**MURDER MYSTERY CASE**

*A crime has taken place and the detective needs your help. The detective gave you the crime scene report, but you somehow lost it. You vaguely remember that the crime was a****​murder​****that occurred sometime on ​****Jan.15, 2018​****and that it took place in ​****SQL City​****.*

select description

from crime\_scene\_report

where type='murder' and date ='20180115' and city ='SQL City'

| **description** |
| --- |
| 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". |

select \*

from person

where address\_street\_name Like 'Northw%'

order by address\_number desc

limit 1

| **id** | **name** | **license\_id** | **address\_number** | **address\_street\_name** | **ssn** |
| --- | --- | --- | --- | --- | --- |
| 14887 | Morty Schapiro | 118009 | 4919 | Northwestern Dr | 111564949 |

We get to know that our 1st witness who lives in Northwestern Dr his name is Morty Schapiro and his id is 14887

select \*

from person

where name like 'Annabel%' And address\_street\_name Like 'Frank%'

| **id** | **name** | **license\_id** | **address\_number** | **address\_street\_name** | **ssn** |
| --- | --- | --- | --- | --- | --- |
| 16371 | Annabel Miller | 490173 | 103 | Franklin Ave | 318771143 |

We got the id of 2nd witness which is Annabel Miller and her id is 16371

select transcript

from interview

where person\_id= 16371

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

This query taught us that Annabel saw the murder happen and she confirmed that killer is a gym member and who came in on 9th January 2018.

select transcript

from interview

where person\_id= 14887

| **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". |

This query confirms that the killer is a gym member, a **gold member**. Morty also gives us a murder weapon: a **gun**, a partial membership number: ‘**48Z**’, and license plate: ‘**H42W**’. Finally, we now know that the killer is **male**. Our investigation is leading us to the gym

select membership\_id

from get\_fit\_now\_check\_in

where check\_in\_date= '20180109' and membership\_id like '48Z%'

| **membership\_id** |
| --- |
| 48Z7A |
| 48Z55 |

Two members with ids starting with ‘48Z’ checked-in on January 9th. We can use information from the get\_fit\_now\_member table to narrow down our list of suspects.

select P.name, D.plate\_number

from person as P

join drivers\_license as D

on P.license\_id = D.id

where P.name like'Joe G%' or P.name like'Jeremy Bow%'

| **name** | **plate\_number** |
| --- | --- |
| Jeremy Bowers | 0H42W2 |

Check your solution

**Did you find the killer?**

Top of Form

**INSERT** **INTO** solution **VALUES** (1, 'Jeremy Bowers')

**SELECT** value **FROM** solution;Bottom of Form

| **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. |

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Mastermind of Murder Mystery

SELECT Transcript

from interview

where person\_id = '67318'

| **transcript** |
| --- |
| 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. |

Jeremy gave the information about their boss. she is a **female**, between **65"** and **67"**, with **red hair**and a **Tesla Model S**. We also know she attended the **SQL Symphony Concert 3 times in December 2017**.

SELECT p.name,d.height,d.car\_make,d.hair\_color,d.car\_model,d.gender

from drivers\_license as d

join person as p

on d.id= p.license\_id

where d.height between 65 and 67 and d.hair\_color='red' and d.gender='female'

and car\_make='Tesla' and car\_model='Model S'

and p.id in (select f.person\_id

from facebook\_event\_checkin as f

where f.event\_name like 'SQL Symphony Conc%')

| **name** | **height** | **car\_make** | **hair\_color** | **car\_model** | **gender** |
| --- | --- | --- | --- | --- | --- |
| Miranda Priestly | 66 | Tesla | red | Model S | female |

**Did you find the killer?**

Top of Form

**INSERT** **INTO** solution **VALUES** (1, 'Miranda Priestly');

**SELECT** value **FROM** solution;

| **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! |

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