

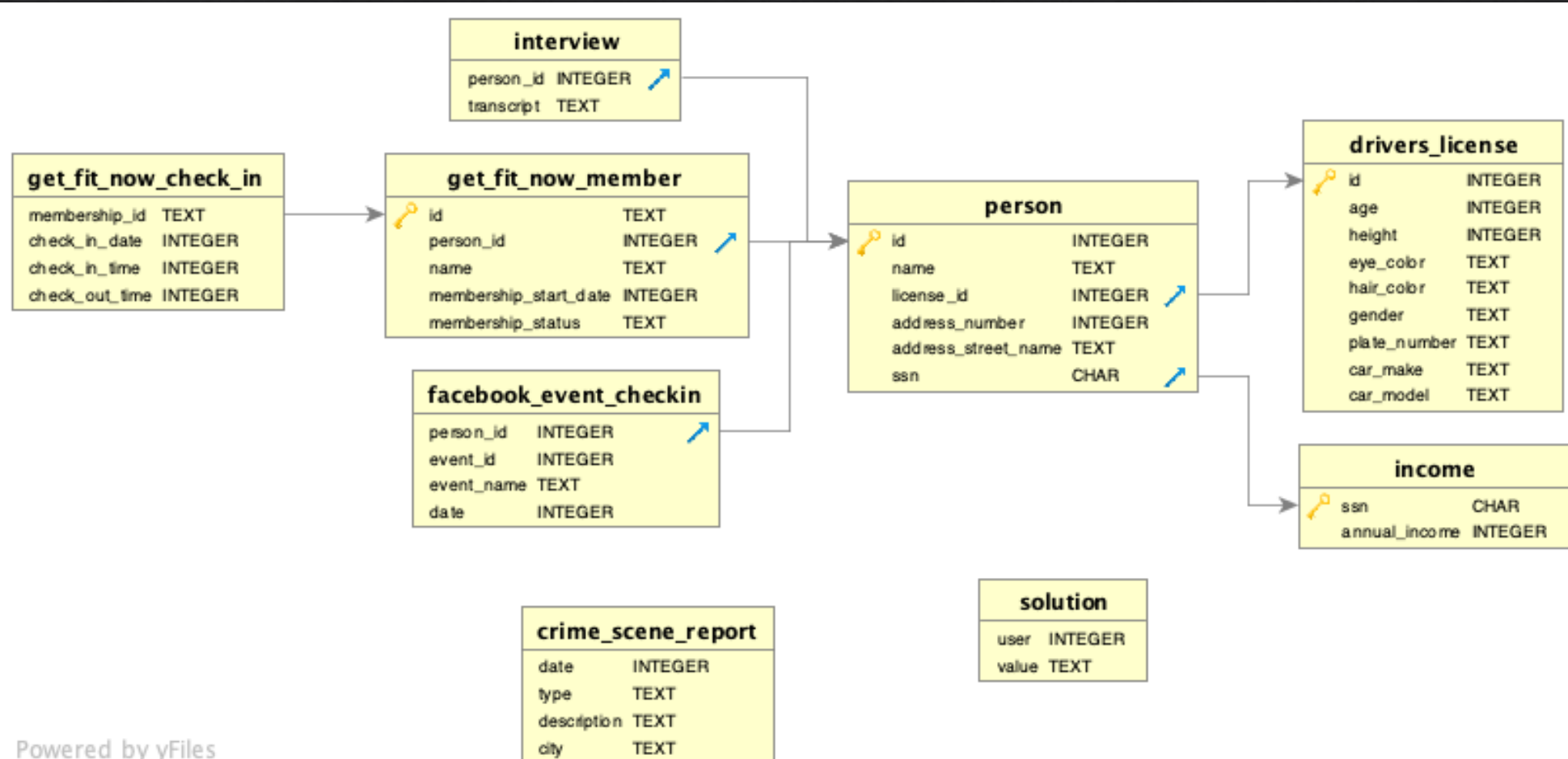
# SQL MURDER MISTRY

*Can you find out whodunnit?*

# Murder Description

A crime has taken place and the detective needs your help. The detective gave you the crime scene report, but you somehow lost it. You vaguely remember that the crime was a murder that occurred sometime on Jan.15, 2018 and that it took place in SQL City. Start by retrieving the corresponding crime scene report from the police department's database.

# SCHEMA



- Checking the Crime Scene Report

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 * FROM crime_scene_report
2
```

RUN ↴

RESET

date	type	description	city
20180115	robbery	A Man Dressed as Spider-Man Is on a Robbery Spree	NYC
20180115	murder	Life? Dont talk to me about life.	Albany
20180115	murder	Mama, I killed a man, put a gun against his head...	Reno
20180215	murder	REDACTED REDACTED REDACTED	SQL City
20180215	murder	Someone killed the guard! He took an arrow to the knee!	SQL City
20180115	theft	Big Bully stole my lunch money!	Chicago

```
1 SELECT *
2 FROM crime_scene_report
3 WHERE date = '20180115'
4     AND city = 'SQL City'
5     AND type = 'murder';
6
7
```

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

## 2 Witnesses:

- 1) The first witness lives at the last house on "Northwestern Dr".
- 2) The second witness, named Annabel, lives somewhere on "Franklin Ave".



## Witness 1

```
1 SELECT *
2 FROM person
3 where address_street_name like 'Northwestern Dr'
4 order by address_number desc
5 limit 1
6
```

RUN ↴

RESET

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

## Witness 2

```
1 SELECT * from person
2 where address_street_name like 'Franklin Ave'
3 and name like 'Annabel%'
4
```

RUN ↴

RESET

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

Looking for the statements given by 2 witnesses in the Interview table!

```
1 SELECT p.id as person_id,p.name,i.transcript from person p
2 inner join interview i
3 on p.id=i.person_id
4 where p.id in (16371,14887)
5
```

RUN ↴

RESET

person_id	name	transcript
14887	Morty Schapiro	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	Annabel Miller	I saw the murder happen, and I recognized the killer from my gym when I was working out last week on January the 9th.

Witness Name	Interview Statement
Annabel Miller	I saw the murder happen, and I recognized the killer from my gym when I was working out last week on <b>January the 9th</b> .
Morty Schapiro	I heard a gunshot and then saw a man run out. He had a " <b>Get Fit Now Gym</b> " bag. The membership number on the bag started with " <b>48Z</b> ". Only <b>gold</b> members have those bags. The man got into a car with a plate that included " <b>H42W</b> ".

```

1 SELECT * from get_fit_now_member
2 where id like '48Z%'
3 and membership_status ='gold'
4

```

RUN ↴

RESET

id	person_id	name	membership_start_date	membership_status
48Z7A	28819	Joe Germuska	20160305	gold
48Z55	67318	Jeremy Bowers	20160101	gold

```

1 SELECT p.name,p.license_id,d.plate_number,p.id as person_id from person p
2 inner join drivers_license d
3 on p.license_id=d.id
4 where p.id in (28819,67318)
5

```

RUN ↴

RESET

name	license_id	plate_number	person_id
Jeremy Bowers	423327	0H42W2	67318

# Murderer!

The investigation done based on the details given by Morty Schapiro point out to the Person named 'Jeremy Bowers'

Lets check if the finding is right.

```
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.



# Finding the Real *VILLAIN*

Need to check the interview statement given by the murderer...

```
1 SELECT p.name,i.person_id,i.transcript from interview i
2 inner join person p
3 on p.id=i.person_id
4 where person_id =67318
5
```

RUN ↴

RESET

name	person_id	transcript
Jeremy Bowers	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.

**Interview statement:** 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.

```

1 select * from drivers_license
2 where car_make like 'Tesla' and
3 car_model like 'Model S' and
4 hair_color like 'red' and
5 gender like 'female' and
6 height between 65 and 67

```

RUN ↴

RESET

id	age	height	eye_color	hair_color	gender	plate_number	car_make	car_model
202298	68	66	green	red	female	500123	Tesla	Model S
291182	65	66	blue	red	female	08CM64	Tesla	Model S
918773	48	65	black	red	female	917UU3	Tesla	Model S

```

1 select p.id as person_id, p.name,d.id as license_id,d.plate_number from person p
2 inner join drivers_license d
3 on p.license_id=d.id
4 where d.id in (202298,291182,918773)
5

```

RUN ↴

RESET

person_id	name	license_id	plate_number
99716	Miranda Priestly	202298	500123
90700	Regina George	291182	08CM64
78881	Red Korb	918773	917UU3

```

1 select p.name,f.event_id,f.date,f.event_name from facebook_event_checkin f
2 inner join person p
3 on p.id=f.person_id
4 where person_id in (99716,90700,78881)
5

```

RUN ↴

RESET

name	event_id	date	event_name
Miranda Priestly	1143	20171206	SQL Symphony Concert
Miranda Priestly	1143	20171212	SQL Symphony Concert
Miranda Priestly	1143	20171229	SQL Symphony Concert

# *Brain behind Murder*

- ❖ After investigating the person table, driving license table & Facebook event table found out a woman named “**Miranda Priestly**” could be the brain behind the murder.
- ❖ Lets check the result...

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!