



SQL Murder mystery



corresponding crime scene report from the police department's database.

```
select *
from crime_scene_report
where date=20180115
and type='murder' and
city='SQL City'
## crime report
```

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

first witness details

```
select *
from person
where address_street_name like 'Northwestern Dr' and address_number in(select max(address_number
```

id	name	license_id	address_number	address_street_name	ssn
14887	Morty Schapiro	118009	4919	Northwestern Dr	111564949

interview

```
select *
from interview
where person_id= 14887
```

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".

person matching above dsec

```
select *
from get_fit_now_member gf
left join person p
on gf.person_id=p.id
left join drivers_license dl
on p.license_id=dl.id
where gf.id like '48Z%'
and plate_number like '%H42W%'
```

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

second witness details

```
select *
from person
where (name like '%Annabel%' and address_street_name like 'Franklin Ave')
```

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

```
#interview of 2nd
select *
from interview
where person_id=16371
```

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.



get annabel gym timings on above day

```
select *
from get_fit_now_member fn
inner join get_fit_now_check_in fc
on fn.id=fc.membership_id
where check_in_date = 20180109
and person_id=16371
```

id	person_id	name	membership_start_date	membership_status	membership_id	check_in_date
90081	16371	Annabel Miller	20160208	gold	90081	20180109

get all the members checked out after her checkin

```
select *
from get_fit_now_member fn
inner join get_fit_now_check_in fc
on fn.id=fc.membership_id
where check_in_date = 20180109
and check_out_time>1600
```

id	person_id	name	membership_start_date	membership_status	membership_id	check_in_date
48Z7A	28819	Joe Germuska	20160305	gold	48Z7A	20180109
48Z55	67318	Jeremy Bowers	20160101	gold	48Z55	20180109
90081	16371	Annabel Miller	20160208	gold	90081	20180109

interview (killer) — person matching both the witness



```
select *
from interview
where person_id in (67318)
```

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.

above people

```
select *
from person
where id in (67318)
```

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

::: success 🎉

Found murderer

```
INSERT INTO solution VALUES (1, 'Jeremy Bowers');

SELECT value FROM solution;
```

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.

person matching killers desc

```
select *
from drivers_license dl
left join person p
on p.license_id=dl.id
left join income i
on p.ssn=i.ssn
left join facebook_event_checkin fec
on p.id=fec.person_id
where fec.date between 20171201 and 20171231
and event_name='SQL Symphony Concert'
and height between 65 and 67
and gender = 'female'
and hair_color='red'
and car_make='Tesla'
limit 1
```

id	age	height	eye_color	hair_color	gender	plate_number	car_make
202298	68	66	green	red	female	500123	Tesla



found the murder and villain



```
INSERT INTO solution VALUES (1, 'Miranda Priestly');
```

```
SELECT value FROM solution;
```



Congratulations on cracking the SQL murder mystery!

::: info 💡

This showcases your exceptional skills in SQL and problem-solving.

:::

::: success 

Everyone in SQL City hails you as the greatest SQL detective of all time. Time to break out the champagne!

:::

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!
