《数据库系统》
作业 6

姓名: _____刘韬_____

学院: _____竺可桢学院_____

专业: _____人工智能_____

邮箱: ___3220103422@zju.edu.cn___

日期: _____2024 年 4 月 7 日_____

5.6

```
create trigger insert_branch_cust_depositor
after insert on depositor
referencing new row as n
for each row
insert into branch_cust
  select branch_name, n.customer_name
  from account
  where account.account_number = n.account_number;

create trigger insert_branch_cust_account
after insert on account
referencing new row as n
for each row
insert into branch_cust
  select n.branch_name, customer_name
  from depositor
  where depositor.account_number = n.account_number;
```

5.15

```
create function avg_salary(company_name varchar(20))
  returns real
  begin
    declare avg_sal real;
    select avf(salary)
    into avg_sal
    from works
    where works.company_name = company_name;
    return avg_sal;
  end;

select distinct company_name
from works
where avg_salary(company_name) > avg_salary('First Bank');
```

5.19

设 s 中删除的元组名为 D，那么 r 中所有满足 B = D.A 的元组都会被删除，这就是级联删除。下面用一个 trigger 实现级联删除:

```
create trigger cascade_delete_r
after delete on s
referencing old row AS old
for each row
begin
  delete from r where B = old.A;
end;
```