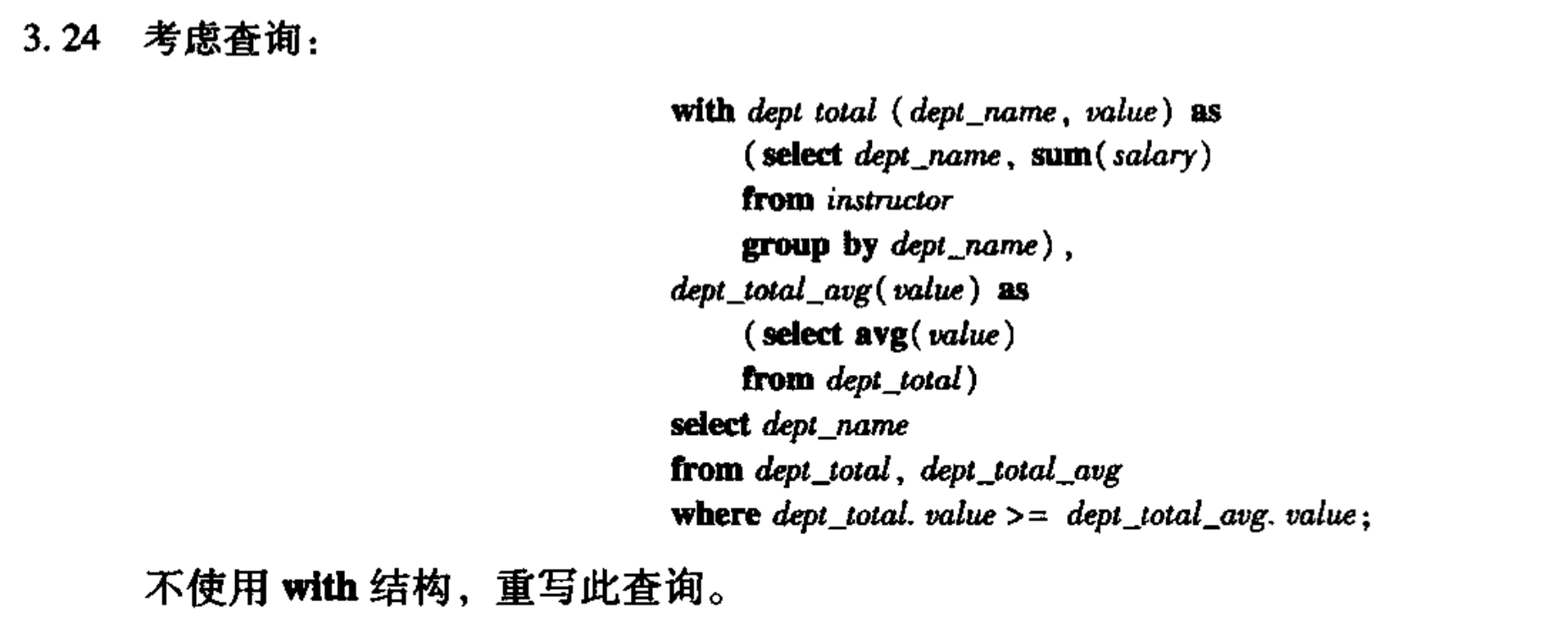


a. ∏loan\_number(σamount>10000(loan))

b. ∏customer\_name(σbalance>6000(account⋈depositor))

c.∏customer\_name(σbalance>6000

(account⋈depositor)∪σbranch\_name="Uptown"(account⋈depositor))





SELECT DISTINCT dept\_name

FROM instructor i1

WHERE

(SELECT SUM(salary)

FROM instructor i2

WHERE i2.dept\_name = i1.dept\_name)

>=

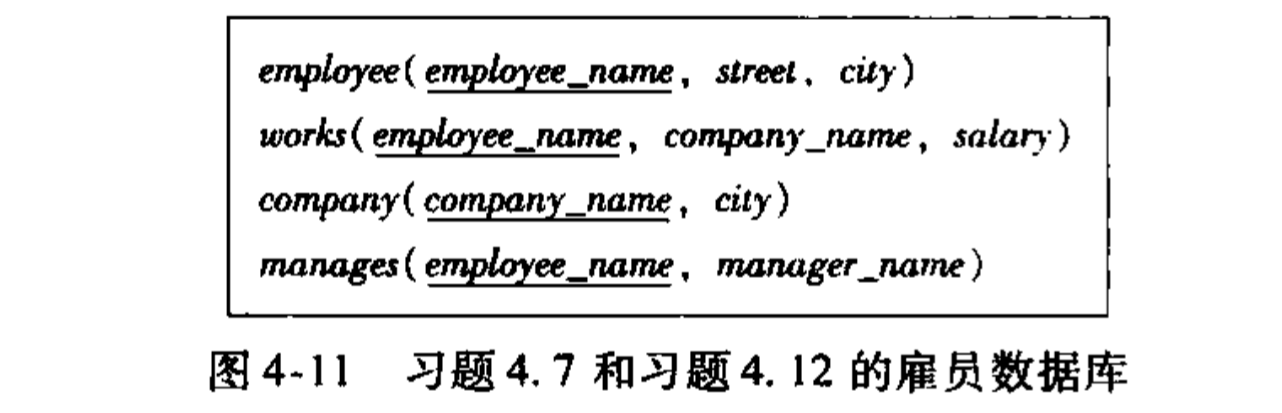
(SELECT AVG(s)

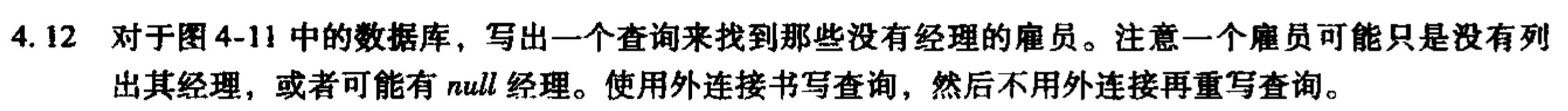
FROM

(SELECT SUM(salary) AS s

FROM instructor

GROUP BY dept\_name))





SELECT employee\_name

FROM employee NATURAL LEFT OUTER JOIN manages

WHERE manager\_name is NULL;