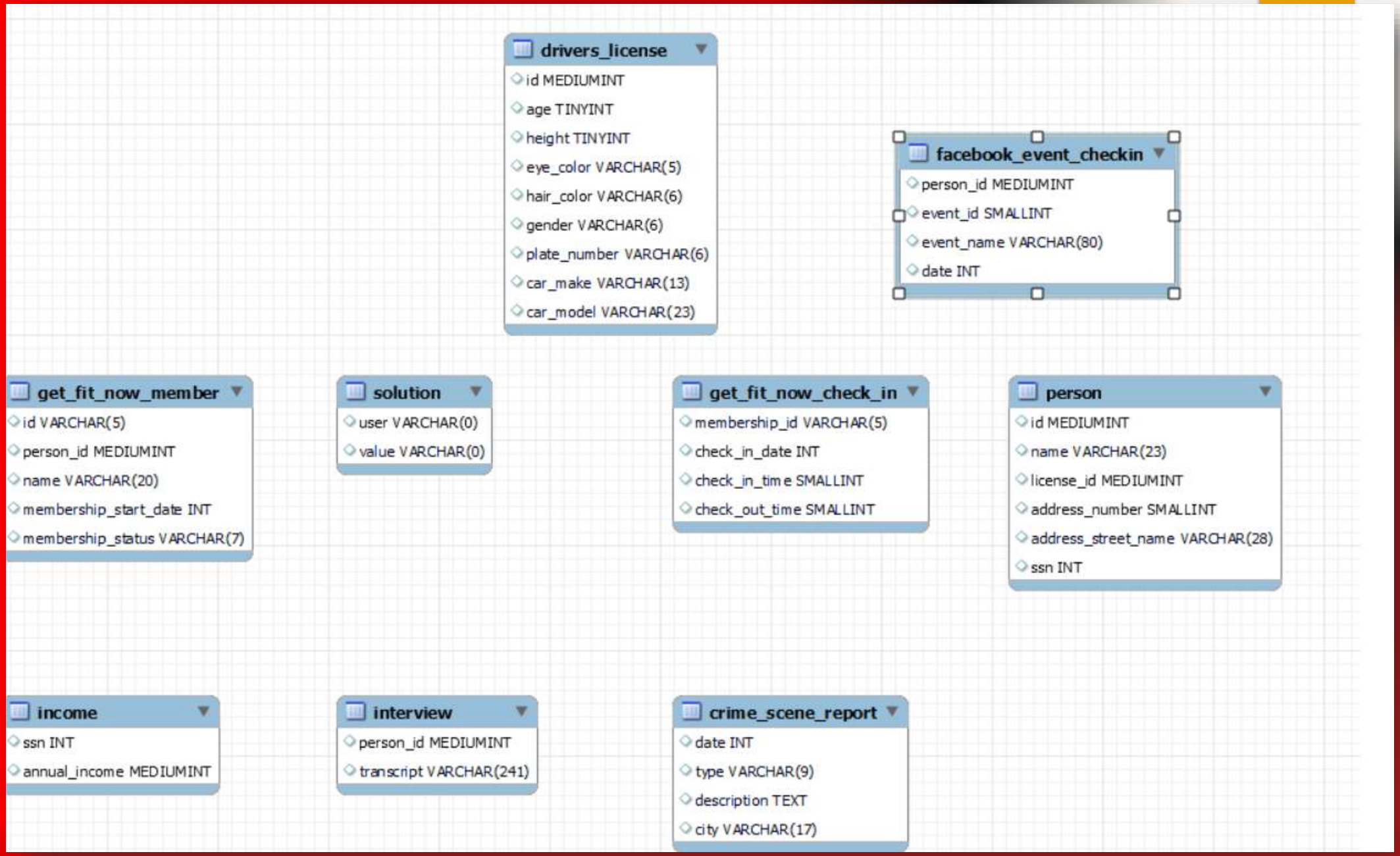
Murder Mystery in SQL

THERE'S BEEN A 112 JANUARY 2024MURDER IN SQL CITY! THE SQL MURDER MYSTERY IS DESIGNED TO BE BOTH A SELF-DIRECTED LESSON TO LEARN SQL CONCEPTS AND COMMANDS AND A FUN GAME FOR EXPERIENCED SQL USERS TO SOLVE AN INTRIGUING CRIME.


drivers_license
id MEDIUMINT
age TINYINT
height TINYINT
eye_color VARCHAR(5)
hair_color VARCHAR(6)
gender VARCHAR(6)
plate_number VARCHAR(6)
car_make VARCHAR(13)
car_model VARCHAR(23)
facebook_event_checkin
person_id MEDIUMINT
event_id SMALLINT
event_name VARCHAR(80)
date INT
get_fit_now_member
id VARCHAR(5)
person_id MEDIUMINT
name VARCHAR(20)
membership_start_date INT
membership_status VARCHAR(7)
solution
user VARCHAR(0)
value VARCHAR(0)
get_fit_now_check_in
membership_id VARCHAR(5)
check_in_date INT
check_in_time SMALLINT
check_out_time SMALLINT
person
id MEDIUMINT
name VARCHAR(23)
license_id MEDIUMINT
address_number SMALLINT
address_street_name VARCHAR(28)
ssn INT
income
ssn INT
annual_income MEDIUMINT
interview
person_id MEDIUMINT
transcript VARCHAR(241)
crime_scene_report
date INT
type VARCHAR(9)
description TEXT
city VARCHAR(17)

Retrieving Data

The Murder was Happened
City-SQL
Date-15 January 2018

SQL Query:

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

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

date	type	description
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".

Finding the Witness

Searching for Witness No1

SQL Query:

```
SELECT * FROM person WHERE
address_street_name = 'Northwestern Dr' ORDER
BY address_number DESC LIMIT 1;
```

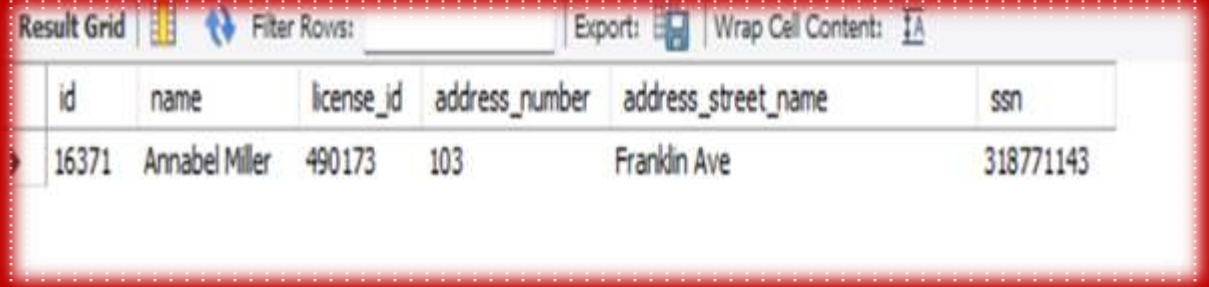
Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

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

Searching for Witness 2
SQL Query:

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

Result


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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

Interviewing the Witnesses

SQL Query:
SELECT * FROM interview WHERE person_id IN (14887,16371)

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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 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.

ID 14887 keynotes:

- Gold Membership of GET FIT NOW GYM
- Membership Number Starting with 48Z
- Has car with number plate including H42W

ID 16371 Keynotes:

- Gym Checkin on 9 january 2018

SEARCHING FOR THE MURDERER

Solving the Clue no 2

MURDER MYSTERY

SQL Query:

```
SELECT p.*,gfn.membership_start_date,gfn.membership_status FROM person as p
INNER JOIN drivers_license as dl on dl.id = p.license_id
INNER JOIN get_fit_now_member as gfn on p.id = gfn.person_id
INNER JOIN get_fit_now_check_in as gfc on gfc.membership_id = gfn.id
WHERE plate_number LIKE '%H42W%' AND gender = 'male' AND membership_status = 'gold'
AND gfn.id LIKE '48Z%' AND check_in_date = 20180109;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

id	name	license_id	address_number	address_street_name	ssn	membership_start_date	membership_status
67318	Jeremy Bowers	423327	530	Washington Pl, Apt 3A	871539279	20160101	gold

Who was the murderer

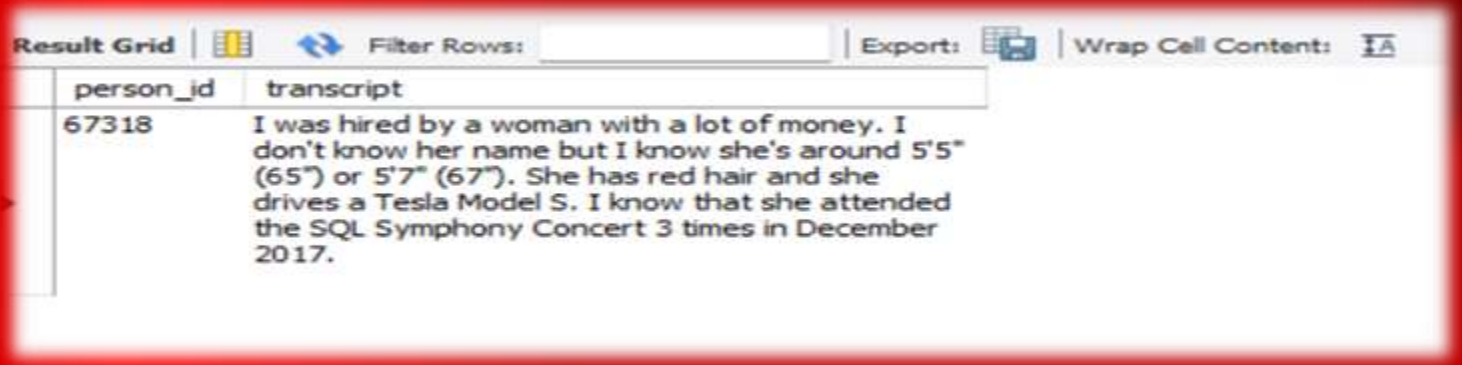
The Murderer – Jeremy Bowers

Note-There is more challenge , Try querying the interview of the Murderer to find the real Villain.

Interviewing The Murderer(Jeremy Bowers)

SQL Query:

```
SELECT * FROM interview WHERE person_id = 67318
```


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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.

Searching For The Real Villain

SQL Query:

```
SELECT p.*, dl.car_make, dl.car_model, dl.hair_color, dl.height,
inc.annual_income
FROM person as p INNER JOIN income as inc on inc.ssn = p.ssn
INNER JOIN drivers_license as dl on dl.id = p.license_id
INNER JOIN facebook_event_checkin as fec on p.id = fec.person_id
WHERE car_make = 'Tesla' AND car_model = 'Model S'
AND hair_color = 'red' AND height BETWEEN 65 AND 67
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

id	name	license_id	address_number	address_street_name	ssn	car_make	car_model	hair_color	height	annual_income
99716	Miranda Priestly	202298	1883	Golden Ave	987756388	Tesla	Model S	red	66	310000
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REAL VILLAIN , THE MASTERMIND IS – MIRANDA PRIESTLY