



SQL Murder Mystery

A fun game for experienced SQL users to solve an intriguing crime.

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```
1 SELECT name
2   FROM sqlite_master
3  where type = 'table'
```

name
crime_scene_report
drivers_license
facebook_event_checkin
interview
get_fit_now_member
get_fit_now_check_in
solution
income
person

Run this query to find the names of the tables in this database.

Schema Diagram



```
1 select * from crime_scene_report
2 where date = 20180115 and type = 'murder' and city='SQL City'
3
4
5
6
7
8
```

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

```
1 /*Security footage shows that there were 2 witnesses. The first witness lives at the last
2 house on "Northwestern Dr". The second witness, named Annabel, lives somewhere on
3 "Franklin Ave".*/
4 Select * from person
5 where address_street_name = 'Northwestern Dr'
6 and address_number = (select max(address_number) from person)
7 Union
8 Select * from person
9 where name like "Annabel %"
10 and address_street_name = 'Franklin Ave'
11
```

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id	name	license_id	address_number	address_street_name	ssn
14887	Morty Schapiro	118009	4919	Northwestern Dr	111564949
16371	Annabel Miller	490173	103	Franklin Ave	318771143

```
1 select * from Interview
2 where person_id = 16371 or person_id = 14887
3
4
5
6
7
```

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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.

```

1 /*gunshot, Get fit now membership no. = 48Z% , gold member, car - plate_number = %H42W%
2 16371 is Get fit now member, January 9th */
3
4 select get_fit_now_member.id, get_fit_now_member.person_id, get_fit_now_member.name,
5 get_fit_now_check_in.check_in_date, get_fit_now_check_in.check_in_time,
6 get_fit_now_check_in.check_out_time, get_fit_now_member.membership_status
7 from get_fit_now_member join get_fit_now_check_in
8 on get_fit_now_member.id = get_fit_now_check_in.membership_id
9 where get_fit_now_member.id like '48Z%' and get_fit_now_check_in.check_in_date = 20180109
10
11 /*There are two members whose membership_id starts with '48Z', with gold status
12 and check_in_date = 201808109.*/
13

```

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d	person_id	name	check_in_date	check_in_time	check_out_time	membership_status
48Z7A	28819	Joe Germuska	20180109	1600	1730	gold
48Z55	67318	Jeremy Bowers	20180109	1530	1700	gold


```
1 /*gunshot, Get fit now membership no. = 48Z% , gold member, car - plate_number = %H42W%
2 16371 is Get fit now member, January 9th */
3
4 /*There are two members whose membership_id starts with '48Z', with gold status
5 and check_in_date = 201808109.*/
6
7 select drivers_license.id, drivers_license.plate_number, person.name, person.id as person_id,
8 from drivers_license join person
9 on drivers_license.id = person.license_id
10 where plate_number like '%H42W%'
11
```

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id	plate_number	name	person_id	ssn
664760	4H42WR	Tushar Chandra	51739	137882671
423327	0H42W2	Jeremy Bowers	67318	871539279
183779	H42W0X	Maxine Whitely	78193	137882671

```
1 /*gunshot, Get fit now membership no. = 48Z% , gold member, car - plate_number = %H42W%
2 16371 is Get fit now member, January 9th */
3
4 /*There are two members with person_id in (28819, 67318) whose membership_id starts with '48Z'
5 and check_in_date = 201808109.*/
6
7 select drivers_license.id, drivers_license.plate_number, person.name, person.id as person_id,
8 from drivers_license join person
9 on drivers_license.id = person.license_id
10 where plate_number like '%H42W%' and person.id in (28819, 67318)
11
12 /*Therefore, we got the killer, check the Interview table to know what he told to police
13
```

RUN ↴

RESET

id	plate_number	name	person_id	ssn
423327	0H42W2	Jeremy Bowers	67318	871539279

```
1 /*Therefore, we got the killer, check the Interview table to know what he told to police*/
2 select * from interview
3 where person_id = 67318
```

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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.

```

1 /*He was hired by a women - female, 5'5"(65") or 5'7"(67"), red hair, drives Tesla Model S,
2 attended SQL Symphony Concert 3 times in Dec 2017*/
3 select * from person
4 join drivers_license
5 on drivers_license.id = person.license_id
6 join income
7 on person.ssn = income.ssn
8 where hair_color = 'red' and gender = 'female' and car_make= 'Tesla' and car_model='Model S'
9 /* There are two women with this Details*/

```

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id	name	license_id	address_number	address_street_name	ssn	id	age	height
78881	Red Korb	918773	107	Camerata Dr	961388910	918773	48	65
99716	Miranda Priestly	202298	1883	Golden Ave	987756388	202298	68	66



```

1 /*He was hired by a women - female, 5'5"(65") or 5'7"(67"), red hair, drives Tesla Model S,
2 attended SQL Symphony Concert 3 times in Dec 2017*/
3 select person.id as person_id, person.name, income.annual_income, drivers_license.hair_color,
4 drivers_license.car_make, drivers_license.car_model, facebook_event_checkin.event_name,
5 facebook_event_checkin.date
6 from person
7 join drivers_license
8 on drivers_license.id = person.license_id
9 join income
10 on person.ssn = income.ssn
11 /*As killer said, she attended SQL Symphony Concert 3 times in December 2017*/
12 join facebook_event_checkin
13 on facebook_event_checkin.person_id = person.id
14 where hair_color = 'red' and gender = 'female' and car_make= 'Tesla' and car_model='Model S'

```

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person_id	name	annual_income	hair_color	car_make	car_model	event_name	date
99716	Miranda Priestly	310000	red	Tesla	Model S	SQL Symphony Concert	20171206
99716	Miranda Priestly	310000	red	Tesla	Model S	SQL Symphony Concert	20171212
99716	Miranda Priestly	310000	red	Tesla	Model S	SQL Symphony Concert	20171229

Check your solution

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!