

# Unravelling the Murder Mystery

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# A heinous Crime has been committed in SQL City



The detective report is missing



January 15,  
2018

All that remains are vague recollections - an elusive memory of a fateful day



# USING THE EXTENSIVE DATABASE AT THE LOCAL POLICE DEPARTMENT

## SQL QUERIES

Served as an investigative tool to manage and analyze relational databases

## CRIME SCENE REPORT

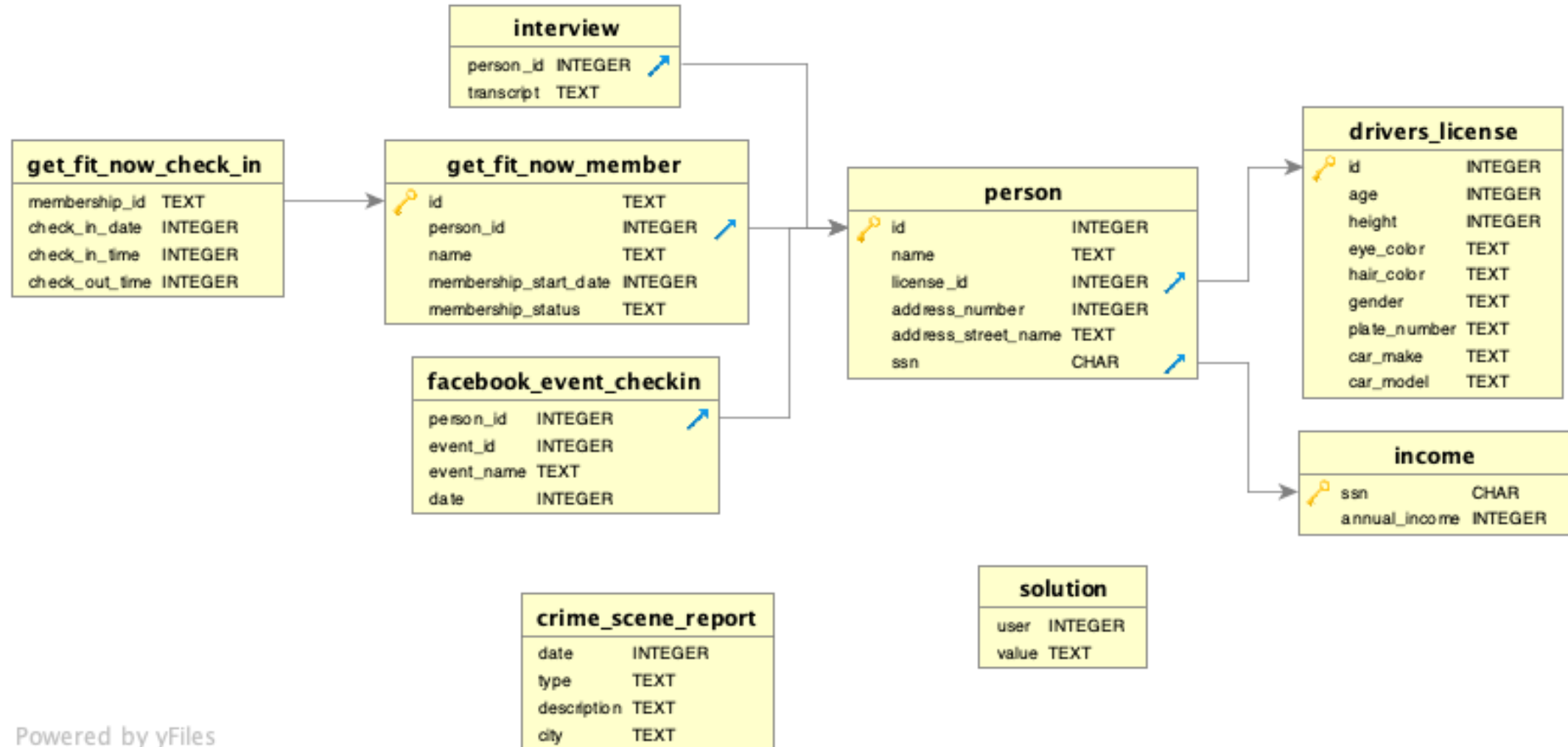
Provided essential details about the crime and potential lead

## DATA-DRIVEN APPROACH

Served as the guiding force in unraveling the mystery



# SCHEMA DIAGRAM



## CRIME SCENE REPORT RETRIEVAL

From the crime scene report

This is a murder committed on January 15, 2018, in SQL City

*“security footage shows that there were 2 WITNESSES.*

*The first lives at the last house on "northwestern dr".*

*The second, named Annabel, lives somewhere on “Franklin Ave”.*





## PROFILING THE EYEWITNESS

```
10 SELECT *
11 FROM person
12 WHERE address_street_name = "Northwestern Dr"
13 ORDER BY address_number DESC
14 LIMIT 1;
```

id	name	license_id	address_nu...	address_stre...	ssn
14887	Morty Schapiro	118009	4919	Northwestern Dr	111564949

```
16 -- For the second witness
17 SELECT *
18 FROM person
19 WHERE name LIKE "Annabel%"
20 AND address_street_name = "Franklin Ave";
```

id	name	license_id	address_nu...	address_stre...	ssn
16371	Annabel Miller	490173	103	Franklin Ave	318771143

## Witness testimonies

1<sup>st</sup>: "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"**."

2<sup>nd</sup>: "I saw the murder happen, and I recognized the killer from my gym when I was working out last week **January 9th.**"

KEY POINTS FROM THE WITNESS ACCOUNTS

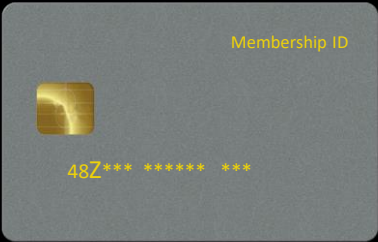
HIS NUMBER PLATE INCLUDED H42W



He was at the gym on 9th of January.



Membership ID starts with 48Z



A MALE



GOLD MEMBER





```

36 -- To find who fits the testament of the first witness
37 SELECT p.id,
38        p.name,
39        d.plate_number,
40        gm.membership_status AS status
41 FROM person AS p
42 JOIN get_fit_now_member AS gm
43 ON p.id = gm.person_id
44 JOIN drivers_license AS d
45 ON p.license_id = d.id
46 WHERE d.plate_number LIKE "%H42W%"
47 AND status = "gold";

```

! id	name	plate_number	status
67318	Jeremy Bowers	0H42W2	gold



IDENTIFYING MATCHES USING KEY POINTS  
TO FIND A SUITABLE SUSPECT

VERIFICATION OF THE GYM ALIBI



```

49 -- To confirm with the second witness testament
50 SELECT gc.membership_id AS member_id,
51        gm.name,
52        gc.check_in_date AS date,
53        gc.check_in_time AS check_in_time,
54        gc.check_out_time AS check_out_time
55 FROM get_fit_now_member AS gm
56 JOIN get_fit_now_check_in AS gc
57 ON gm.id = gc.membership_id
58 WHERE (gm.person_id = 67318 -- jeremy's personal id
59 OR gm.person_id = 16371 -- Annabel's personal id)
60 AND gc.check_in_date = "20180109"
61 ;

```

! member_id	name	date	check_in_time	check_out_time
48Z55	Jeremy Bowers	20180109	1530	1700
90081	Annabel Miller	20180109	1600	1700



All investigation points to only one individual named Jeremy Bowers



```
63 -- To confirm if he was at the Funky grooves tour event on the day of the murder
64 SELECT p.name,
65        p.id AS personal_id,
66        f.event_name,
67        f.date
68 FROM person AS p
69 JOIN facebook_event_checkin AS f
70 ON p.id = f.person_id
71 WHERE personal_id = 67318
72 AND date = "20180115"
73 AND event_name = "The Funky Grooves Tour";
```

name	personal_id	event_name	date
Jeremy Bowers	67318	The Funky Grooves Tour	20180115

The murderer has been found

```
-- To check if he was interviewed and to get his transcript
```

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

His statement reads...

“I was hired by a very rich **woman** 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.**”



## From the suspect's confessions

```
80 -- To get the person that hired jaremy from his transcript
81 SELECT name,
82        p.id,
83        COUNT(*) AS times_event_attended
84 FROM person AS p
85 JOIN facebook_event_checkin AS f
86 ON p.id = f.person_id
87 JOIN drivers_license AS d
88 ON p.license_id = d.id
89 WHERE d.gender = "female" AND -- transcript by gender
90        d.hair_color = "red" AND -- transcript by hair colour
91        f.event_name = "SQL Symphony Concert" AND -- transcript by event name
92        car_model = "Model S" AND -- transcript by car model
93        car_make = "Tesla" AND -- transcript by car make
94        f.date LIKE "201712%" AND -- transcript by date she attended the event
95        d.height BETWEEN 65 AND 67 -- transcript by height
96 ;
```

! name	id	times_event_attended
Miranda Priestly	99716	3



The mastermind is  
Miranda Priestly



## CONCLUSION

The testimonies from the eyewitness played a crucial role in providing the description of the perpetrator.

The perpetrator, **Jeremy Bowers**, has been found and the crime was masterminded by none other than **Miranda Priestly**. The testimonies from both eyewitnesses played a crucial role in providing the description of the perpetrator. Additionally, the transcript from the interview yielded valuable information about the mastermind's involvement. Together, the evidence and investigative efforts led to this incredible conclusion."

## CRIMINAL PROFILE

POLICE



### WANTED FOR MURDER

NAME: JEREMY BOWERS

AGE: 30 YEARS

GENDER: MALE

HEIGHT: 70 in

HAIR COLOR: BROWN

EYE COLOR: BROWN

ANNUAL INCOME: \$10, 500

SOCIAL SECURITY NUMBER: 871539279

NUMBER PLATE: OH42W2

ADDRESS: 530 WASHINTON Pl. Apt. 3A



CRIMINAL PROFILE

POLICE



WANTED FOR MURDER		
NAME: MIRANDA PRIESTLY		
AGE: 68 YEARS	GENDER: FEMALE	
HEIGHT: 66 in	HAIR COLOR: RED	EYE COLOR: GREEN
ANNUAL INCOME: \$310, 000		
SOCIAL SECURITY NUMBER: 987756388		NUMBER PLATE: 500123
ADDRESS: 1883 GOLDEN AVE.		

**MYSTERY SOLVED  
BY  
MONYE OKECHUKWU**