

Привет! Я Канделов Дамир Русланович из 22Пи-1, вот мой отчетик:

Use your knowledge of the database schema and SQL commands to find out who committed the murder.  
When you think you know the answer, go to the next section.

```
1 SELECT *
2 FROM crime_scene_report
3 WHERE date = 20180115 AND type = 'murder' AND city = 'SQL City'
```

RUN ↴

RESET

date	type	description	city
20180115	murder	Security footage shows that there were 2 witnesses. The first witness lives at the last house on "Northwestern Dr". The second witness, named Annabel, lives somewhere on "Franklin Ave".	SQL City

По данным из условия находим запись преступления и получаем данные двух свидетелей.

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```
1 SELECT *
2 FROM person
3 WHERE address_street_name = 'Northwestern Dr'
4 ORDER BY address_number DESC
```

RUN ↴

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id	name	license_id	address_number	address_street_name	ssn
14887	Morty Schapiro	118009	4919	Northwestern Dr	111564949
17729	Lasonya Wildey	439686	3824	Northwestern Dr	917817122
53890	Sophie Tiberio	957671	3755	Northwestern Dr	442830147
73368	Torie Thalmann	773862	3697	Northwestern Dr	341559436

Первый свидетель живет в последнем доме по Northwestern Dr, поэтому сортируем дома в обратном порядке => первый наш свидетель – Morty Schapiro.

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```
1 SELECT *
2 FROM interview
3 WHERE person_id = 14887
```

RUN ↴

RESET

person_id	transcript
14887	I heard a gunshot and then saw a man run out. He had a "Get Fit Now Gym" bag. The membership number on the bag started with "48Z". Only gold members have those bags. The man got into a car with a plate that included "H42W".

По его id получаем результаты его допроса, узнаем, что membership\_number подозреваемого начинается с 48Z, а в номере машины есть H42W.

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```
1 SELECT *
2 FROM person
3 WHERE name LIKE '%Annabel%' AND address_street_name = 'Franklin Ave'
```

RUN ↴

RESET

id	name	license_id	address_number	address_street_name	ssn
16371	Annabel Miller	490173	103	Franklin Ave	318771143

Находим второго свидетеля по имени и названию улицы.

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```
1 SELECT *
2 FROM interview
3 WHERE person_id = 16371
```

RUN ↴

RESET

person_id	transcript
16371	I saw the murder happen, and I recognized the killer from my gym when I was working out last week on January the 9th.

Получаем результаты ее допроса по id. Узнаем дату, когда подозреваемый был в спортзале.

Use your knowledge of the database schema and SQL commands to find out who committed the murder.  
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```
1 SELECT *
2 FROM get_fit_now_check_in
3 WHERE check_in_date = 20180109 AND membership_id LIKE '48Z%'
```

RUN ↴

RESET

membership_id	check_in_date	check_in_time	check_out_time
48Z7A	20180109	1600	1730
48Z55	20180109	1530	1700

Проверяем, кто был в эту дату в спортзале, и из показаний первого свидетеля знаем, что membership\_id начинается с 48Z. Узнаем имена обоих по id из Базы клуба.

Use your knowledge of the database schema and SQL commands to find out who committed the murder.  
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```
1 SELECT *
2 FROM get_fit_now_member
3 WHERE id = '48Z7A'
```

RUN ↴

RESET

id	person_id	name	membership_start_date	membership_status
48Z7A	28819	Joe Germuska	20160305	gold

Это первый подозреваемый – Joe Germuska.

Use your knowledge of the database schema and SQL commands to find out who committed the murder.  
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```
1 SELECT *
2 FROM get_fit_now_member
3 WHERE id = '48Z55'
```

RUN ↴

RESET

id	person_id	name	membership_start_date	membership_status
48Z55	67318	Jeremy Bowers	20160101	gold

Это второй подозреваемый – Jeremy Bowers. Один из них убийца.

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```
1 SELECT *
2 FROM drivers_license
3 WHERE plate_number LIKE '%H42W%' AND gender = 'male'
```

RUN ↴

RESET

id	age	height	eye_color	hair_color	gender	plate_number	car_make	car_model
423327	30	70	brown	brown	male	0H42W2	Chevrolet	Spark LS
664760	21	71	black	black	male	4H42WR	Nissan	Altima

Из показаний первого свидетеля, проверяем машину в базе данных по номеру. Свидетели говорят, что видели мужчину + среди подозреваемых только мужчины. Получаем два idшника людей, посмотрим, кто это такие.

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```
1 SELECT *
2 FROM person
3 WHERE license_id = 664760
```

RUN ↴

RESET

id	name	license_id	address_number	address_street_name	ssn
51739	Tushar Chandra	664760	312	Phi St	137882671

Этот человек не в нашем списке подозреваемых, проверяем второго.

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When you think you know the answer, go to the next section.

```
1 SELECT *
2 FROM person
3 WHERE license_id = 423327
```

RUN ↴

RESET

id	name	license_id	address_number	address_street_name	ssn
67318	Jeremy Bowers	423327	530	Washington Pl, Apt 3A	871539279

А это наш второй подозреваемый – Jeremy Bowers. Все совпало, проверяем ответ.

Did you find the killer?

```
1 INSERT INTO solution VALUES (1, 'Jeremy Bowers');
2
3 SELECT value FROM solution;
```

RUN ↴

RESET

value

Congrats, you found the murderer! But wait, there's more... If you think you're up for a challenge, try querying the interview transcript of the murderer to find the real villain behind this crime. If you feel especially confident in your SQL skills, try to complete this final step with no more than 2 queries. Use this same INSERT statement with your new suspect to check your answer.

Ура, мы угадали... или нет... Посмотрим показания этого киллера.

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When you think you know the answer, go to the next section.

```
1 SELECT *
2 FROM interview
3 WHERE person_id = 67318
```

RUN ↴

RESET

person_id	transcript
67318	I was hired by a woman with a lot of money. I don't know her name but I know she's around 5'5" (65") or 5'7" (67"). She has red hair and she drives a Tesla Model S. I know that she attended the SQL Symphony Concert 3 times in December 2017.

Получаем данные о девушке, делаем большой и красивый запрос, с этими данными.

Use your knowledge of the database schema and SQL commands to find out who committed the murder.

When you think you know the answer, go to the next section.

```
1 SELECT name
2 FROM person
3 WHERE license_id in (
4     SELECT id
5     FROM drivers_license
6     WHERE height BETWEEN 65 AND 67 AND hair_color = 'red'
7     AND gender = 'female' AND car_make = 'Tesla' AND car_model = 'Model S'
8 ) AND id in (
9     SELECT person_id
10    FROM facebook_event_checkin
11    WHERE event_name = 'SQL Symphony Concert' AND date BETWEEN 20171201
12    AND 20171231
13    GROUP BY person_id
14    HAVING COUNT(date) >= 3
15 )
```

RUN ↴

RESET

name
Miranda Priestly

Данные о цвете волос, росте и машине в таблице drivers\_license => вытягиваем оттуда подходящих, а еще мы знаем, что она посещала концерт 3 раза, который в таблице facebook\_event\_checkin. На выходе всего одно имя – наш заказчик.

Did you find the killer?

```
1 INSERT INTO solution VALUES (1, 'Miranda Priestly');
2
3 SELECT value FROM solution;
```

RUN ↴

RESET

value
Congrats, you found the brains behind the murder! Everyone in SQL City hails you as the greatest SQL detective of all time. Time to break out the champagne!

Проверяем, и о да! Это она)