First Check the crime report to find information on the murder.

SELECT \* FROM crime\_scene\_report

WHERE type = 'murder' and date = 20180115 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 | |  |  |

I used the ORDER BY keyword along with DESC to sort through addresses on Northwestern Dr since a name wasn’t provided and found Morty Schapiro as the witness.

SELECT \* FROM person

WHERE address\_street\_name = 'Northwestern Dr'

Order by address\_number desc

| **id** | | **name** | | **license\_id** | | **address\_number** | | **address\_street\_name** | | **ssn** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14887 | Morty Schapiro | | 118009 | | 4919 | | Northwestern Dr | | 111564949 | |
| 17729 | Lasonya Wildey | | 439686 | | 3824 | | Northwestern Dr | | 917817122 | |
| 53890 | Sophie Tiberio | | 957671 | | 3755 | | Northwestern Dr | | 442830147 | |

SELECT \* FROM person

WHERE address\_street\_name = 'Franklin Ave' and name like '%Ann%'

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

I took the id numbers and ran a query in the interview table

SELECT \* FROM interview

WHERE person\_id = 16371

| **person\_id** | | **transcript** |
| --- | --- | --- |
| 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. | |

SELECT \* FROM interview

| **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". | |

WHERE person\_id = 14887

from both statements we deducted that the killer is a Get Fit Now member

I ran a query in the get fit now member table with the information from our witness

SELECT \* FROM get\_fit\_now\_member

WHERE id like '%48z%'

| **id** | **person\_id** | **name** | **membership\_start\_date** | **membership\_status** |
| --- | --- | --- | --- | --- |
| 48Z38 | 49550 | Tomas Baisley | 20170203 | silver |
| 48Z7A | 28819 | Joe Germuska | 20160305 | gold |
| 48Z55 | 67318 | Jeremy Bowers | 20160101 | gold |

The witness Statement said our killer had a bag that was only given to gold members so we have two gold members with the ID starting with 48Z

SELECT \* FROM person

WHERE id = 28819

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 28819 | Joe Germuska | 173289 | 111 | Fisk Rd | 138909730 |

| **id** | **name** | **license\_id** | **address\_number** | **address\_street\_name** | **ssn** |
| --- | --- | --- | --- | --- | --- |

SELECT \* FROM person

WHERE id = 67318

| **id** | **name** | **license\_id** | **address\_number** | **address\_street\_name** | **ssn** |
| --- | --- | --- | --- | --- | --- |
| 67318 | Jeremy Bowers | 423327 | 530 | Washington Pl, Apt 3A | 871539279 |
|  |  |  |  |  |  |

We have to find the suspects car all we have is a license plate

I ran a query in the person table to find their license first and then ran a query in the drivers license table using their DL number and found Jeremy had a license plate close to the one given by the witness.

SELECT \*

FROM drivers\_license

WHERE id = 423327

| **id** | **age** | **height** | **eye\_color** | **hair\_color** | **gender** | **plate\_number** | **car\_make** | **car\_model** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 423327 | 30 | 70 | brown | brown | male | 0H42W2 | Chevrolet | Spark LS |

I attempted the same for the id number 173289, but there was no records.

I ran another query in the interview table for id 67318

And received further information for our investigation

SELECT \*

FROM interview

WHERE person\_id = 67318

| **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. |

Ran a query in the events table to find attendees for the SQL Symphony concert having attended 3 times in December

SELECT person\_id, count(person\_id) as attendance , event\_name,

FROM facebook\_event\_checkin

WHERE event\_name = 'SQL Symphony Concert'and date like '%201712%'

GROUP BY person\_id

HAVING count(person\_id) > 2

| **person\_id** | **Attendance** | **event\_name** |
| --- | --- | --- |
| 24556 | 3 | SQL Symphony Concert |
| 99716 | 3 | SQL Symphony Concer |
|  |  |  |

I ran the following Query to find a match for females driving a tesla model S between the heights of 65 and 67

SELECT \*

FROM drivers\_license

WHERE car\_make = 'Tesla'

GROUP BY height

having height between 65 and 67

| **id** | **age** | **gender** | **hair\_color** | **height** | **car\_make** | **car\_model** |
| --- | --- | --- | --- | --- | --- | --- |
| 918773 | 48 | female | red | 65 | Tesla | Model S |
| 291182 | 65 | female | red | 66 | Tesla | Model S |

I ran another query in the person table to find out the names and id’s of our suspects

SELECT \*

FROM person

where license\_id = 918773 or license\_id = 291182

| **id** | **name** | **license\_id** | **address\_number** | **address\_street\_name** | **ssn** |
| --- | --- | --- | --- | --- | --- |
| 78881 | Red Korb | 918773 | 107 | Camerata Dr | 961388910 |
| 90700 | Regina George | 291182 | 332 | Maple Ave | 337169072 |

I didn’t quite find a match so I edited my original query to be a bit more broad in the drivers\_license table

SELECT \*

FROM drivers\_license

WHERE car\_make = 'Tesla' and hair\_color = 'red'

| **id** | **age** | **height** | **eye\_color** | **hair\_color** | **gender** | **plate\_number** | **car\_make** | **car\_model** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 202298 | 68 | 66 | green | red | female | 500123 | Tesla | Model S |
| 291182 | 65 | 66 | blue | red | female | 08CM64 | Tesla | Model S |
| 736081 | 79 | 69 | brown | red | male | GCAQ6Y | Tesla | Model S |
| 918773 | 48 | 65 | black | red | female | 917UU3 | Tesla | Model S |

SELECT \* FROM person where id = 99716

| **id** | **name** | **license\_id** | **address\_number** | **address\_street\_name** | **ssn** |
| --- | --- | --- | --- | --- | --- |
| 99716 | Miranda Priestly | 202298 | 1883 | Golden Ave | 987756388 |

SELECT \* FROM drivers\_license

where id = 202298

| **id** | **age** | **height** | **eye\_color** | **hair\_color** | **gender** | **plate\_number** | **car\_make** | **car\_model** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 202298 | 68 | 66 | green | red | female | 500123 | Tesla | Model S |

After review it was clear that Miranda Priestly was the master mind behind the Murder in SQL City.

She attended the SQL Symphony 3 time in December 2017, she owns a Tesla Model S and she has red hair between the heigh of 65” and 67”

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! |

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​. Start by retrieving the corresponding crime scene report from the police department’s database.