



SQL Murder Mystery

Can you find out who dunnit?
LETS FIND OUT

Week 5 →

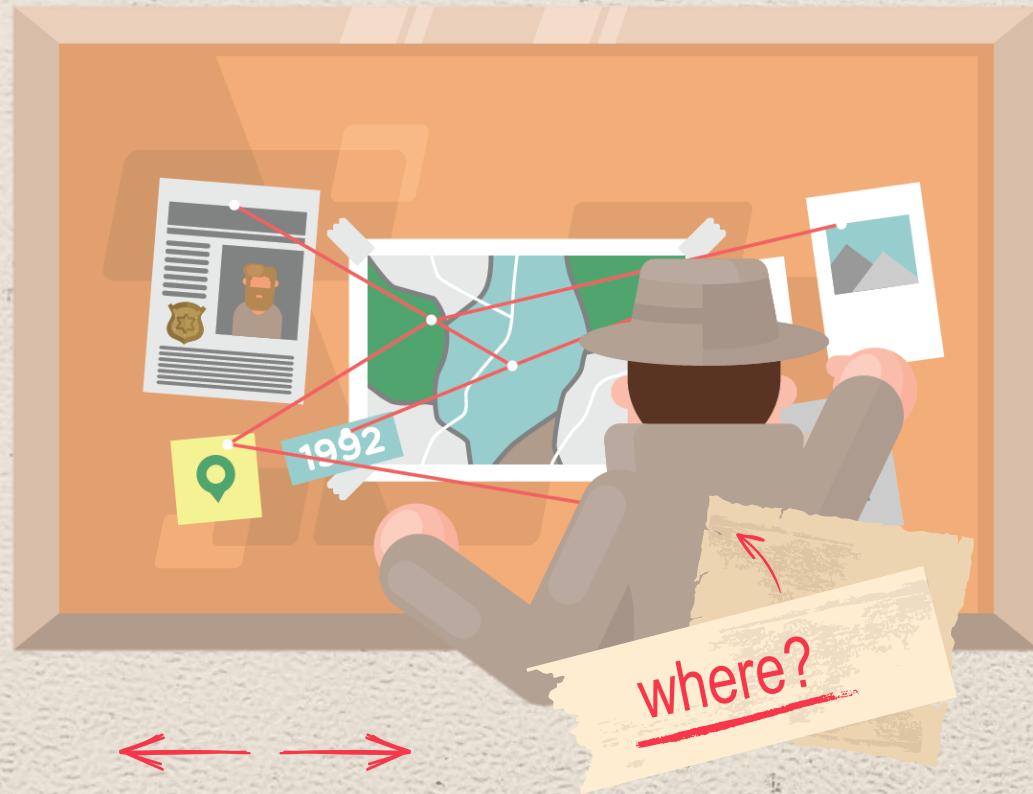
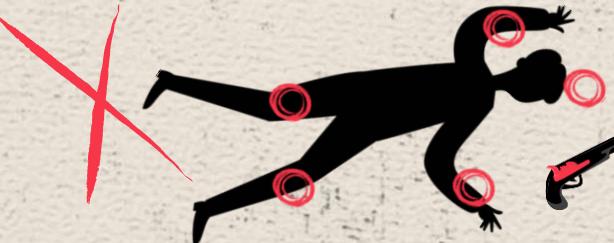
Winter Internship
By Arijit Dhali

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MURDER IN THE CITY

There's been a **Murder 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.



look closer

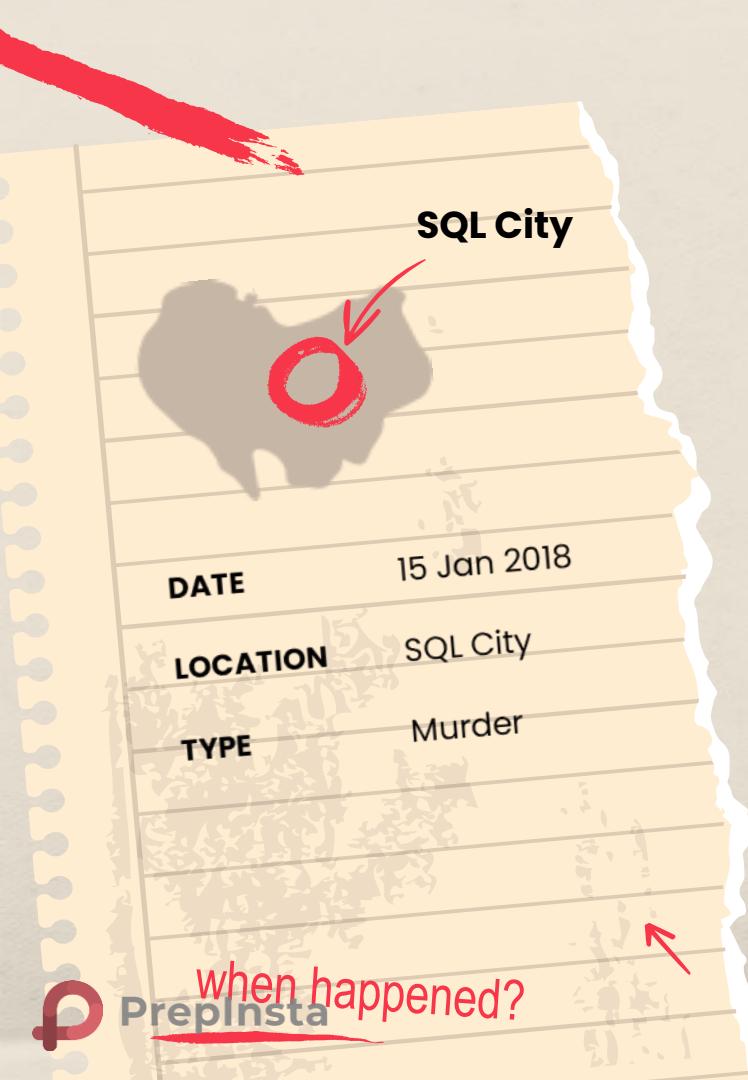
This shows the link between
the files to help us solve the
mystery



SCHEMA OF THE DATABASE

Powered by yFiles

RETRIEVING DATA



MON	TUE	WED	THU	FRI	SAT	SUN
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SOLVING CLUE 1

SQL Query:

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

Result:

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

FINDING WITNESS 1

Security footage shows that there were 2 witnesses.

Witness 1:

Place - Last house on "Northwestern Dr".

SQL Query:

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

Result:

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



FINDING WITNESS 2

Security footage shows that there were 2 witnesses.

Witness 2:

Name - Annabel

Place - Somewhere on "Franklin Ave".

SQL Query:

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

Result:

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



INTERVIEWING WITNESSES

SQL Query:

```
SELECT * FROM interview WHERE person_id IN (14887,16371)
```

Result:

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.

INVESTIGATING WITH CLUE 2



ID 14887 Keynotes :

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

ID 16371 Keynotes :

- Gym Checkin on 9 Jan 2018



SOLVING CLUE 2

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:

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?

JEREMY BOWERS

THE MURDERER

SQL Query:

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

Result:

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.

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.



JEREMY BOWERS
The Murderer

INTERVIEWING JEREMY BOWERS

SQL Query:

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

Result:

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.

FINDING THE MASTERMIND



who was?

Interview Keynotes :

- Gender - Female
- Height - Between 65" and 67"
- Hair - Red
- Car - Tesla Model S
- Concert - SQL Symphony Concert x3 in December

SOLVING CLUE 3

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:

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
99716	Miranda Priestly	202298	1883	Golden Ave	987756388	Tesla	Model S	red	66	310000
99716	Miranda Priestly	202298	1883	Golden Ave	987756388	Tesla	Model S	red	66	310000

High Income



MASTERMIND OF TRUE CRIME

Miranda Priestly

who was?



MIRANDA PRIESTLY

THE MASTERMIND



MIRANDA PRIESTLY
The Mastermind

SQL Query:

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

Result:

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!



CREDITS

The SQL Murder Mystery was created by [Joon Park](#) and [Cathy He](#) while they were Knight Lab fellows. See the [GitHub repository](#) for more information.

Adapted and produced for the web by [Joe Germuska](#).

This mystery was inspired by [a crime in the neighboring Terminal City](#).

Web-based SQL is made possible by [SQL.js](#)

SQL query custom web components created and released to the public domain by Zi Chong Kao, creator of [Select Star SQL](#).

Detective illustration courtesy of [Vectors by Vecteezy](#)

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Preplinsta



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