** company_name = 'First Bank Corporation'

II. PROBLEM 2

Find the names of all employees in this database who do not work for "First Bank Corporation".

select person_name from employee

except

select person_name **from** works **where** company_name = 'First Bank Corporation'

III. PROBLEM 3

Find the names of all employees who live in the same city and on the same street as do their managers.

select T.person_name **from** employee as T, manages, employee as S

where T.person_name = manages.person_name **and** S.person_name = manages.manager_name **and** T.city = S.city and T.street = S.street

IV. PROBLEM 4

Find the names of all employees who earn more than every employee of "Small Bank Corporation".

select person_name from works

except

select T.person_name **from** works as T, works as S **where** S.company_name = 'Small Bank Corporation' **and** S.salary >= T.salary

PROBLEM 5

Find the names and cities of residence of all employees who work for "First Bank Corporation".

select employee.person_name, employee.city from employee, works

where employee.person_name = works.person_name **and** works.company_name = 'First Bank Corporation'

v. Problem 6

Find the names, street addresses, and cities of residence of all employees who work for "First Bank Corporation" and earn more than \$10,000.

select employee.person_name, employee.city from employee, works

where employee.person_name = works.person_name **and** works.company_name = 'First Bank Corporation' **and** works.salary >= 10,000

VI. PROBLEM 7

Find the names of all employees in this database who live in the same city as the company for which they work.

select employee.person_name from employee, works, company

where employee.person_name = works.person_name **and** works.company_name = company.company_name **and** employee.city = company.city

VII. PROBLEM 8

Assume the companies may be located in several cities. Find all companies located in every city in which "Small Bank Corporation" is located.

select *

from company as S

where not exists

((select T.city from company as T where T.company_name='Small Bank Corporation')

(**select** R.city **from** company as R **where** R.company_name=S.company_name))