1. Задание.

Выполнила.

1. Задание.

Пусть задан некоторый пользователь.

Из всех друзей этого пользователя найдите человека, который больше всех общался с нашим пользователем.

-- Выберем id друзей

SELECT \* FROM friendship WHERE user\_id = 3 OR friend\_id = 3;

-- В один столбец

SELECT friend\_id AS id FROM friendship WHERE user\_id = 3

UNION

SELECT user\_id AS id FROM friendship WHERE friend\_id = 3;

-- Выбираем id отправителей сообщений

SELECT from\_user\_id FROM messages

WHERE to\_user\_id = 3

AND from\_user\_id IN (

SELECT friend\_id AS id FROM friendship WHERE user\_id = 3

UNION

SELECT user\_id AS id FROM friendship WHERE friend\_id = 3);

-- Добавляем имя

SELECT (SELECT CONCAT(first\_name, ' ', last\_name) FROM users WHERE id = from\_user\_id) AS friend

FROM messages

WHERE to\_user\_id = 3

AND from\_user\_id IN (

SELECT friend\_id AS id FROM friendship WHERE user\_id = to\_user\_id

UNION

SELECT user\_id AS id FROM friendship WHERE friend\_id = to\_user\_id);

-- Добавляем подсчёт и сортировку

SELECT (SELECT CONCAT(first\_name, ' ', last\_name) FROM users WHERE id = from\_user\_id) AS friend,

COUNT(\*) AS total\_messages

FROM messages

WHERE to\_user\_id = 3

AND from\_user\_id IN (

SELECT friend\_id AS id FROM friendship WHERE user\_id = to\_user\_id

UNION

SELECT user\_id AS id FROM friendship WHERE friend\_id = to\_user\_id)

GROUP BY messages.from\_user\_id

ORDER BY total\_messages DESC

LIMIT 1;

1. Задание.

Подсчитать общее количество лайков, которые получили 10 самых молодых пользователей.

-- Смотрим типы для лайков

SELECT \* FROM target\_types;

-- Выбираем профили с сортировкой по дате рождения

SELECT \* FROM profiles ORDER BY birthday DESC LIMIT 10;

-- Выбираем лайки по типу пользователь

SELECT \* FROM likes WHERE target\_type\_id = 2;

-- Объединяем, но так не работает

SELECT \* FROM likes WHERE target\_type\_id = 2

AND target\_id IN (

SELECT user\_id FROM profiles ORDER BY birthday DESC LIMIT 10);

-- Идём обходным путём

SELECT target\_id, COUNT(\*) FROM likes

WHERE target\_type\_id = 2

AND target\_id IN (SELECT \* FROM (

SELECT user\_id FROM profiles ORDER BY birthday DESC LIMIT 10

) AS sorted\_profiles )

GROUP BY target\_id;

-- Суммируем для всех пользователей

SELECT SUM(likes\_per\_user) AS likes\_total FROM (

SELECT COUNT(\*) AS likes\_per\_user

FROM likes

WHERE target\_type\_id = 2

AND target\_id IN (

SELECT \* FROM (

SELECT user\_id FROM profiles ORDER BY birthday DESC LIMIT 10

) AS sorted\_profiles

)

GROUP BY target\_id

) AS counted\_likes;

1. Задание.

Определить кто больше поставил лайков (всего) - мужчины или женщины?

(SELECT 'f', COUNT(id) FROM likes WHERE user\_id IN (SELECT user\_id FROM profiles WHERE sex = 'f')) UNION (SELECT 'm', COUNT(id) FROM likes WHERE user\_id IN (SELECT user\_id FROM profiles WHERE sex = 'm'));

\*\*\* правильно

SELECT CASE(sex)

WHEN 'm' THEN 'man'

WHEN 'f' THEN 'woman'

END AS sex,

COUNT(\*) as likes\_count

FROM (

SELECT

user\_id as user,

(SELECT sex FROM profiles WHERE user\_id = user) as sex

FROM likes) dummy\_table

GROUP BY sex

ORDER BY likes\_count DESC

LIMIT 1;

1. Задание.

Найти 10 пользователей, которые проявляют наименьшую активность в использовании социальной сети.

SELECT CONCAT(first\_name, ' ', last\_name) AS user,

(SELECT COUNT(\*) FROM likes WHERE likes.user\_id = users.id) +

(SELECT COUNT(\*) FROM media WHERE media.user\_id = users.id) +

(SELECT COUNT(\*) FROM messages WHERE messages.from\_user\_id = users.id)

AS overall\_activity

FROM users

ORDER BY overall\_activity

LIMIT 10;