



MURDER IN THE

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.



Where ..?



MURDER OCCURED

MON	TUE	WED	THU	FRI	SAT	SUN
30	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	1	2	3

DATE

Murder occurred on jan-15th-2018



LET'S FIND.!

SQL Query:

Select * from crime _ scene_ report where date = '20180115' and type = 'murder' and city = 'SQL City'

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



WITHESS 1

Security footage shows that there were 2 witnesses.

The first witness lives at the last house on "Northwestern Dr"

SQL Query:

SELECT *

FROM person

WHERE address_street_name = "Northwestern Dr"

ORDER BY address number DESC

LIMIT 1;



- id name license_id address_number address_street_name 0 14887 Morty Schapiro 118009 4919 Northwestern Dr
- ssn 0 111564949



WITHESS 2

Second witness named "Annabel" lives somewhere on "Franklin Ave"

SQL Query:

Query_2_2 = "

SELECT *

FROM person

WHERE address street name = 'Franklin Ave'

AND name LIKE '%Annabel%';



pd.read_sql_query(Query_2_2,conn)

Result:

id name license_id address_number address_street_name ssn

0 16371 Annabel Miller

490173

103

Franklin Ave 318771143



INTERVIEWING WITNESS

SQL Query:

Query_3 = "

SELECT *

FROM interview

WHERE person_id IN (14887,16371);

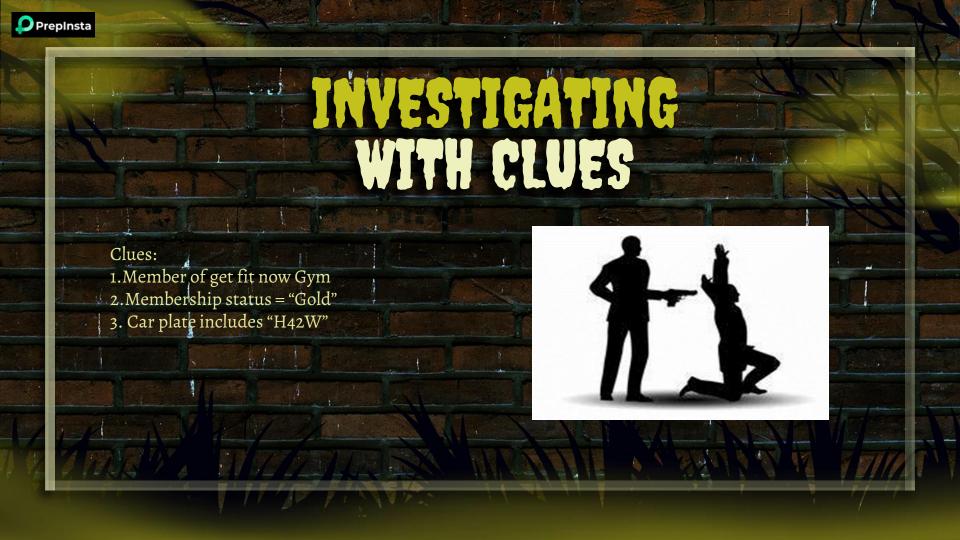
pd.read_sql_query(Query_3, conn)

RESULT:

person_id transcript

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".

I saw the murder happen, and I recognized the killer from my gym when I was working out last week on January the 9th.





CHECK GYM DATABASE

```
SQL Query:
Query_4_1 = ""
SELECT *
FROM get_fit_now_member
WHERE id LIKE '48Z%' AND membership_status = 'gold';
""
pd.read_sql_query(Query_4_1,conn)
```

	id	person_id	name	membership_start_date	membership_status
0	48Z7A	28819	Joe Germuska	20160305	gold
1	48Z55	67318	Jeremy Bowers	20160101	gold



CHECK CAR DETAILS

SQL Query:
Query_5 = "

SELECT *

FROM drivers_license

WHERE plate_number LIKE '%H42W%';

pd.read_sql_query(Query_5,conn)



	id	age	height	eye_color	hair_color	gender	plate_number	car_make	car_model
0	183779	21	65	blue	blonde	female	H42W0X	Toyota	Prius
1	423327	30	70	brown	brown	male	0H42W2	Chevrolet	Spark LS
2	664760	21	71	black	black	male	4H42WR	Nissan	Altima



CHECK FOR PERSONAL DETAILS

```
SQL Query:
Query_6 = ""
SELECT *
FROM person
WHERE license_id IN (183779, 423327, 664760);
""-
```

	id	age	height	eye_color	hair_color	gender	plate_number	car_make	car_model
0	183779	21	65	blue	blonde	female	H42W0X	Toyota	Prius
1	423327	30	70	brown	brown	male	0H42W2	Chevrolet	Spark LS
2	664760	21	71	black	black	male	4H42WR	Nissan	Altima



MEMBERSHIP STATUS AT THE GYM

SQL Query:
Query_7=|""

SELECT *

FROM get_fit_now_member

WHERE person_id IN (51739,67318,78193);

pd.read_sql_query(Query_7,conn)

Result:

id person_id name membership_start_date membership_status

0 48Z55

67318 Je

Jeremy Bowers

20160101

gold



INTERVIEWING JEREMY BOWERS:

SQL Query:

query_8 = "

SELECT *

FROM interview

WHERE person_id = "67318";

111

murderer_transcript = pd.read_sql_query(query_8, conn)

print(murderer_transcript)

Result:

person_id

transcript

0 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.\n





SOLVING LAST CLUE

• SQL Query:

Query_8_2 = "

SELECT p.*, dl.car_make, dl.car_model,dl.hair_color, dl.height

FROM person as p

INNER JOIN drivers_license as dl on dl.id = p.license_id

INNER JOIN facebook_event_checkin as fb_event on p.id = fb_event.person_id

WHERE car_make = 'Tesla' AND car_model = 'Model S' AND hair_color = 'red' AND height

BETWEEN 65 AND 67;



pd.read_sql_query(Query_8_2,conn)

	id	name	license_id	address_number	address_street_name	ssn	car_make	car_model	hair_color	height
0	99716	Miranda Priestly	202298	1883	Golden Ave	987756388	Tesla	Model S	red	66
1	99716	Miranda Priestly	202298	1883	Golden Ave	987756388	Tesla	Model S	red	66
2	99716	Miranda Priestly	202298	1883	Golden Ave	987756388	Tesla	Model S	red	66



