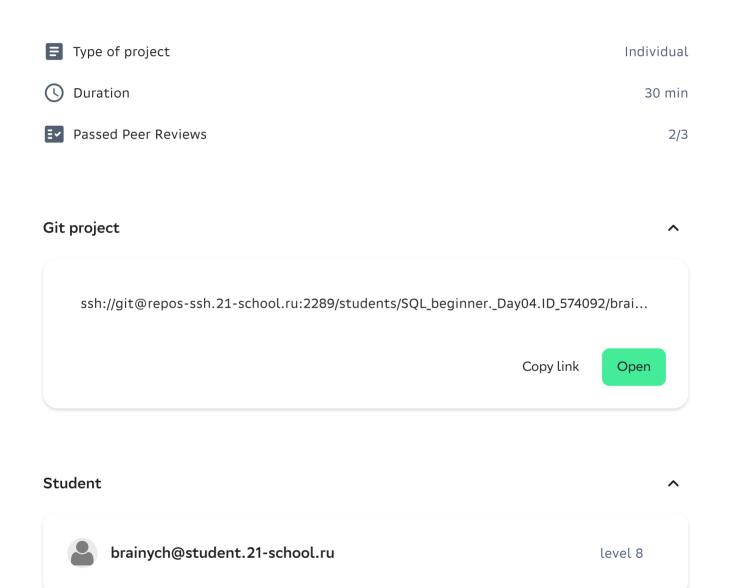
# ← Project review - SQL1 Bootcamp. Day04



# About

## Introduction

The methodology of School 21 makes sense only if peer-to-peer reviews are done seriously. Please read all guidelines carefully before starting the review.

- Please, stay courteous, polite, respectful 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 the scope of features. Please, stay open-minded to the vision of the other.



#### **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 proble ms 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 group.
- Meticulously check that nothing malicious has been used to mislead you.
- In controversial cases, remember that the checklist determines only the general order of the check. The final decision on project evaluation remains with the reviewer.

Main part

#### **Exercise 00**

Checks for the file day04\_ex00.sql

- The SQL script looks like below.

```
create view v_persons_female as
select *
from person
where gender= 'female';

create view v_persons_male as
select *
from person
where gender= 'male';
```

- The SQL script looks like below.

```
select *
from v_persons_female
order by 1
```

- The result is below (raw ordering should be the same like on a screen below)

```
"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"
```

- The SQL script looks like below.

```
select *
from v_persons_male
order by 1
```

- The result is below (raw ordering should be the same like on a screen below)

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

No Yes
```

## Exercise 01

Checks for the file day04\_ex01.sql

- The SQL script looks like below.

```
select name
from v_persons_female
union
select name
from v_persons_male
order by 1
```

- The result is below (raw ordering should be the same like below)

```
"Andrey"
"Anna"
"Denis"
"Dmitriy"
"Elvira"
"Irina"
"Kate"
"Nataly"
"Peter"
```

# Exercise 02

No

Checks for the file day04\_ex02.sql - The SQL script looks like below.

create view v\_generated\_dates as select g::date as generated\_date from generate\_series('2022-01-01','2022-01-31',interval '1 day') as g order by 1

- The check script is below.

```
select count(*) =31 as check,
  min(generated_date) as check1,
  max(generated_date) as check2
from v_generated_dates;
```

- The result is below (raw ordering should be the same like below)

```
true 2022-01-01 2022-01-31
```

No



#### Exercise 03

Checks for the file day04\_ex03.sql

- The SQL script looks like below.

```
select generated_date as missing_date from v_generated_dates except select visit_date from person_visits order by 1
```

- The result is below (raw ordering should be the same like below)

```
"2022-01-11"
"2022-01-12"
"2022-01-13"
"2022-01-14"
"2022-01-15"
"2022-01-16"
"2022-01-18"
"2022-01-19"
"2022-01-20"
"2022-01-21"
"2022-01-22"
"2022-01-23"
"2022-01-24"
"2022-01-25"
```

"2022-01-26" "2022-01-27"

```
"2022-01-28"
"2022-01-29"
"2022-01-30"
"2022-01-31"

No Yes
```

#### Exercise 04

Checks for the file day04\_ex04.sql - The SQL script looks like below.

```
create view v_symmetric_union as
(select person_id
from person_visits
where visit_date = '2022/01/02'
except
select person_id
from person_visits
where visit_date = '2022/01/06')
union
(select person_id
from person_visits
where visit_date = '2022/01/06'
except
select person_id
from person_visits
where visit_date = '2022/01/02')
```

- The SQL script looks like below.

```
select *
from v_symmetric_union
```

- The result is below (raw ordering should be the same like below)

```
"2"
"8"
```



order by 1

## Exercise 05

Checks for the file day04\_ex05.sql

- The SQL script looks like below.

create view v\_price\_with\_discount as
SELECT p.name,

```
m.pizza_name,
    m.price,
    round(m.price - m.price * 0.1) AS discount_price
FROM person_order
    JOIN person p ON p.id = person_order.person_id
    JOIN menu m ON m.id = person_order.menu_id
ORDER BY p.name, m.pizza_name
```

- The SQL script looks like below.

```
select *
from v price with discount
```

- The result is below (raw ordering should be the same like below)

```
"Andrey" "cheese pizza"
                           "800"
                                    "720"
"Andrey" "mushroom pizza" "1100"
                                   "990"
"Anna"
         "cheese pizza"
                           "900"
                                    "810"
"Anna"
         "pepperoni pizza" "1200"
                                   "1080"
"Denis"
        "cheese pizza"
                           "700"
                                   "630"
"Denis"
        "pepperoni pizza" "800"
                                   "720"
"Denis"
         "pepperoni pizza" "800"
                                    "720"
"Denis"
         "sausage pizza"
                          "1000"
                                   "900"
"Denis"
         "sicilian pizza"
                           "900"
                                    "810"
"Denis"
        "supreme pizza"
                          "850"
                                   "765"
"Dmitriy" "pepperoni pizza" "800"
                                    "720"
"Dmitriy" "supreme pizza"
                           "850"
                                    "765"
"Elvira"
        "pepperoni pizza" "800"
                                    "720"
"Elvira"
                          "1000"
                                   "900"
        "sausage pizza"
"Irina"
         "mushroom pizza" "950"
                                    "855"
"Irina"
         "sicilian pizza"
                          "900"
                                   "810"
"Kate"
                           "700"
         "cheese pizza"
                                    "630"
"Nataly" "cheese pizza"
                          "800"
                                   "720"
"Nataly" "pepperoni pizza" "1000"
                                    "900"
"Peter"
         "mushroom pizza" "1100"
                                    "990"
                                   "1080"
                          "1200"
"Peter"
         "sausage pizza"
"Peter"
         "supreme pizza"
                          "1200"
                                   "1080"
```

No



#### Exercise 06

Checks for the file day04\_ex06.sql

- The SQL script looks like below.

```
create materialized view mv_dmitriy_visits_and_eats as 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 < 800 and p2.name = 'Dmitriy' and visit_date = '2022-01-08'
```

- The SQL script looks like below.

```
select *
from mv_dmitriy_visits_and_eats
```

- The result is below (raw ordering should be the same like below)

"Papa Johns"





#### Exercise 07

Checks for the file day04\_ex07.sql

- The SQL script looks like below.

insert into person\_visits(id, person\_id, pizzeria\_id, visit\_date)

values( (select max(id)+1 from person\_visits),(select id from person where name= 'Dmi
triy'),

(select pizzeria.id from pizzeria inner join menu m on pizzeria.id = m.pizzeria\_id where price < 800 and m.pizza\_name!='Papa Johns' order by 1 limit 1),'2022-01-0 8');

refresh materialized view mv\_dmitriy\_visits\_and\_eats;

- The check script is below.

```
select *
from mv_dmitriy_visits_and_eats
```

- The result is below. Please ignore a value "DoDo Pizza", a value can be different from student

"DoDo Pizza"

"Papa Johns"





#### Exercise 08

Checks for the file day04\_ex08.sql

- The SQL script looks like below.

drop view v\_generated\_dates;

drop view v\_persons\_female;

drop view v\_persons\_male;

drop view v\_price\_with\_discount;

drop view v\_symmetric\_union;

drop materialized view mv\_dmitriy\_visits\_and\_eats;

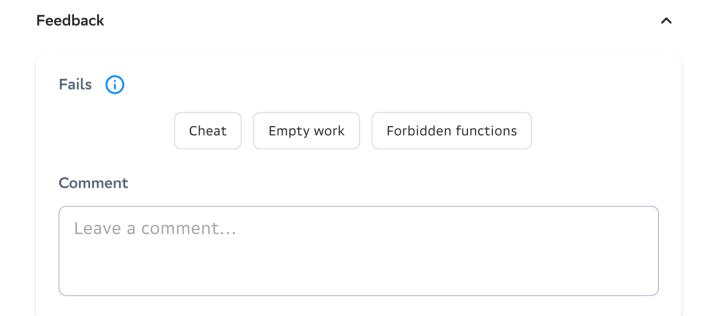
- The SQL script looks like below.

select count(\*) =0 as check
from pg\_class
where relname in ('v\_generated\_dates','v\_persons\_female','v\_persons\_male',
'v\_price\_with\_discount','v\_symmetric\_union', 'mv\_dmitriy\_visits\_and\_eats')

- The result is below (raw ordering should be the same like below)

"true"

No ✓ Yes



✓ Review