```
create or replace function check_password(password varchar(16)) returns boolean as $$

begin

if (length(password) < 8) then return false;

else return true;

end if;

end; $$

create or replace function two_output(words varchar(25), out word1 varchar(25),

out word2 varchar(25)) as $$

begin

word1 = split_part(words, ' ', 1);

word2 = split_part(words, ' ', 2);

end; $$

and the control of t
```

```
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-- TASK2
-- a)

2 V create table info (
    id integer primary key,
    name varchar,
    course integer,
    age integer,
    birth_date date,
    changes timestamp(6)

3 perceate function last_changes() returns trigger as $

5 pegin
    if new.course <> old.course then
    insert into info(id, name, course, age, birth_date, changes)
    values (old.id, old.name, new.course, old.age, old.birth_date, now());
    end if;
    return new;
    end; $

    clanguage plpgsql;
    create trigger lasst_changes
    before update on info for each row
    execute procedure last_changes();
```

```
create or replace function age_count() returns trigger as $$

begin

update info

set age = round((current_date - new.birth_date) / 365.25)

where id = new.id and birth_date <> null;

return new;

end; $$

create trigger age_of_person

after insert on info for each row

execute procedure age_count();
```

```
execute procedure age_count();
-- c)

create table product(
   id integer primary key,
   name varchar,
   price integer

);
insert into product(id, name, price) values (1, 'a', 100);
insert into product(id, name, price) values (2, 'b', 150);
insert into product(id, name, price) values (3, 'c', 200);

create or replace function tax_price() returns trigger as $$

begin
   update product
   set price = price * (1.12)
   where id = new.id;
   return new;
end; $$

create trigger new_price
   after insert on product for each row
   execute procedure tax_price();
```

```
create table person(
    name varchar(20),
    first_name_last_name varchar(25)
    password text,
    validity boolean

);
create or replace function two_launches() returns trigger language plpgsql

as $$
    begin

if check_password( password: new.password) = true then
    update person
    set validity = true, first_name_last_name = two_output( words name)
    where name = new.name;
else

    update person
    set validity = false
    where name = new.name;
end if;
    return new;
end; $$_
create trigger two_changes
    after insert on person for each row
    execute procedure two launches():
```

3. What is the difference between procedure and and function?

## Function:

- the function cannot call a stored procedure
- you can call functions from a select statement
- no transactions are allowed
- only select is allowed
- must return a result or value to the caller

## Procedure:

- stored procedures can call functions as needed
- there is no provision to call procedures from select/having and where statements
- transactions can be used in stored procedures
- need not return any value
- operations insert, update, delete

```
dreate or replace procedure age_increase() as $$

begin

update employee set salary = salary * (1.15) where age >= 40;

update employee set salary = salary * (1.15), discount = 20 where workexperience >= 8;

commit;

end; $$

alanguage plpgsql;
```

```
① P 🗲 Tx: Auto ∨ ✓ 🗇 🔳 🚟
     create table members(
         memid integer,
         surname varchar(200),
         firstname varchar(200),
         address varchar(300),
         zipcode integer,
         telephone varchar(20),
         recommendedby integer,
         joindate timestamp
    ៌);
    ⊝create table bookings(
         facid integer,
         memid integer,
         starttime timestamp,
         slots integer
     create table facilities(
         facid integer,
         name varchar(100),
         membercost numeric,
```

```
with recursive recommenders(member, recommender) as (
select memid, recommendedby from members union
select members.memid, members.recommendedby
from recommenders inner join members on members.recommendedby = recommenders.member
select * from recommenders where member = 22 and member = 12

order by member asc, recommender desc;
```