The Second Assignment

1552661 王一同

**Answer:**

5.16:

**with** instr\_number(dept\_name, number) **as**

(**select** dept\_name, **count** (ID)

**from** instructor

**group by** dept\_name)

**select** dept\_name, budget

**from** department, instr\_number

**where** department.dept\_name = instr\_budget.dept\_name **and** number > 12

5.22:

It’s difficult to identify and inhibit triggers statically.And the trigger may cause a non-terminating recursion.So database systems place such a limit on the depth of nesting.

6.11:

1. ∏person\_name (σ company\_name =“First Bank Corporation”(works))

b. ∏person\_name,city (employee ⋈(σ company\_name =“First Bank Corporation(works)))

c. ∏person\_name, street, city(employee ⋈(σ company\_name =“First Bank Corporation” ∧ salary > 10000(works)))

d. ∏ person\_name (employee ⋈ works ⋈ company)

e. ∏company\_name (company ⋈(∏ city (σ company\_name = “Small Bank Corporation” (company))))