← Project review - SQL1 Bootcamp. Day09

Type of project	Individual
Duration	30 min
Passed Peer Reviews	2/3

Git project

ssh://git@repos-ssh.21-school.ru:2289/students/SQL_beginner._Day09.ID_574108/ddu...

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Student

ddurrand@student.21-school.ru level 8

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nse only if peer-to-peer reviews are done seriously.
re starting the review.
ful and constructive in all communications during t
his review.

- Highlight possible malfunctions of the work done by the person and take the time to disc uss and debate it.
- Keep in mind that sometimes there can be differences in interpretation of the tasks and t he scope of features. Please, stay open-minded to the vision of the other.
- If you have not finished the project yet, it is compulsory to read the entire instruction bef ore starting the review.

Guidelines

- Evaluate only the files that are in src folder on the GIT repository of the student or group.
- Ensure to start reviewing a group project only when the team is present in full.
- Use special flags in the checklist to report, for example, an “empty work” if repository do es not contain the work of the student (or group) in the src folder of the develop branch, or “cheat” in case of cheating or if the student (or group) are unable to explain their work at a ny time during review as well as if one of the points below is not met. However, except for cheating cases, you are encouraged to continue reviewing the project to identify the probl ems that caused the situation in order to avoid them at the next review.
- Doublecheck that the GIT repository is the one corresponding to the student or the grou p.
- Meticulously check that nothing malicious has been used to mislead you.
- In controversial cases, remember that the checklist determines only the general order of t he check. The final decision on project evaluation remains with the reviewer.

Main part

Exercise 00

Checks for the file day09_ex00.sql
- The SQL script looks like below.

```
create table person_audit
(
created timestamp with time zone not null default current_timestamp,
type_event char(1) not null default 'I',
row_id      bigint not null ,
name    varchar ,
age     integer ,
);
```

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```
e_event in ('I','U', 'D') )
);
```

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```
trg_person_insert_audit( )
$BODY$
```

```
    BEGIN
    INSERT INTO person_audit(created, type_event, row_id, name, age, gender, address)
    VALUES(current_timestamp,'I', NEW.id, NEW.name, NEW.age, NEW.gender, NEW.addres
s);
    RETURN NULL;
    END;
    $BODY$
    LANGUAGE plpgsql;
```

- The SQL for trigger

```
    CREATE  TRIGGER trg_person_insert_audit
    AFTER    INSERT ON person FOR EACH ROW
    EXECUTE FUNCTION  fnc_trg_person_insert_audit( );
```

- SQL to check

```
    select * from person_audit
```

- result of SQL

```
    "2022-03-21 20:27:40.283551 +00:00"  "I"  "10"     "Damir"  "22"     "male"   "Irk
utsk"
```

No ✓ Yes

Exercise 01

Checks for the file day09_ex01.sql
- The SQL for trigger function

```
    CREATE OR REPLACE FUNCTION fnc_trg_person_update_audit( )
    RETURNS TRIGGER AS
    $BODY$
    BEGIN
    INSERT INTO person_audit(created, type_event, row_id, name, age, gender, address)
    VALUES(current_timestamp,'U', OLD.id, OLD.name, OLD.age, OLD.gender, OLD.addres
s);
    RETURN NULL;
    END;
    $BODY$
    LANGUAGE plpgsql;
```

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```
    select * from person_audit
```

- result of SQL

```
    "2022-03-21 20:27:40.283551 +00:00"  "I"  "10"     "Damir"  "22"     "male"   "Irk
utsk"
    "2022-03-21 20:29:38.834865 +00:00"  "U"  "10"     "Damir"  "22"     "male"   "Irk
utsk"
    "2022-03-21 20:29:39.333943 +00:00"  "U"  "10"     "Bulat"  "22"     "male"   "Irk
utsk"
```

No ✓ Yes

Exercise 02

Checks for the file day09_ex02.sql
- The SQL for trigger function

```
    CREATE OR REPLACE FUNCTION fnc_trg_person_delete_audit( )
    RETURNS TRIGGER AS
    $BODY$
    BEGIN
    INSERT INTO person_audit(created, type_event, row_id, name, age, gender, address)
    VALUES(current_timestamp,'D', OLD.id, OLD.name, OLD.age, OLD.gender, OLD.addres
s);
    RETURN NULL;
    END;
    $BODY$
    LANGUAGE plpgsql;
```

- The SQL for trigger

```
    CREATE  TRIGGER trg_person_delete_audit
    AFTER    DELETE ON person FOR EACH ROW
    EXECUTE FUNCTION  fnc_trg_person_delete_audit( );
```

- SQL to check

```
    select * from person_audit order by created;
```

- result of SQL

```
    "2022-03-21 20:27:40.283551 +00:00"  "I"  "10"     "Damir"  "22"     "male"   "Irk
    "2022-03-21 20:29:38.834865 +00:00"  "U"  "10"     "Damir"  "22"     "male"   "Irk
utsk
    "2022-03-21 20:29:39.333943 +00:00"  "U"  "10"     "Bulat"  "22"     "male"   "Irk
    "2022-03-21 20:29:39.333943 +00:00"  "D"  "10"     "Damir"  "22"     "male"   "Irk
utsk"
```

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No ✓ Yes

Exercise 03

Checks for the file day09_ex03.sql
- The SQL script looks like below.

```
DROP trigger trg_person_delete_audit on person;
DROP trigger trg_person_update_audit on person;
DROP trigger trg_person_insert_audit on person;

drop function fnc_trg_person_delete_audit();
drop function fnc_trg_person_update_audit();
drop function fnc_trg_person_insert_audit();

truncate person_audit;
```

- The SQL for trigger function

```
CREATE OR REPLACE FUNCTION fnc_trg_person_audit( )
RETURNS TRIGGER AS
$BODY$
BEGIN
IF (TG_OP = 'INSERT') THEN
   INSERT INTO person_audit(created, type_event, row_id, name, age, gender, address)
   VALUES(current_timestamp,'I', NEW.id, NEW.name, NEW.age, NEW.gender, NEW.addr
ess);
ELSEIF (TG_OP = 'UPDATE') THEN
   INSERT INTO person_audit(created, type_event, row_id, name, age, gender, address)
   VALUES(current_timestamp,'U', OLD.id, OLD.name, OLD.age, OLD.gender, OLD.addre
ss);
ELSE
   INSERT INTO person_audit(created, type_event, row_id, name, age, gender, address)
   VALUES(current_timestamp,'D', OLD.id, OLD.name, OLD.age, OLD.gender, OLD.addre
ss);
END IF;

RETURN NULL;
END;
$BODY$
LANGUAGE plpgsql;
```

- The SQL for trigger

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```
:RT ON person FOR EACH ROW
EXECUTE FUNCTION fnc_trg_person_audit( );
```

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```
select * from person_audit order by created;
```

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```
    "2022-03-21 20:33:30.826364 +00:00"  "I"  "10"     "Damir"  "22"     "male"   "Irk
utsk"
    "2022-03-21 20:33:31.282922 +00:00"  "U"  "10"     "Damir"  "22"     "male"   "Irk
utsk"
    "2022-03-21 20:33:31.746362 +00:00"  "U"  "10"     "Bulat"  "22"     "male"   "Irk
utsk"
    "2022-03-21 20:33:32.228181 +00:00"  "D"  "10"     "Damir"  "22"     "male"   "Irk
utsk"
```

No ✓ Yes

Exercise 04

Checks for the file day09_ex04.sql
- The SQL script looks like below.

```
    CREATE FUNCTION fnc_persons_female( )
    RETURNS TABLE(id    person.id%TYPE,
            name    person.name%TYPE,
            age    person.age%TYPE,
            gender    person.gender%TYPE,
            address    person.address%TYPE) AS $$
    SELECT id, name, age, gender, address
       FROM person
    WHERE gender= 'female';
    $$ LANGUAGE SQL;

    CREATE FUNCTION fnc_persons_male( )
    RETURNS TABLE(id    person.id%TYPE,
            name    person.name%TYPE,
            age    person.age%TYPE,
            gender    person.gender%TYPE,
            address    person.address%TYPE) AS $$
    SELECT id, name, age, gender, address
       FROM person
    WHERE gender= 'male';
    $$ LANGUAGE SQL;
```

- The SQL to check

```
    select * from fnc_persons_male();
```

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```
     2      Andrey    21          male      Moscow"
                                           Kazan"
                                           Saint-Petersburg"
                                    "    "Samara"
```

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```
    select * from fnc_persons_female();
```

- The result of SQL

```
"1"   "Anna"   "16"     "female" "Moscow"
"3"   "Kate"   "33"     "female" "Kazan"
"5"   "Elvira"  "45"     "female" "Kazan"
"6"   "Irina"   "21"     "female" "Saint-Petersburg"
"8"   "Nataly" "30"     "female" "Novosibirsk"
```

No ✓ Yes

Exercise 05

Checks for the file day09_ex05.sql
- The SQL script looks like below.

```
CREATE OR REPLACE FUNCTION fnc_persons(pgender varchar default 'female')
RETURNS TABLE(id    person.id%TYPE,
        name    person.name%TYPE,
        age    person.age%TYPE,
        gender    person.gender%TYPE,
        address    person.address%TYPE) AS $$
SELECT id, name, age, gender, address
   FROM person
WHERE gender= pgender;
$$ LANGUAGE SQL;
```

- The SQL to check

```
select * from fnc_persons(pgender := 'male');
```

- The result of SQL

```
"2"   "Andrey" "21"     "male"   "Moscow"
"4"   "Denis"  "13"     "male"   "Kazan"
"7"   "Peter"  "24"     "male"   "Saint-Petersburg"
"9"   "Dmitriy"     "18"     "male"   "Samara"
```

- The SQL to check

```
select * from fnc_persons();
```

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Exercise 06

Checks for the file day09_ex06.sql
- The SQL script looks like below.

```
        CREATE FUNCTION fnc_person_visits_and_eats_on_date(pperson varchar default 'Dmitri
y',
        pprice numeric default 500, pdate date default '2022-01-08')
        RETURNS TABLE(name    varchar) AS $$
        BEGIN
        RETURN QUERY
           select p.name as pizzeria_name
           from menu inner join pizzeria p on p.id = menu.pizzeria_id
              inner join person_visits pv on menu.pizzeria_id = pv.pizzeria_id
              inner join person p2 on p2.id = pv.person_id
           where price  < pprice and p2.name = pperson and visit_date = pdate;
        END;
        $$ LANGUAGE PLPGSQL;
```

- The SQL to check

```
    select * from fnc_person_visits_and_eats_on_date(pprice := 800);
```

- The result of SQL

```
    "Papa Johns"
    "DoDo Pizza"
```

- The SQL to check

```
    select *
    from fnc_person_visits_and_eats_on_date(pperson := 'Anna',pprice := 1300,pdate := '2022
-01-01');
```

- The result of SQL

```
    "Pizza Hut"
    "Pizza Hut"
    "Pizza Hut"
    "Pizza Hut"
```

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```
        CREATE FUNCTION func_minimum(VARIADIC arr NUMERIC[ ])
```

```
RETURNS NUMERIC AS
$$
SELECT min( i ) FROM unnest(arr) g( i );
$$ LANGUAGE SQL;
```

- The SQL to check

```
SELECT func_minimum(VARIADIC arr => ARRAY[10.0, -1.0, 5.0, 4.4]);
```

- The result of SQL

```
"-1"
```

No ✓ Yes

Exercise 08

Checks for the file day09_ex08.sql
- The SQL script looks like below.

```
CREATE OR REPLACE FUNCTION fnc_fibonacci(pstop integer default 10)
RETURNS TABLE(a    bigint) AS $$
WITH RECURSIVE f (a,b) AS
(SELECT 0 AS a, 1 AS b
UNION ALL
SELECT b, a+b FROM f WHERE b<pstop)
SELECT a
FROM f;
$$ LANGUAGE SQL;
```

- The SQL to check

```
select * from fnc_fibonacci(20)
```

- The result of SQL

```
"0"
"1"
"1"
"2"
"3"
"5"
```

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Feedback

Fails

Forbidden functions | Empty work | Cheat

Comment

Leave a comment...

Review

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