```
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4
5    /* Solving SQL murder mistery */
6    select * from crime_scene_report
7    Where city=='SQL City' and type='murder' --used data is jan 15, 2018
8
9    -- output: Security footage shows that there were 2 witnesses.
10   --The first witness lives at the last house on "Northwestern Dr".
11   --The second witness, named Annabel, lives somewhere on "Franklin Ave".
12
13   -- So right now I have two witness, I will look for both of them and get complete
     information about them.
14   --Information of first witness
15   select * from person
16   where name like 'Annabel%' and address_street_name='Franklin Ave'
17
18   --output:
19   --persons name: Annabel Miller
20   --Id: 16371
21   --license_id:490173
22   --address_number:103
23   --address_street_name:Franklin Ave
24
25   select * FROM get_fit_now_member g  JOIN person p ON (g.person_id=p.id)
26   Where g.name='Annabel Miller'
27
28   --output
29   -- (get fit) id: 90081
30   -- (get fit) membership_start_date: 20160208
31   -- (get fit) membership_status: gold
32   -- (get fit) ssn: 318771143
33
34   -- Now since we do have complete information about first witness, lets try to get more
     information about the second withness
35   -- for the second witness, we don't know his name, but we do know that he lives in the
     last house of Northwestern Dr.
36   -- so what we can do is we can look for the peoples living in the Northwestern Dr and
     look for the name who live last in that Dr.
37
38   select * from person
39   Where address_street_name='Northwestern Dr'
40   order by address_number desc -- this will give me the last house in 'Northwestern Dr'
41   limit 1 --to see exectly that persons info only
42
43   --Information about second withness
44   --id: 14887
45   --name: Morty Schapiro
46   --license_id: 118009
47   --  address_number: 4919
48   --address_street_name
49   -- Northwestern Dr
50   --ssn: 111564949
51
52   -- NOw sicne we have the information of both of our witness, from the metadata what we
     can look for is their interview
53   -- We do have their interview in interview table in transcript text format, lets retrive
     it and know what they say about crime scene
54
55   -- 1st witness interview
56   select transcript, p.name FROM interview i  JOIN person p ON (i.person_id=p.id) join
     get_fit_now_member g  ON (g.person_id=p.id)
57   where p.name like '%Annabel%'
58
59   --output
60   -- Witness 1st Annabel Miller says
61   -- 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.
```

```sql
-- 2nd witness interview
select name, transcript FROM interview i  JOIN person p ON (i.person_id=p.id)
Where name like '%Morty Schapiro'

--output
-- Witness 2nd Morty Schapiro says
-- 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".

-- SO NOW WE HAVE THE BASIC IDEA OF THE POSSIBLE CRIMINAL: 1)member of get fit now gym
--2) membership starts with '48Z' 3) is a gold member 4) criminals no. plate has 'H42W'

--To CONTINUE our investigation, we look for the gym member who has gold membership and
their id stats with '48Z'
-- We found we possible criminal name for Now
select * from get_fit_now_member
where id like '%48Z%' and membership_status='gold'

--1st possible suspect
--id:48Z7A
--person_id: 28819
--name: Joe Germuska
--membership_start_date: 20160305
--membership_status: gold

-- 2nd Possible suspect
--id:48Z55
--person_id: 67318
--name: Jeremy Bowers
--membership_start_date: 20160101
--membership_status: gold

-- NOW TO MOVE FORWARD IN OUR investigation WE NEED TO LOOK FOR THESE TWO POSSIBLE
suspect WHICH HAS THE CAR WITH NUMBER plate
-- HAVING 'h42W'

--befor that we need their person id, because the id we do have now is a get fit now id.
To get person id of these two suspect we
--use following code
select name,id from person
where name in ('Joe Germuska','Jeremy Bowers')

--output
--Joe Germuska id:28819
--Jeremy Bowers id:67318

--now since we do have their id, lets look for the number plate

select name as Criminal_name FROM person p  JOIN drivers_license d ON (d.id=p.license_id)
where p.id in ('28819','67318') and plate_number like '%h42W%'

-- output: Jeremy Bowers :- is a CRIMINAL

--Now when we check the criminal name, we found out that we are CORRECT and Jeremy
Bowers is the murderer.

-- Plot twist: though Jeremy Bowers is the murderer, but there is someone else behind
planning the murder and now our task is to find The
-- Main villain of the Plan.
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