Murder- 2018/01/15- SQL city

Crime_scene_report dataset

```
select *
from crime_scene_report
where type ='murder' and city like '%sql%'
```

date	type	description	city
20180215	murder	REDACTED REDACTED REDACTED	SQL City
20180215	murder	Someone killed the guard! He took an arrow to the knee!	SQL 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:

```
select *
from person
where address_street_name like '%franklin%' and name like '%anna%'
```

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

Second witness:

```
select *
from person
where address_street_name like '%northwestern%'
order by address_number desc
limit 1
```

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

Interviewing the witnesses:

```
select *
from interview
where person_id in (14887,16371)
```

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".
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.

From the interviews, we have few leads: Next we would need to check the car plate data and the gym membership data.

Drilling through license data: we get two male persons of them-

select *
from drivers_license
where plate_number like '%h42w%'

id	age	height	eye_color	hair_color	gender	plate_number	car_make	car_model
183779	21	65	blue	blonde	female	H42W0X	Toyota	Prius
423327	30	70	brown	brown	male	0H42W2	Chevrolet	Spark LS
664760	21	71	black	black	male	4H42WR	Nissan	Altima

Now, lets analyse the Gym membership data as well:

select *
from get_fit_now_member
where id like '48Z%'

id	person_id	name	membership_start_date	membership_status
48Z38	49550	Tomas Baisley	20170203	silver
48Z7A	28819	Joe Germuska	20160305	gold
48Z55	67318	Jeremy Bowers	20160101	gold

Now, we have few names, lets combine the data from license dataset and gym membership data and see if we have something in common:

select p.id as person_id, p.name as name, plate_number, gym.id
from person as p
join drivers_license as dl
on p.license_id = dl.id
join get_fit_now_member as gym
on gym.person_id = p.id
where dl.plate_number like '%h42w%' and gym.id like '%48z%'

person_id	name	plate_number	id
67318	Jeremy Bowers	0H42W2	48Z55

Mr. Jeremy Bowers is the murderer and below are the details:

person_id	name	plate_number	gym_id	age	address_number	address_street_name
67318	Jeremy Bowers	0H42W2	48Z55	30	530	Washington Pl, Apt 3A

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.

But wait, we have something else here in this challenge:

Lets run the interview transcripts of Jeremy Bowers our murder:

select *
from interview
where person_id = 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.

After querying the database for the details given by Jeremy we have below details:

```
select *

from drivers_license dl

join person p

on p.license_id=dl.id

join facebook_event_checkin as fb

on fb.person_id = p.id

where gender='female'and hair_color='red'and car_make='Tesla'
```

hair_color	gender	plate_number	car_make	car_model	id	name	license_id	address_numb
red	female	500123	Tesla	Model S	99716	Miranda Priestly	202298	1883
red	female	500123	Tesla	Model S	99716	Miranda Priestly	202298	1883
red	female	500123	Tesla	Model S	99716	Miranda Priestly	202298	1883

So, Miranda Priestly is the brain behind the murder. She is 68 years old. Lets see if we can find the interview transcripts of her.. but we haven't found anything else!

We got the murder and the person behind it. Both Jeremy and Miranda Priestly are arrested and got punished.